

**Web Based Wedding Hall Management
System
For
Loyolas Wedding Hall, Jaffna**

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**This dissertation is submitted in partial fulfilment of the requirement of the
Degree of Bachelor of Information Technology (external) of the
University of Colombo School of Computing**

DECLARATION

DECLARATION

I certify that this dissertation does not incorporate, without acknowledgement, any material previously submitted for a Degree or Diploma in any University and to the best of my knowledge and belief, it does not contain any material previously published or written by another person or myself except where due reference is made in the text. I also hereby give consent for my dissertation, if accepted, to be made available for photocopying and for inter-library loans, and for the title and summary to be made available to outside organizations.

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ABSTRACT

A wedding is a ceremony and associated rituals by which two people vow to spend their lives together in marriage. It is the most important event in everyone life. As people spend lots of money and time on weddings, but they involve their selves in each and every affair in such a way that at the end of the day they feel that they have not seen the wedding of their only Son/Daughter or they have not been able to enjoy the functions. These problems are solved by wedding halls. There are many halls in Jaffna district. ‘Loyolas Wedding Hall ‘is one of the most popular wedding hall in Jaffna town. It was started on 2001. This wedding hall maintains that processes in manually, but now– a– days in the modern world people like save their precious time and they wish their works done through the online. In the competitive business world, Loyolas Wedding Hall also wants to change their system to online to attract the people.

The web based wedding hall management system act as a bridge between potential users and wedding planners. Web based Loyolas wedding hall management system facilitate not only booking wedding hall but also booking beautician, photographer, videographer and select beautician packages, video packages, meals packages etc. So customer can select suitable one from many options as their wish. This system generates many reports according to the user’s wish. Customers don't want to wait until the office open. They using an online booking system means that the business is open 24 hours a day, seven days a week from anywhere. The system will provide efficient, effective and timely services.

This web based wedding hall management system has mostly been developed using some modern tools and software. PHP which is a powerful server side scripting language has been used for server side scripting along with the Wamp server and MySQL which is a relational database management system. This combination ensures a high portability to develop the system. The system was testing by client with sample data and all modules were tested and also various type of users were login and test the system based on user privilege.

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LIST OF ACRONYMS

1NF / 2NF / 3NF - First / Second / Third Normal Form

Ajax - Asynchronous JavaScript Technology and XML

CSS - Cascading Style Sheets

DBMS - Database Management Systems

ER - Entity Relationship

GB - Gigabyte

GUI - Graphical User Interface

HTML - Hyper Text Markup Language

PHP - Hypertext Pre-processor

PK - Primary Key RAD

RAD - Rapid Application Development

RAM - Random Access Memory

RUP - Rational Unified Process

SMS - Short Message Service

SQL - Structured Query Language

UAT - User Acceptance Testing

URL - Uniform Resource Locator

WAN - Wide Area Network

XML - Extensible Mark-up Language

CHAPTER 01 : INTRODUCTION

Loyolas wedding hall is one of the famous wedding hall in Jaffna district. It was started on 2001. Many people in Jaffna choose this wedding hall due to several reasons such as the iconic location, eye catching decorations and many facilities from the wedding hall. Weddings, receptions, birthday parties, puberty ceremonies and other functions are celebrating here. There are three separate halls, so three functions can be held at the same time. Air-conditioned hall and non-air condition hall also here. Decorations are done according to the customers wish.

Loyolas wedding hall is using a manual system to handle the processes. If a customer want booking, he/she wants come to the office and the details are recorded in a file and those files are stored in a special cabinet. Calculations of bills and inventory items are done by manually too. The web based wedding hall management system will be covering all the basic processes done in the wedding hall. It would handle Staff details, customer details, hall booking details, beautician booking details, meals booking details, price details, payment calculations etc.

All the above mentioned details and information are stored in the system database. It could save time when retrieving data from the database. Interfaces will be designed user friendly and the functions will be displayed in a simple manner. The system will give remedies for the problems that are currently facing by the client. Shifting the new system can acquire advantages such as saving of time, man hours and space wastage. This will increase the efficiency in wedding hall daily activities.

1.1 Motivation for project

Everyone knows that in order to make their wedding day special they'll need to make a few important decisions along the way. Among the biggest choices they'll have to make is picking the right wedding venue. Some years ago in Jaffna, most weddings and other functions held in their homes, but now – a – days in this stylish world they wish to celebrate their functions in a wedding hall.

Now, there are many wedding halls in Jaffna district. Loyalas Wedding Hall is one of the most popular halls in Jaffna town. It was started on 2001. This hall has three

different types of hall like air conditioned or Normal hall with different decorations. It has many facilities like wedding hall, catering service, rooms, Photography, video, photo location, Make ups, wedding things like bouquet and etc.

Even though in the competitive world, this wedding hall is running their all activities as manual. This manual system face more problems like take more time, take travelling cost, paper wastages, take more space, inefficient and etc.

In present customer want to visit to office for making booking, they visit and get basic details of hall, meal, price, package, payment method and etc, then customer booked for hall clerk want to check hall is available or not on that booking date after that customer make procedure to booking and package details. All those details such as customer details, booking details, payment details and package details are maintain in papers. The staff salary details were calculated manually based on basic salary, duty times, EPF and ETF and paid to staff by cash. And also they have not proper web site to publish their details via web so if want any details want to visit directly and get details from office.

If any have a business and don't have a website, they are losing out on great opportunities for their business. A website itself can be used to accomplish many different marketing strategies to help business grow. So the wedding hall wish to change that system as computer based information system. From this it can give that services any time and from anywhere. So they decided web based information system is very suitable for this wedding hall system.

So those drawbacks and their manual facing problems are motivated to give solution through the web based, through the web based wedding hall system they provide efficient, effective and timely services from anywhere and anytime. This system shows their facilities with prices. So customer can get online booking facility as their wish.

1.2 Objectives of the project

The objectives of this project listed below:

- ❖ The management can able to manage their details and prices of hall, beautician packages, meals packages, decoration, photography, staff, customer and etc.

- ❖ The system allows the user or member to perform service enquiry including service booking, service availability status, service details...etc.
- ❖ The customers can search hall, beautician and their packages, meals packages, decoration style, meals service, Photography and packages etc. as their wish.
- ❖ System has provided the user to register in order to be a member of the website. User is then granted privileges to book or cancels services.
- ❖ The customer can able to find the details of prices and search free dates for booking and make their booking through this system and can able to reserve hall and other facilities.
- ❖ Calculate the bill automatically based on booked hall, meal and video package and other facilities details and generate and print the bill.
- ❖ Customer can able to pay the money by ez-cash or bank or cash.
- ❖ The system facilitates to send alert messages to customer through system regarding booking, confirm and pending payment details.
- ❖ The management can able to generate reports in various categories such as booking or payment or salary or package in various type such as day or month or year wise.
- ❖ It is a graphical user interface and user friendly system, so management and customers can work with easily and also it reduces time for training.
- ❖ This is a cost effective system, because the application can be accessed from anywhere with used of computer with low memory and low processing power.

1.3 Scope

The scope of the web based project is to provide an efficient and effective system to Loyals Wedding Hall, Jaffna to handle the day-to-day activities such as hall, wedding car, catering service, decoration, photography and etc., as well as manage their staff details, salary details, booking details, payment details and etc. as worldwide business and generating the report as easy. And also customer can able to search the details of Loyals's facilities and other details and make book through web from their residence.

1.4 Structure of the dissertation

The dissertation contains many main chapters. After the Introduction chapter, the Analysis chapter describes the existing system, functional requirements, non-functional requirements, resource requirements, feasibility study and literature review for the this system and the process model used to develop the system. The Design chapter includes some diagrams relating to the system design. It further describes the designing approach used and designing of the data base as well as the user interfaces and it describes models and methodologies, alternative solutions etc. Implementation chapter provides the system implementation of this project including defining how the information system should be built, ensuring that the information system is operational and used, and also ensuring that the information system meets quality standard. In Evaluation chapter, we give evaluation of the project work. Finally, Conclusion chapter concludes this project work with a discussion of our findings towards and future extensions.

After the main chapters there is a reference section where all the materials referred to write the dissertation are given. Furthermore in the appendices, system documentation, design documentation, user documentation, management reports, test results, code listing and the client certificate are given. Finally, a glossary of terms annexed

CHAPTER 02 : ANALYSIS

2.1 Introduction

System analysis [1] is a method of figuring out the basic elements of a project and deciding how to combine them in the best way to solve a problem. This chapter is written to give an overview of the existing system as well as the fact gathering techniques and collected functional, non-functional requirements. Requirements collection and analysis is very important procedure for a project's success. Therefore significant amount of time and effort were put in this chapter. The main processes of this phase include domain understanding, requirements collection, classification, structuring, prioritization and validation. Suitable collective methods and procedures were engaged to carry out the analysis phase in an effective way.

2.2 Existing manual system

As we are new to this domain, a domain analysis was carried out through certain fact gathering techniques, and consulting domain experts in the domain's own terminology. At present about 25 employees are working here. The administration has to maintain the booking details and other details as paper based by hand. They are preparing the reports manually. The Users (customers) make booking manually.

As the current system is a file based one, management of the wedding hall has to put much effort on securing those files. They can be easily get damaged by a fire, insects or even by a natural disaster like tsunami. Keeping files takes much time and wastes precious man hours. Although can't trust the accuracy of calculations done by manually. If management wants to check for previous booking record or other details, management will be in a great problem. It's a tough and time taking process to search for a record in a file.

Most of the activities are not fully updated with new technologies and best practices. Some activities are carried out by partial computer processing using Microsoft Office – Excel & Access by operational users. The existing system was studied carefully to get better understanding. Major consideration has been given here to recognize each function in detail manner.

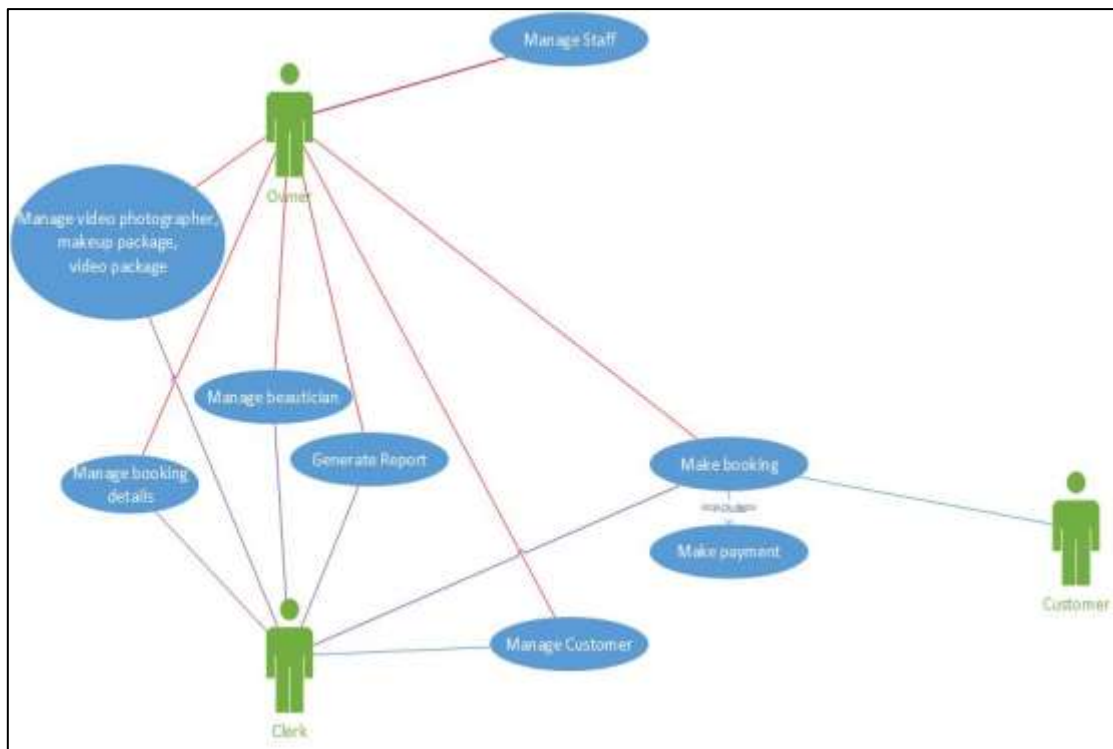


Figure 2.1 Use case diagram for existing manual system

2.2.1 Drawbacks of existing manual system

- ❖ Data duplication can be occurred by repeating the same thing over and over.
- ❖ Lack of security.
- ❖ Lack of storage common errors.
- ❖ Too much paper wastage. Paper takes up a massive amount of room in the site.
- ❖ Poor Data Storage - All the data stored in filing cabinets.
- ❖ Data could be misplaced due to human error.
- ❖ Data could be stolen very easily.
- ❖ Unavailability of Information.
- ❖ Slow Retrieval data.
- ❖ Manual systems staff spends a lot of their time on mechanical, clerical tasks.

2.3 Similar System

In order to understand the concepts and procedures of a wedding hall management system, some similar systems are available to study and research.

Aradana Hotel & Wedding hall

Aradana hotel & wedding hall [3] is situated in Baddegama Road, Pathana, Hikkaduwa, Srilanka. It is using a web based wedding hall management system which includes Graphical User Interfaces. It includes hotels, services, menus, gallery, Prices and contact us details. There are three reception halls of Aradana Group of Hotels - Aradana, Cinnamon Breeze, and Green Shadow - are the best places that can select as that special place for event.

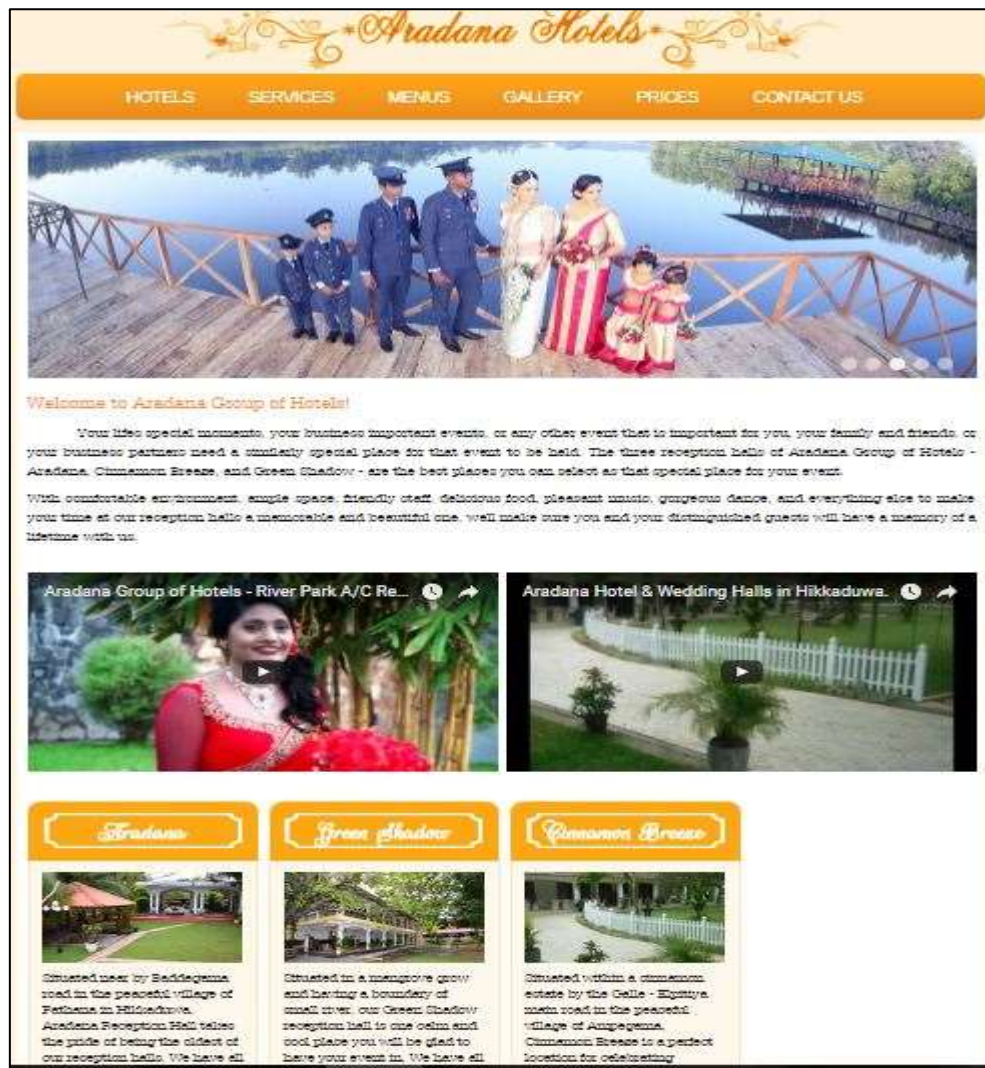


Figure 2.2 Aradana hotel & wedding hall

Soulmate celebration

Soulmate Celebration [4] Wedding Ceremonies is a professional wedding officiant service that has been part of the Rhode Island and nearby Massachusetts wedding

industry since 2009. This wedding hall website facilitate to customer in many ways. It includes all that services.



Figure 2.3 Soulmate celebration wedding officiants

Royal palace banquet hall

Royal palace[5] has been serving Glendale, Pasadena, Burbank, Sherman Oaks, North Hollywood and neighboring cities since 1995. The ballroom has served as one of the most volatile venues with its spacious room, lighting and furniture. Throughout the years Royal palace has enjoyed being a part of all their customers' celebration. It is a full service banquet and catering company.



Figure 2.4 Royal Palace banquet hall

2.4 Information gathering techniques

Multiple techniques were used here to capture requirements from different stakeholder perspectives. The main methods used for fact finding process were;

- ❖ Interview
- ❖ Observation
- ❖ Document review and scenarios
- ❖ Site visit

Facts were primarily gathered by interviewing the administrator who is the primary user of the this system. Additional knowledge needed to complete analysis, was discovered through observation and through gathering sample material such as booking registration forms.

Combinations of close-ended and open-ended interviews were conducted. These methods helped to prompt new questions related to the existing problems during interviews. It can be considered beneficial, when we intend to acquire more knowledge and understanding about the domain.

Observation was carried out to collect implicit information which plays a critical role in the system. Relevant documents and paper work of the existing manual system were analyzed and studied through a sampling process.

The captured facts were represented as scenarios and Use-Case diagrams to give a clear picture on basic requirements and interaction sessions of the system, which can be understood by both technical and non-technical personnel.

2.4.1 Functional requirements

A functional requirement [2] defines a function of a system or its component. A function is described as a set of inputs, the behavior, and outputs. In summery here are the functional requirements for the system as identified through the Analysis phrase.

- ❖ System should provide the user to register in order to be a member of the website. User is then granted privileges to book or cancels services.
- ❖ The system should allow the user or member to perform service enquiry including service booking, service availability status, service details...etc.

- ❖ The customers should search hall, beautician and their packages, meals packages, decoration style, catering service, Photography and their packages and etc. as their wish.
- ❖ The management should able to manage their details and prices of hall, beautician packages, meals packages, decoration, photography and etc.
- ❖ The customer should able to find the details of prices.
- ❖ The customer should search free dates for booking and make their booking through this system.
- ❖ Customer should able to reserve hall and other facilities.
- ❖ Customer should able to pay money in online.
- ❖ The management should able to get reports in various categories such as day or month or year wise.
- ❖ The system should facilitate to send alert messages to customer through system.
- ❖ Users should calculate the bill automatically and print the bill.

2.4.2 Non-functional requirements

Accuracy and Consistency

These are very important non-functional requirements that should be considered when storing the details of booking, staffs, and customers and calculating the amount and generate reports.

Security

There should be superior security mechanisms since the system stores very confidential information such as details of customer of the wedding hall.

Usability

Usability should be very much important in this project when developing the user profiles to the customers and administration. It wants to be handling very easy.

Reliability

This is a non-functional requirement of the system users. There should be trustworthiness between the users and the system.

2.4.3 Resource requirements

Hardware requirements

- ❖ Pentium 4 Computer
- ❖ Printer
- ❖ Internet facility
- ❖ Hosting and Domain

Software requirements

For Development

- ❖ Windows Operating System
- ❖ WampServer (PHP 5.4.12, MySQL 5.6.12, Apache 2.4.4)
- ❖ Adobe Dreamweaver CS5.5
- ❖ Adobe Photoshop css5
- ❖ CSS
- ❖ JavaScript
- ❖ Ajax
- ❖ MS Word

For Implementation

- ❖ Windows Operating System
- ❖ Browsers

CHAPTER 03:DESIGN OF SOLUTION

3.1 Introduction

“Systems design [6] is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements” . There are a lot of approaches for system designing, however the most widely used methods are the Object Oriented Design methods.”

3.2 Models and methodologies

A process model is a modelling methodology followed throughout the development. Iterative process model was chosen to develop this system. This is where small portions of software are developed to uncover important issues early, before problems or faulty assumptions can lead to disaster. Although there are many process models; RUP (Rational Unified Process) model was chosen over other models like prototyping model, waterfall model, Rapid Application Development.

The waterfall model [7] is a sequential approach, where each fundamental activity of a process represented as a separate phase, arranged in linear order . In the waterfall model, you must plan and schedule all of the activities before starting working on them (plan-driven process). The phases of the waterfall model are Requirements, Design, Implementation, Testing, and Maintenance. In principle, the result of each phase is one or more documents that should be approved and the next phase shouldn't be started until the previous phase has completely been finished.

The spiral model [7] is a risk-driven where the process is represented as spiral rather than a sequence of activities. It was designed to include the best features from the waterfall and prototyping models, and introduces a new component; risk-assessment . Each loop (from review till service—see figure below) in the spiral represents a phase. Thus the first loop might be concerned with system feasibility; the next loop might be concerned with the requirements definition, the next loop with system design, and so on.

A prototype [7] is a version of a system or part of the system that's developed quickly to check the customer's requirements or feasibility of some design decisions. So, a prototype is useful when a customer or developer is not sure of the requirements, or of algorithms, efficiency, business rules, response time, etc. In prototyping, the client is involved throughout the development process, which increases the likelihood of client acceptance of the final implementation. The prototype model is shown in the following Figure 3.1

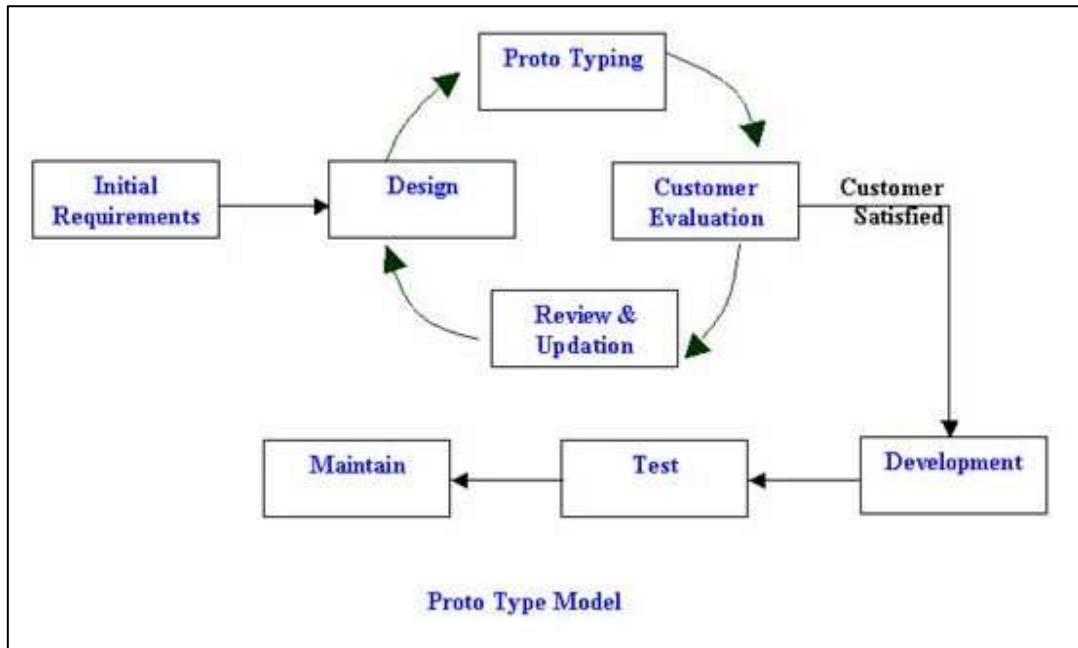


Figure 3.1 Prototyping model

3.3 Alternative Solutions

In software development all the system basically divided into three categories that are standalone, network based and web based system. Compare the web based wedding hall management system is; developing a standalone system or network system for the management. Table 3.1 shows the differences between windows based, web based and network based system.

| | Windows based | Web based | Network |
|----------------------|---------------|-----------|---------------|
| User Access | One | Unlimited | Limited group |
| Access from anywhere | × | Unlimited | Limited |
| Security | Less | High | More |
| Sharing facility | × | High | More |

Table 3.1 Alternative solution

The standalone system most suitable for run with in small area using personal computers and work stations, so the standalone application run only a specific environment. The network based application usually developed for Local Area Network (LAN). In network based, application is loaded on server machine while the application exe on every client machine. The web application is accessed over a network connection using HTTP. Application is loaded on the server whose location may or may not be known and no exe is installed on the client machine, you have to test it on different web browser.

In this system users access the system from various places and customer make order from their places, management want to implement the database in centralized and access from various places, various type of user will access the system there for according to the above Table 3.1 web based is the best choice to develop wedding hall management system. Because management can maintain the details and generate reports and also customers can booking from anywhere. And their details also will be secure.

3.4 Process design

In the process design, it includes database design, application and architecture design and interface design.

3.4.1 Database design

Database design [8] is the process of producing a detailed data model of database. This data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be used to create a database. A fully attributed data model contains detailed attributes for each entity.

The following is a brief description of the 1st, 2nd and 3rd Normal Forms.

1st Normal Form – A relation is in 1NF if the values in the relation are atomic for every attribute in the relation.

2nd Normal Form – A relation is in 2NF if no non key attribute is functionally depended on just a part of the key. Thus 2NF can only be violated only when a key is a composite key.

3rd Normal Form – A non-key attribute should not be functionally depended on another non key attribute.

The goals of database design are as follows,

- ❖ A database should provide for efficient storage, update, and retrieval of data.
- ❖ A database should be reliable – the stored data should have high integrity to promote user trust in the data.
- ❖ A database should be adaptable and scalable to new and unforeseen requirements and applications.
- ❖ A database should support the business requirement of the information system.

ER diagram for the system is shown in the Figure 3.2; this diagram was generating from MySQL Workbench 6.0.8 CE software:

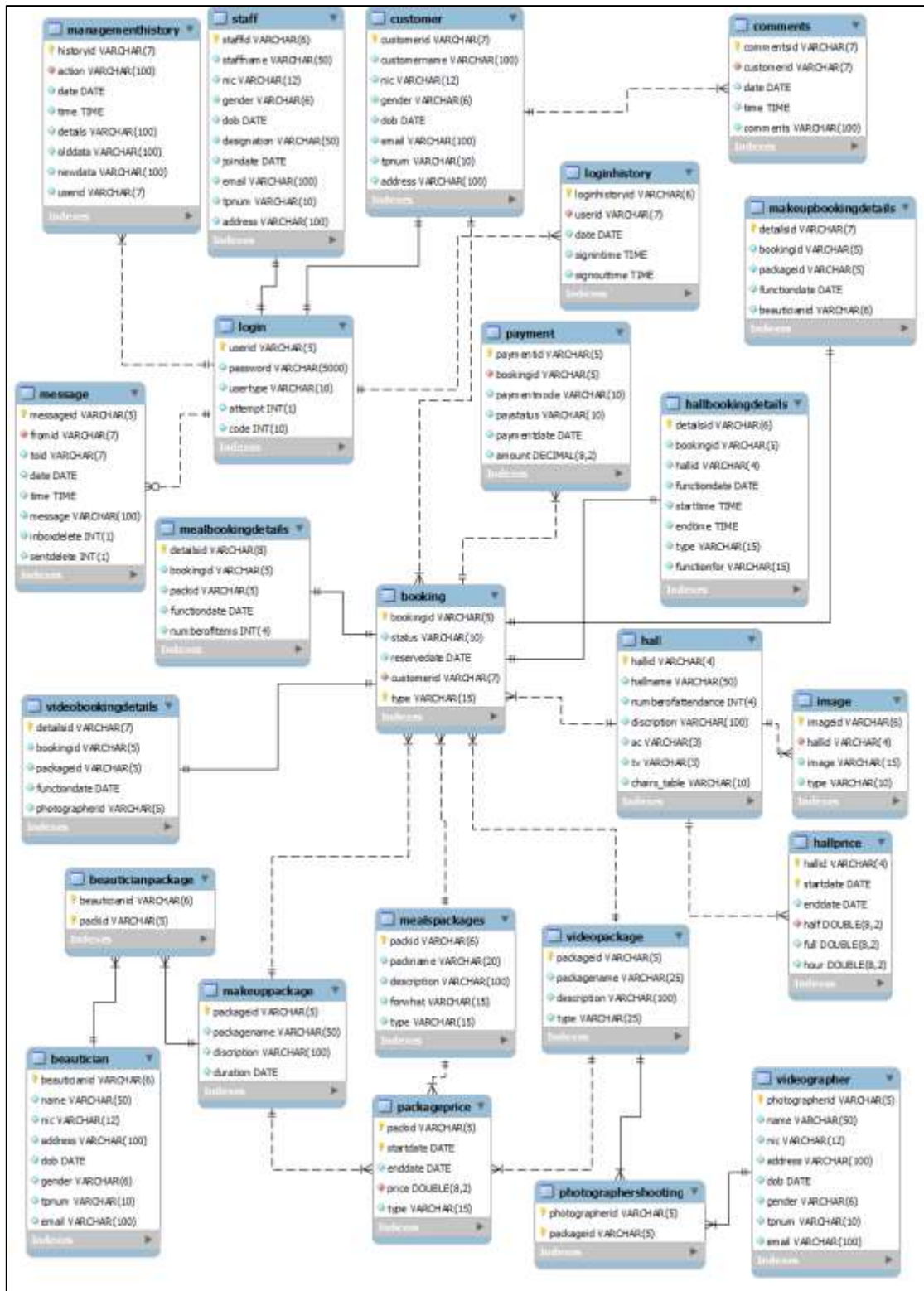


Figure 3.2 ER Diagram

3.4.2 Application and architecture design

The application and architecture design [9] of a system pertains to an abstract representation of the data flows, inputs and outputs of the system.

Use case diagram

Use case diagrams [10] are usually referred to as behavior diagrams used to describe a set of actions (use cases) that some system or systems (subject) should or can perform in collaboration with one or more external users of the system (actors). Each use case should provide some observable and valuable result to the actors or other stakeholders of the system. The following Figure 3.3 shows use case diagram for the system.

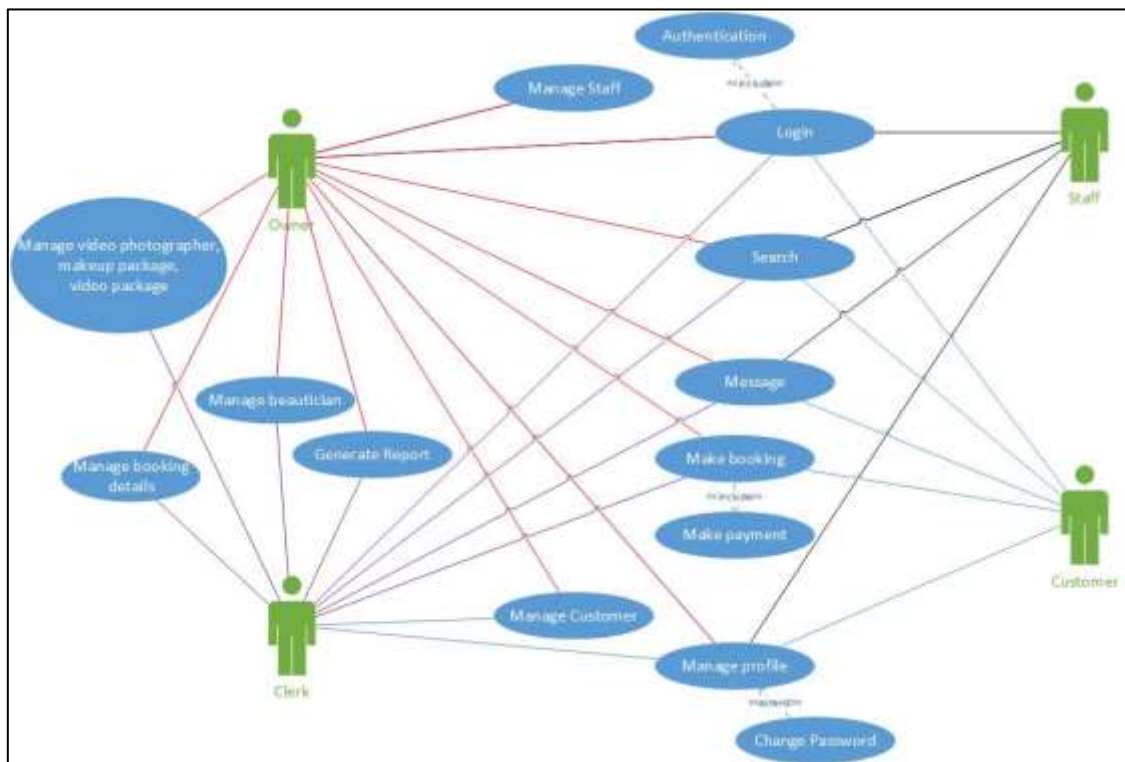


Figure 3.3 Usecase diagram for the system

Use case scenario

| | |
|--------------|--|
| Use case: | Search |
| Actor: | Owner, Clerk, Staff and Customer |
| Description: | All users can search something from anywhere |

Table 3.2 Search use case scenario

| | |
|-----------|--------------|
| Use case: | Manage staff |
| Actor: | Owner |

| | |
|--------------|---|
| Description: | Owner will manage staff details like salary |
|--------------|---|

Table 3.3 Manage staff use case scenario

| | |
|--------------|---|
| Use case: | Login |
| Actor: | Owner, Clerk, Staff and Customer |
| Description: | It will work user name & password are correct |

Table 3.4 Login use case scenario

Class diagram

In software engineering, a class diagram [11] in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects. The following Figure 3.4 shows class diagram for the system.

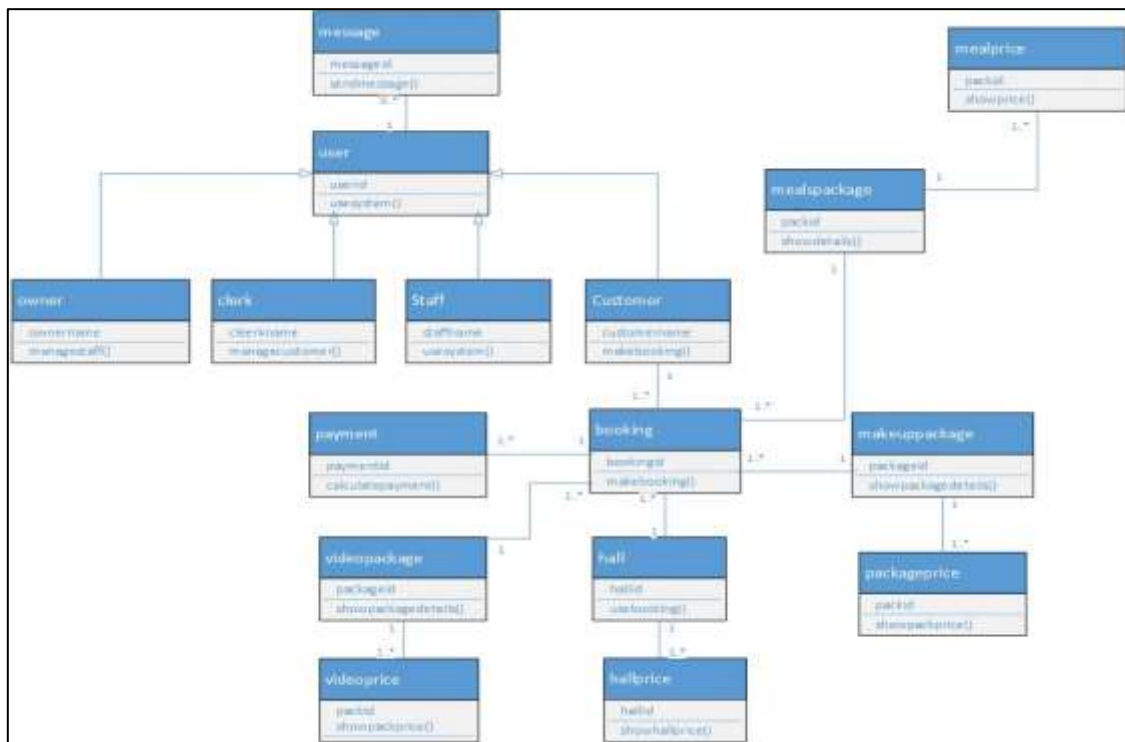


Figure 3.4 Class diagram for the system

Sequence diagram

A sequence diagram [12] is an interaction diagram that shows how objects operate with one another and in what order. A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios. A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner. The following Figure 3.5 shows sequence diagram for booking.

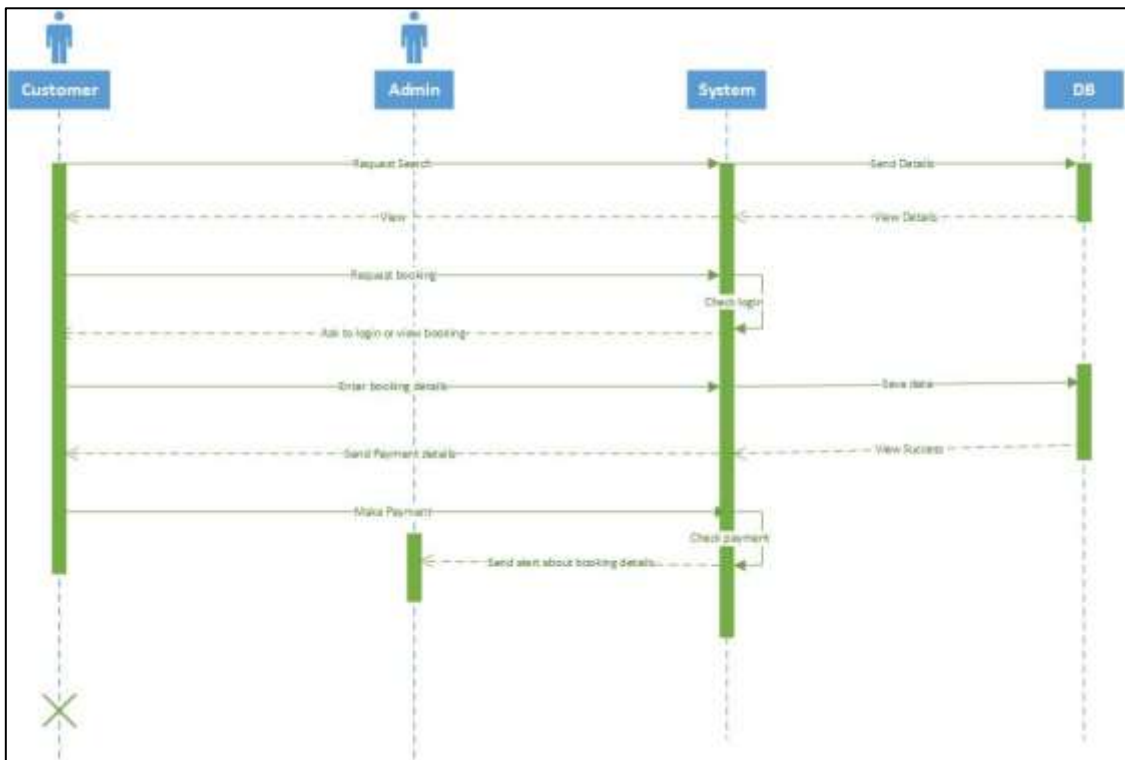


Figure 3.5 Sequence diagram for booking

Activity diagram

Activity diagram [13] is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. The control flow is drawn from one operation to another. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all type of flow control by using different elements such as fork, join, etc. The following Figure 3.6 shows activity diagram for register.

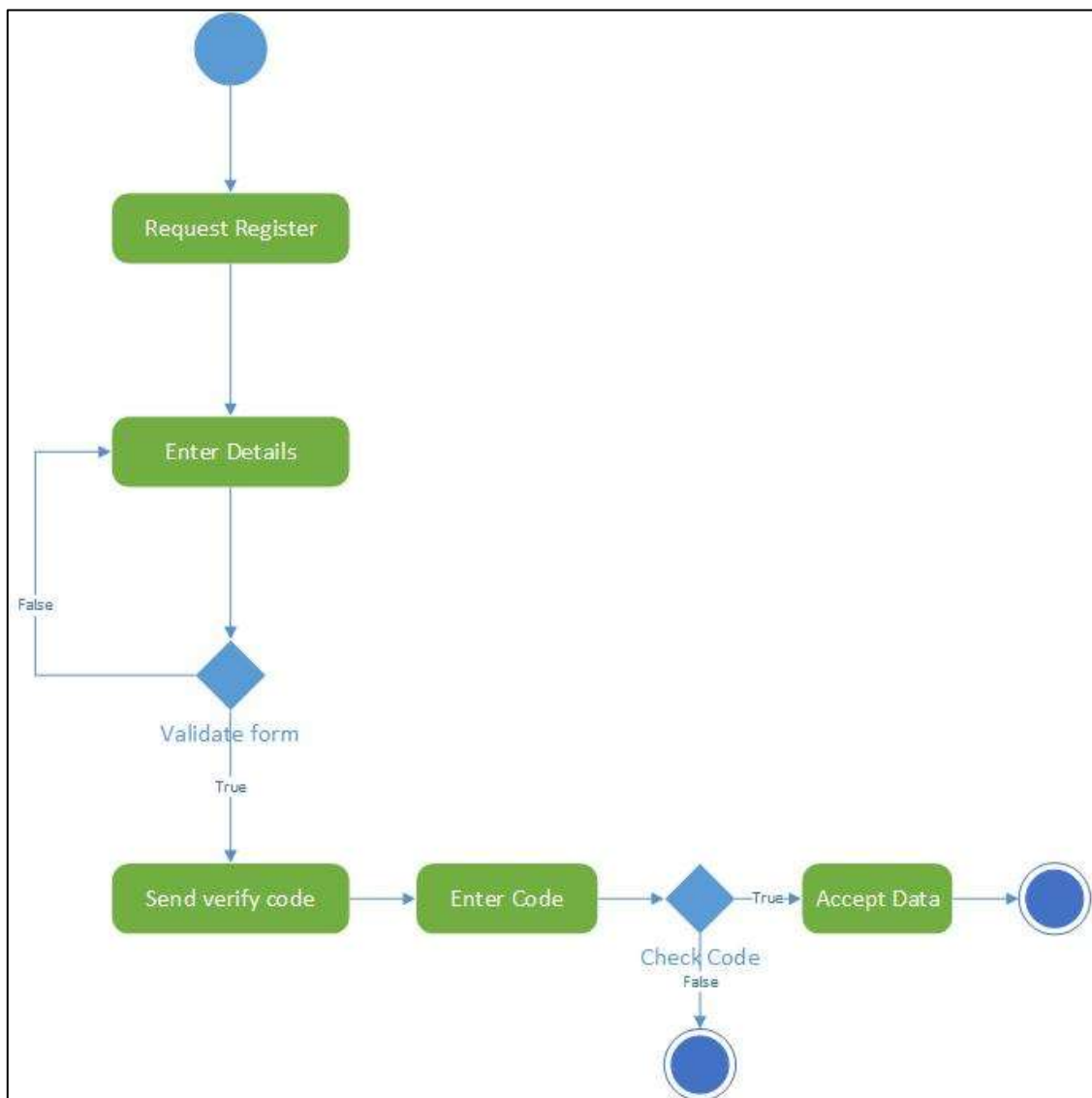


Figure 3.6 Register activity diagram

3.4.3 User interface design

This document provides a main few interface to display State wedding hall management system of Loyolas interface structure. Other interface designs are listed in Appendix.

Login interface

The Figure 3.7 shows the login page which is the initial interface of the system. This is a common user interface for all the user categories. Any authorized user can log in using their user names and valid passwords. Any errors regarding the user login will be displayed via meaningful error messages.

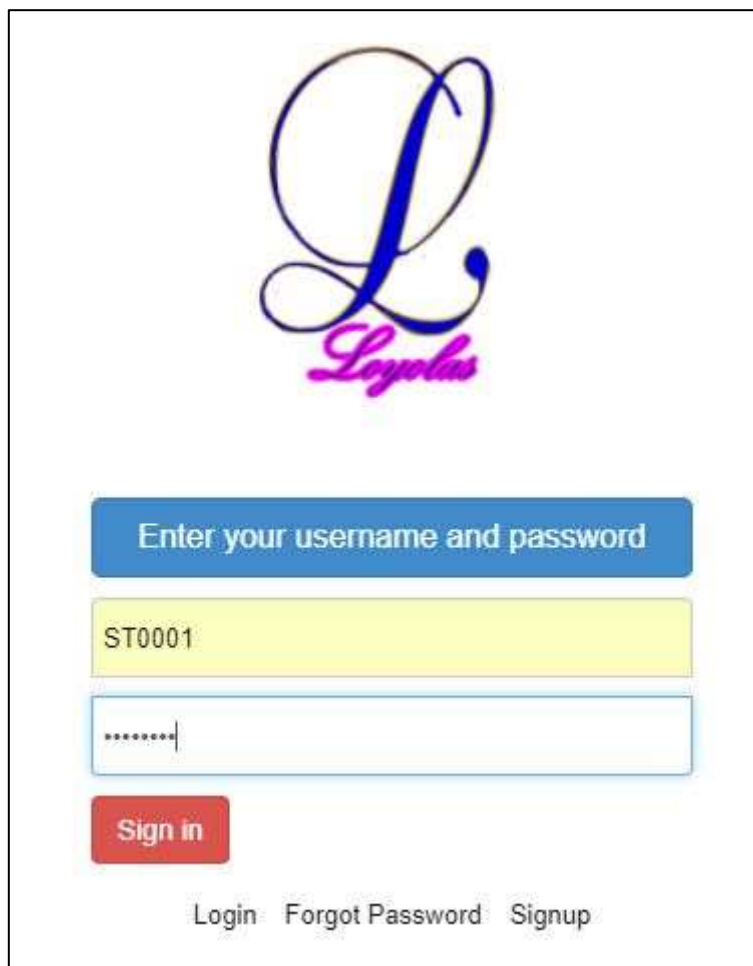


Figure 3.7 Login interface

Home Page

The homepage provides all the links and the menu bar to let the user to navigate easily through the system, also it shows the all hall details, facilities and galleries. The

owner's home page is given below since he only has the permission to access all the modules. Figure 3.8 illustrates owner's home page.

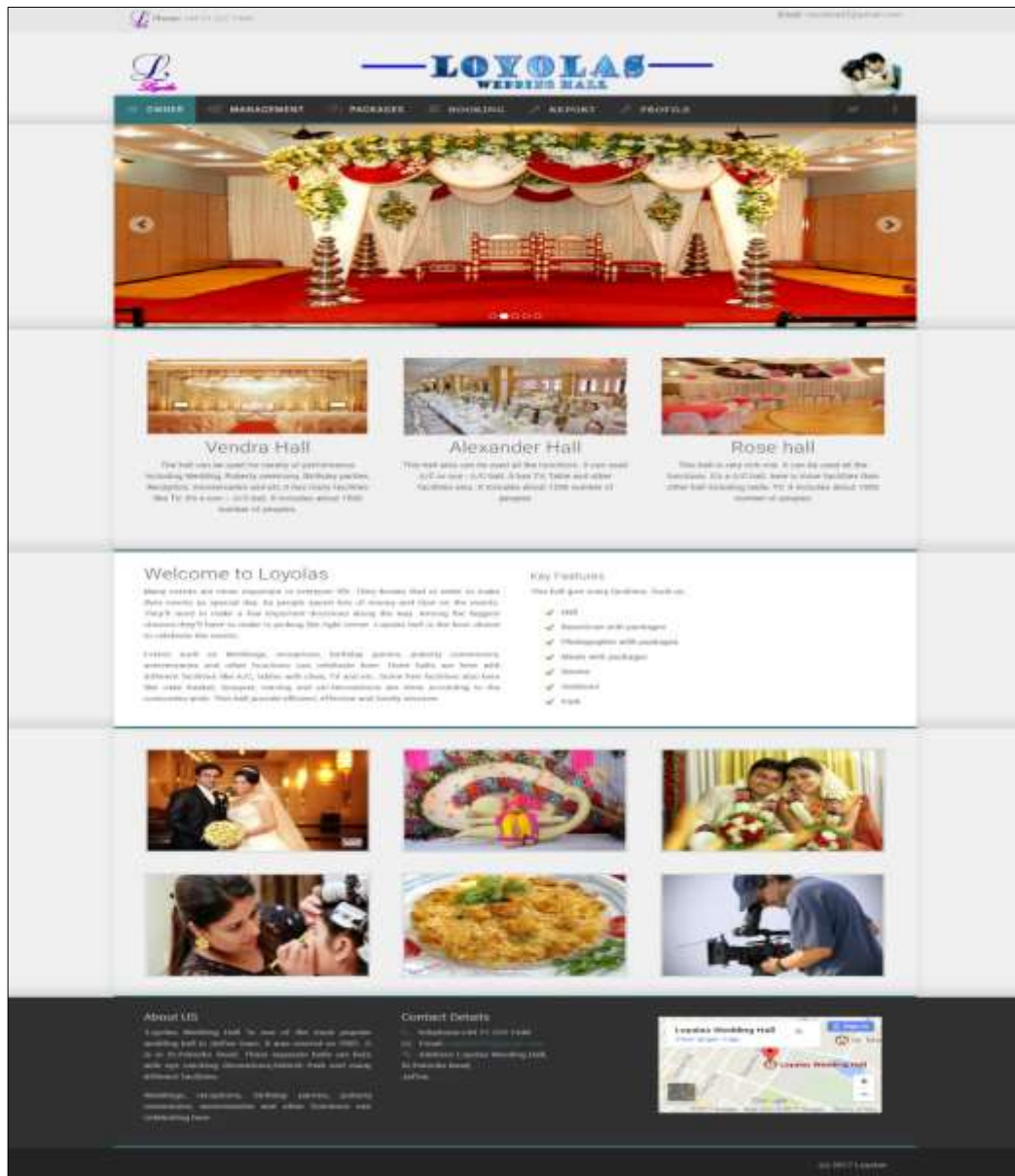


Figure 3.8 Owner's home page

Beautician data entry form

The system has input/update forms for each module units, similar one to the beautician data entry form . This form has text, number, NIC number, email validations and Date of Birth calculation. Figure 3.9 shows beautician data entry form.

| Beautician New | |
|---|---------------------|
| Beautician ID | BE0005 |
| Name | S.Harisca |
| NIC Number | 925726854V |
| Address | Annaikkodai |
| Date of Birth | 12/03/1992 |
| Gender | Female |
| Telephone Number | 0775845632 |
| E_mail | harisca34@gmail.com |
| <input type="button" value="Go Back"/> <input type="button" value="Reset"/> <input type="button" value="Submit"/> | |

Figure 3.9 Beautician data entry form

Videographer details edit interface

Figure 3.10 shows edit interface of videographer. Here Photographer ID could not change and gender and Date of birth will be automatically changed when Change NIC number. Other details, can change as our wish. After change data then want to click Save changes button.

Videographer Edit

| | |
|------------------|-----------------|
| Photographer ID | VP004 |
| Name | Meshark |
| NIC No | 910161234V |
| Address | Kokuvil |
| Date of Birth | 16/01/1991 |
| Gender | Male |
| Telephone Number | 0774589632 |
| E-mail | mesh2@gmail.com |

Go Back Reset Save Changes

Figure 3.10 Videographer edit interface

Hall details view interface

Figure 3.11 shows all details of hall, that we have entered already in the hall data entry form. From this form, can view in full, Edit details and delete data.

Hall View

+ Add New Hall

10 records per page Search

| Hall ID | Hall Name | Number of attendance | Description | Action |
|---------|-----------|----------------------|---------------------------------------|---|
| H001 | Vendra | 1500 | Decorate according to customers' wish | View Edit Delete |
| H002 | Alexander | 1200 | Decorate according to customers' wish | View Edit Delete |
| H003 | Rose | 1000 | Decorate according to customers' wish | View Edit Delete |

Figure 3.11 Hall details view interface

Report generation

The system lets the user to filter data in a given range of dates, and view reports. Figure 3.12 shows report of staffs.

| Start Date | | 2000-01-01 | | | | | | | |
|------------|-------------|--------------|-----------|---------------|-------------|------------|----------------------|------------------|------------------------------|
| End Date | | 2017-10-31 | | | | | | | |
| Staff Id | Staff Name | NIC Number | Gender Id | Date of Birth | Designation | Join Date | Email | Telephone Number | Address |
| ST0001 | Loyola | 722601892V | Male | 1972-09-16 | Owner | 2000-09-01 | loyola0405@gmail.com | 777352055 | St.Patricks road,,Jaffna |
| ST0002 | Jeni | 825091234V | Female | 1982-01-09 | Clerk | 2005-07-08 | jeni05@gmail.com | 775692145 | Rajendra road, Jaffna |
| ST0003 | Harry | 900011234V | Male | 1990-01-01 | Staff | 2010-11-11 | harry@gmail.com | 771234567 | Manipay |
| ST0004 | Paul | 832304321V | Male | 1983-08-17 | Staff | 2017-08-01 | paul@gmail.com | 775436101 | Jaffna |
| ST0005 | Kapil | 921564789V | Male | 1992-06-04 | Staff | 2017-08-02 | kapil@gmail.com | 715698524 | Araly |
| ST0006 | Nimal | 197425904589 | Male | 1974-09-15 | Staff | 2014-07-06 | | 765489521 | Suthumalai, East, Suthumalai |
| ST0007 | Malarvizhi | 847601892V | Female | 1984-09-16 | Staff | 2012-05-06 | vizhimalar@gmail.com | 778956231 | Kalviyankaadu, Jaffna |
| ST0011 | Anunkumar | 893201479V | Male | 1989-11-15 | Staff | 2017-01-06 | sarun213@gmail.com | 765896541 | Main street, Jaffna |
| ST0012 | Kalyankumar | 741254783V | Male | 1974-05-04 | Staff | 2009-08-30 | kalyan54@yahoo.com | 778956421 | Kasthuriyar road, Jaffna |
| ST0013 | Gajan | 751475689V | Male | 1975-05-26 | Staff | 2007-05-06 | gajan23@yahoo.com | 778953215 | Temple road, Jaffna |

Figure 3.12 Staff details report

CHAPTER 04 : IMPLEMENTATION

Implementation is the process of converting the system specification into an executable system. Design and implementation processes transform the specification (as explained in the analysis and design chapters) to an executable program, which are, most of the time interleaved.

A familiarized language and appropriate tools were chosen in the process of development and coding. The codes were written and arranged in a readable and understandable format, along with comments, hoping to produce a software that will be maintainable in the future.

4.1 Implementation environment

Some important aspects were taken into consideration when finalizing the implementation environment. When selecting the development software, most of them were free and open source which won't cause much trouble when getting the copyrights of the system. Some of these technologies are targeted at a specific application domain (e.g., Web-site design and implementation); others focus on a technology domain (e.g., object-oriented systems). The following components were used in the implementation environment.

| Hardware | Software |
|---|--|
| <ul style="list-style-type: none">♣ Pentium 4 computer or more.♣ Basic Printer for report printing | <ul style="list-style-type: none">♣ Operating System♣ Browser♣ Notepad++♣ WAMP Server 2.4<ul style="list-style-type: none">PHP 5.4.12Apache 2.4.4MySQL 5.6.12 |

Table 4.1 Implementation environment

Although this system was developed on a Windows 10 Home Premium computer. It is fully compatible with the Windows XP, Windows Vista, and Windows 8. It is also compatible with Linux systems such as Ubuntu, Fedora and Red Hat.

Other development tools

- ♣ GIMP – for create headings and image retouching.
- ♣ DoPDF– for PDF creation.
- ♣ Xara web style – For Label, button creation

Technologies

- ♣ PHP (Hypertext Pre Processor) was the main development language used to develop the main system and its logics.
- ♣ MySQL was used to handle all the development related to the database.
- ♣ XHTML was used to build the base Interfaces of the system.
- ♣ CSS was used to make the plain XHTML interfaces more attractive and user friendly, which also decided the look and feel of the system.
- ♣ JavaScript was used to code all the client-side validation.
- ♣ AJAX which is based on JavaScript was used to get data from the server without refreshing it repetitively.
- ♣ JQuery which is also based on JavaScript was used to implement the pre-coded time picker module, transition effect for the login and simple password meter.

4.2 Code and module structures

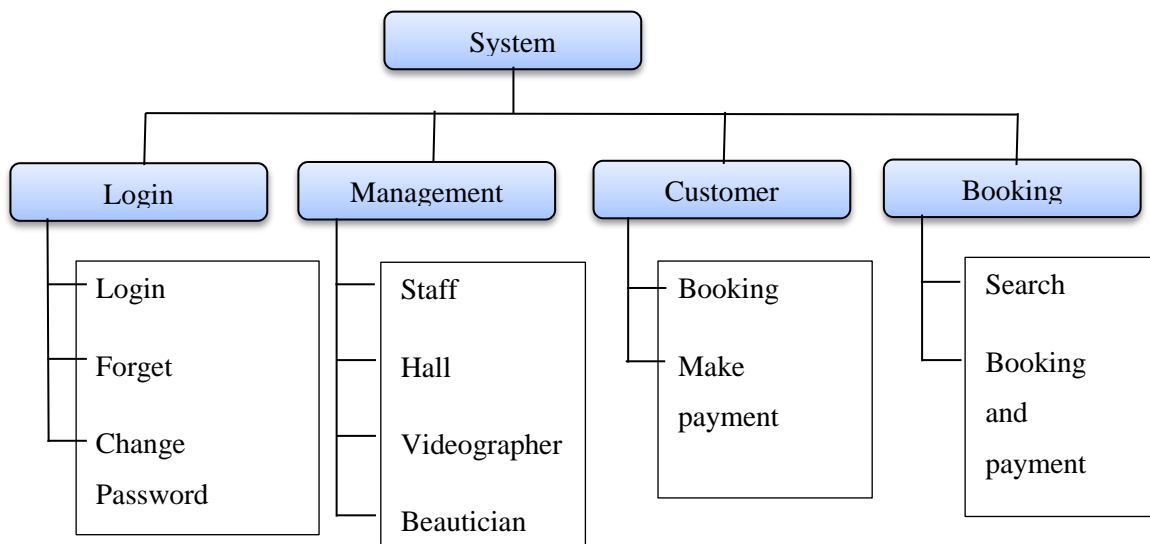


Figure 4.1 Code and Module

In this system modules are divided into four major categories such as login, management, customer and booking.

Login

Login module allow the user in this system if user name and password are correct, if isn't it will not allow to the system. If anyone forgot their password, then they can use the forgot password option, it leads to the recover option. Through this they can get their password from mobile phone. When enter personal data NIC number sets as default password, if anyone wants to change their password, then they can select change password option.

Management

Management is another module of this system. It includes staff management, Hall management, Videographer management and beautician management. It considers enter, edit and delete staff, hall, videographer and beautician details. These can manage only owner and clerk.

Customer

Customer can register their details and make booking hall, videographer, beautician and meals from various selection of option. They can get the prices, images and other details of hall, videographer, beautician and meals from this system and can make payments through online.

Booking

Customers can access this system through their username and password and can get information through searching. And make booking as their wish. They want to pay advance first. If they want to confirm or cancel their booking, they want to inform before one week.

4.3 Reuse existing codes

Habitat [14] is free web template that available in web for free, anyone can download from web for free charge. This template only used for table, form and user interface design of this system.

4.4 List of coding

Data base connection coding

```
<?php
$con=mysql_connect("localhost","root","");
if(!$con)
{
die("Server connection error");
}
$db=mysql_select_db("loyolas");
if(!$db)
{
die("Database error");
}
?>
```

In this coding mysql_connect used to connect with server and mysql_select_db is used to connect with database in that server.

Login coding

```
if (!isset($_SESSION))
{
session_start();
}
date_default_timezone_set("Asia/Colombo");
include("connection.php");
if(isset($_POST["btnsubmit"]))
{
$username=$_POST["txtusername"];
$password=$_POST["txtpassword"];
$sqlusername="SELECT * FROM login WHERE userid='".$username'";
$resultusername=mysql_query($sqlusername) or die("sql error in
sqlusername".mysql_error());
if(mysql_num_rows($resultusername)>0)
{
$sqlpassword="SELECT * FROM login WHERE userid='".$username' AND
password='".$password'";
```

```

$resultpassword=mysql_query($sqlpassword) or die("sql error in
sqlpassword".mysql_error());
$rowusername=mysql_fetch_assoc($resultusername);
if(mysql_num_rows($resultpassword)>0)
{
    $_SESSION["username"]=$enterusername;
    $_SESSION["usertype"]=$rowusername["usertype"];
    $sqlupdate="UPDATE login SET attempt=0 WHERE userid='$enterusername'";
    $resultupdate=mysql_query($sqlupdate) or die ("sql error in
sqlupdate".mysql_error());
    $sqlloginhistoryid="SELECT loginhistoryid FROM loginhistory ORDER BY
loginhistoryid DESC";
    $resultloginhistoryid=mysql_query($sqlloginhistoryid) or die("sql error in
sqlloginhistoryid ".mysql_error());
    if(mysql_num_rows($resultloginhistoryid)>0)
    {
        $rowloginhistoryid=mysql_fetch_assoc($resultloginhistoryid);
        $loginhistoryid++$rowloginhistoryid["loginhistoryid"];
    }
    else
    {
        $loginhistoryid="LH0001";
    }
    $sqlinsertloginhistory="Insert into loginhistory
(loginhistoryid,userid,date,signintime)
values('.$loginhistoryid.','.$enterusername.','.$date("Y-m-d").','.$date("H:i:s").')";
    $resultinsertloginhistory=mysql_query($sqlinsertloginhistory) or die("sql error in
sqlinsertloginhistory ".mysql_error());
    header('location:index.php');
}
else if($rowusername["attempt"]<3)
{
    echo'<script> alert ("your password is wrong");</script>';
    $sqlupdate="UPDATE login SET attempt=attempt+1 WHERE
userid='$enterusername'";
    $resultupdate=mysql_query($sqlupdate) or die ("sql error in
sqlupdate".mysql_error());

```

```

    }
    else
    {
        echo'<script> alert("You attempt more than three times. Please go to recover option to
reset");

windows.location.href="index.php?pg=forget.php&forgetusername='.$Senderusername.'";
    </script>;
    }
}
}
else
{
    echo'<script> alert("Your username invalid");</script>';
}
}
}

```

The system will allow the user, if the user name and password are correct. It will allow to type error password only three times. If isn't it will send to recovery option.

NIC validation coding

```

function nicnumber()
{
    var nic=document.getElementById("txtnic").value;
    if(nic.length==10)
    {
        var nicformat1=/^[0-9]{9}[a-zA-Z0-9]{1}$/;
        if(nic.match(nicformat1))
        {
            var nicformat2=/^[0-9]{9}[vVxX]{1}$/;
            if(nic.match(nicformat2))
            {
                calculatedob(nic);
            }
        }
        else
        {
            alert("last character must be V/v/X/x");
            document.getElementById("txtnic").value="";
            document.getElementById("txtnic").focus();
        }
    }
}

```

```

        if(page=="customer" || page=="register")
        {
            document.getElementById("txtdateofbirth").value="";
        }
        else
        {
            document.getElementById("txtdate").value="";
        }
    }
}
else
{
    alert("First 9 characters must be numbers");
    document.getElementById("txtnic").value="";
    document.getElementById("txtnic").focus();
    if(page=="customer" || page=="register")
    {
        document.getElementById("txtdateofbirth").value="";
    }
    else
    {
        document.getElementById("txtdate").value="";
    }
}
}
else if(nic.length==12)
{

    var nicformat3=/^[0-9]{12}$/;
    if(nic.match(nicformat3))
    {
        calculatedob(nic);
    }
    else
    {
        alert("All 12 characters must be number");
        document.getElementById("txtnic").value="";
    }
}
}
}

```

```

        document.getElementById("txtnic").focus();
        if(page=="customer" || page=="register")
        {
            document.getElementById("txtdateofbirth").value="";
        }
        else
        {
            document.getElementById("txtdate").value="";
        }
    }
    else if(nic.length==0)
    {

    }
    else
    {
        alert("NIC No must be 10 or 12 Characters");
        document.getElementById("txtnic").value="";
        document.getElementById("txtnic").focus();
        if(page=="customer" || page=="register")
        {
            document.getElementById("txtdateofbirth").value="";
        }
        else
        {
            document.getElementById("txtdate").value="";
        }
    }
}

```

This validation will check 10 digits NIC number and 12 digits NIC number. If it is 10 digits NIC, then it will check first 9 digits want to come in numbers and last one want to come letter 'V' or 'X'. If it is 12 digits number, then all the digits want to come in numbers. If any error occur, then error alert will show with meaning full message.

4.5 Security

- ❖ Each type user's access is restricted according to their role. Only the Administrator has full privileges to do modifications in the system. The system verifies the user in every controller. If the users name and password ok then can access, if isn't it'll not allowed.

- ❖ The system will send alert, when error occur.

- ❖ The system has forgot password facility, if any one forgot their password, then the system will help from recovery option. It will send their password through mobile phone.

- ❖ When the customer registering, it will register only the verification code is correct. This verification code will send via customer's mobile phone.

CHAPTER 05 : EVALUATION

The system evaluation [15] “evaluation of performance, from the perspectives of both developers and users, of complex systems of hardware and software. Modern computer-based information systems have become increasingly complex because of networking, distributed computing, distributed and heterogeneous databases, and the need to store large quantities of data. People are relying increasingly on computer systems to support daily activities. When these systems fail, significant breakdowns may ensue”

Therefore, in order to prevent these kinds of unnecessary failures, a good system evaluation and testing has to be introduced.

5.1 Test Plan

A proper system testing should be carried out for evaluating the system to see its compatibility as a solution for the problem domain. It is a kind of investigation process for a newly developed system which will find out and provide information about the quality of the system to the stake holders. The test results help a developer to identify and minimize errors (software bugs) which may arise from the actual working environment of the system. A Testing has been done to the Wedding hall management system according to a test plan.

The test Plan of the Wedding Hall Management System describes the testing strategies and the approaches to testing. Quality assurance will be used to validate the quality of this system prior to its using in the real environment. It also contains various resources required for the successful completion of this project.

5.1.1 Unit Testing

In computer programming, unit testing [16] is a software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use.

5.1.2 Integration Testing

An integration testing has been done in order to test the modules (integration of units of code) of the system. This is essential when using different kinds of implementing

technologies together. It ensures that all the integrated components are working cooperatively for the desired outcome.

5.1.3 System Testing

After the completion of unit and integration testing the whole system has been tested properly. The system testing guarantees the standard of the system. A system testing [17] was conducted using a similar environment where the system will be practically used.

5.1.4 User acceptance Testing

In software development, user acceptance testing [18] - also called beta testing, application testing, and end user testing - is a phase of software development in which the software is tested in the "real world" by the intended audience. UAT can be done by in-house testing in which volunteers or paid test subjects use the software or, more typically for widely-distributed software, by making the test version available for downloading and free trial over the Web. The experiences of the early users are forwarded back to the developers who make final changes before releasing the software commercially. In this system the test done by the stakeholders.

Further the test plan includes two levels for implementing the "Black box" and "White box" testing methods. The Black box testing [19] focuses on the functions and behaviours of the system. This testing does not need any knowledge on the internal structure of the system. The White box testing [20] focuses the internal structure and logics of the system. This is a code level testing method and any malfunctioning units can be easily detected.

5.2 Test Results

The most important contents of any test plan are the test cases. Generally test cases include the test case title, expected results, actual results and the test case. In order to minimize the complexity, the whole system has been divided in to several modules, and each module was tested separately.

The tables 5.1 to 5.5 show a few of the test cases used to conduct testing. The rest of the test cases can be found in Appendix E– Test Results.

5.2.1 Login Module

| No | Test | Expected Results | Actual Results | Test Case |
|----|---|---|---|-----------|
| 01 | Unauthorized login | The system will not allow the user to login and it show on error message. | The system didn't allow the user and displayed error message. | Pass |
| 02 | Login with wrong user id or password | The system will display error message and allow only three time with wrong password if try more than three attempt with wrong password automatically go to forget password page. | The system displayed appropriate error message and allowed only three time to login with wrong password and if tried more than three time with wrong password system automatically displayed forget password page | Pass |
| 03 | Login with correct user id and password | Display appropriate user interface based on user type | The system displayed appropriate user interface based on user type | Pass |
| 04 | Forget password | Get user id and registered hand phone number and check the hand phone number correct or not, if the hand phone number is wrong, the system display error message. If the hand phone number is correct, the system send verification code to hand phone. After get the code, check the code and if it is wrong, system will display error message and if the code is correct, send | The system checked the phone number and verification code. If anything wrong, it displayed error message. If They correct, the system sent verification code and sent correct password to hand phone number. | Pass |

| | | | | |
|----|-----------------|---|---|------|
| | | password to the hand phone number | | |
| 05 | Change Password | Allow to change password when correct current password is typed. New password and confirm new password want to same. If is not want to display error message. | System allowed to change password when Entered correct current password. And system allowed new password and confirm new password are same. Otherwise it displayed error message. | Pass |
| 06 | Logout | If user click logout button, then the system destroy all session details and display index page. After logout if user click back button in browser then system not allow to go back, it only stay in index page | The system destroyed all session details when click logout and didn't allow to user to go back when click back button in browser after user made logout | Pass |

Table 5.1 Login Module

5.2.2 Management Module

| No | Test | Expected Results | Actual Results | Test Case |
|----|----------------------|---|--|-----------|
| 01 | Add new staff | Owner and clerk only allow to add new staff. | The system allowed only owner and clerk to add staff. | Pass |
| 02 | Add new beautician | Owner and clerk only allow to add new beautician. | The system allowed only owner and clerk to add beautician. | Pass |
| 03 | Add new hall | Owner and clerk only allow to add new hall. | The system allowed only owner and clerk to add hall. | Pass |
| 04 | Add new videographer | Owner and clerk only allow to add new videographer. | The system allowed only owner and clerk to add videographer. | Pass |
| 05 | Add new | Owner and clerk only allow | The system allowed | |

| | | | | |
|----|--|---|---|------|
| | packages | to add new package. | only owner and clerk to add package. | Pass |
| 06 | Add new prices | Owner and clerk only allow to add new price. | The system allowed only owner and clerk to add price. | Pass |
| 07 | Edit staffs, beauticians, halls, videographers, packages and prices. | Owner and clerk only allow to edit staff details. | The system allowed only owner and clerk to edit staff details. | Pass |
| 07 | Delete staffs, beauticians, halls, videographers, packages and prices details. | Owner and clerk only allow to delete staff , beauticians, halls, videographers, packages and prices details. | The system allowed only owner and clerk to delete staff , beauticians, halls, videographers, packages and prices details. | Pass |
| 08 | View staffs, details. | Owner and clerk allow to view all staff details ,but staffs can only view their own details. | The system allowed only Owner and clerk to view all staff details ,but staffs can only view their own details. | Pass |
| 09 | Salary Management | Owner and clerk allow to enter, edit, delete and view all staff salary details. Staff can only view their own salary details. | The system allowed only Owner and clerk to enter, edit, delete and view all staff salary details. Staff could only view their own salary details. | Pass |
| 10 | Payment Management | Owner and clerk allow to manage payment | The system allowed owner and clerk to manage payment. | Pass |
| 11 | Generate management history | Only owner allow to generate management history. | The system allowed only owner to generate management history | Pass |

| | | | | |
|----|--|--|--|------|
| 12 | Generate login history | Only owner allow to generate login history. | The system allowed only owner to generate login history | Pass |
| 13 | Generate staff, beauticians, halls, videographers, packages and prices reports | Only owner and clerk allow to generate staff, beauticians, halls, videographers, packages and prices reports | The system allowed only owner and clerk allow to generate staff, beauticians, halls, videographers, packages and prices reports. | Pass |
| 14 | Generate Packages details report | Owner and clerk only generate packages details report. | The system allowed only owner and clerk to generate package details report. | Pass |
| 15 | Generate booking details report | Owner and clerk only generate booking details report. | The system allowed only owner and clerk to generate booking details report. | Pass |
| 16 | Generate salary details report | Owner and clerk only generate salary details report. | The system allowed only owner and clerk to generate salary details report. | Pass |
| 17 | Generate payment details report | Owner and clerk only generate payment details report. | The system allowed only owner and clerk to generate payment details report. | Pass |
| 18 | Generate customer details report | Owner and clerk only generate customer details report. | The system allowed only owner and clerk to generate customer details report. | Pass |
| 19 | Messaging | Owner and clerk should be able to send, receive and delete messages | The system allowed owner and clerk to send, receive and delete messages | Pass |
| 20 | Print report | Owner and clerk should be able to print reports. | The system allowed them to print reports. | Pass |

Table 5.2 Management Module

5.2.3 Customer Module

| No | Test | Expected Results | Actual Results | Test Case |
|----|--|---|--|-----------|
| 01 | View beauticians, halls, videographers, packages and prices details. | Customer able to view details of beauticians, halls, videographers, packages and prices | The system allowed to customer to view those details | Pass |
| 02 | Select one from different selections | Customers able to select one of the beauticians, halls, videographers, packages in different selections through drop down list. | The system allowed the customers to select one from drop down list. | Pass |
| 03 | Make booking | Customers able to make booking halls, beauticians, videographers and packages as their wish. | The system allowed the customers to make booking halls, beauticians, videographers and packages as their wish. | Pass |
| 04 | Change profile | Customer able to change their own profile. | The system allowed customers to change their own profile | Pass |
| 05 | Make payment | Customers able to make their payment through online. | The system allowed the customer to make their payments through online | Pass |
| 06 | Send message | Customers able to send messages to administration. | The system allowed them to send message. | Pass |
| 07 | Comments | Customers able to send, receive comments and can delete their own messages. | The system allowed them to send, receive comments and can delete their own messages. | Pass |
| 08 | Register | Customer able to register in the system and able to get their password and user ID | The system allowed them to register and login in the system. | Pass |

| | | | | |
|--|--|------------------------------------|--|--|
| | | then they can login in the system. | | |
|--|--|------------------------------------|--|--|

Table 5.3 Customer Module

5.2.4 Booking Module

| No | Test | Expected Results | Actual Results | Test Case |
|----|------------------------------|---|---|-----------|
| 01 | Hall booking | Customer should be able to make booking a hall from various halls according to facilities and price. | The system allowed to them to see details and select one of them. | Pass |
| 02 | Beautician booking | Customer should be able to make booking a beautician from many beauticians according to make up packages and their price. | The system allowed to them to see details and select one of them. | Pass |
| 03 | Videographer booking | Customer should be able to make booking a videographer from many videographers according to video packages and their price. | The system allowed to them to see details and select one of them. | Pass |
| 04 | Meal booking | Customer should be able to make booking a meal package from many meal packages according to their meal types and price. | The system allowed to them to see details and select one of them. | Pass |
| 05 | View booking details | Owner and clerk should be able to view all booking details. | The system allowed them to view | Pass |
| 06 | Report generation of booking | Owner and clerk should be able to generate reports of booking details. | The system allowed them to generate booking report. | Pass |

Table 5.4 Booking Module


5.2.5 Test cases for common functions

| No | Test | Expected Results | Actual Results | Test Case |
|----|--------------------------------|--|--|-----------|
| 01 | Database connection | The system want to connect with database. | The system connect with database successfully. | Pass |
| 02 | Form validation | If enter wrong input, the system want to display error message. | The system displayed error message when enter wrong input. | Pass |
| 03 | Browser supporting | The system should be able to support all browser. | The system supported all the browsers | Pass |
| 04 | Operating system supporting | The system should be able to support all windows version and other OS. | The system supported all the OS | Pass |
| 05 | Try to access restricted files | System should ask appropriate login credentials | System asked appropriate login credentials | Pass |
| 06 | Access menu and toolbars. | System should be display customized dropdown menus and toolbars. | The system displayed customized dropdown menus and toolbars. | Pass |
| 07 | Session Timeout | Idle for nine hundred seconds | Display session timeout error and redirect to login page | Pass |

Table 5.5 Test Cases for Common Functions


5.3 User Evaluation

User evaluation is done by proprietor of loyolas that is shown in the following Figure 5.1:



Loyolas
Wedding hall
St. Patricks Road, Jaffna

e-mail address : loyola0405@gmail.com




Contact Number (Office): 0212221340
Contact Number (Mobile): 0777734083

User Evaluation

| Evaluation | Satisfied: Yes/No |
|--------------------------------------|-------------------|
| User Interface | Yes |
| Clear of error messages | Yes |
| Validations | Yes |
| Easiness of report generation | Yes |
| Coverage of required functionalities | Yes |
| Login module | Yes |
| Management module | Yes |
| Customer module | Yes |
| Booking module | Yes |
| Common function module | Yes |
| Overall performance of the system | Yes |

Evaluated by : Mr.A.C.Loyolas



Signature

02.11.2017

PROPRIETOR
(A.C.Loyola)
LOYOLAS

Any comments :

*This wedding hall management is very Useful for our wedding hall to adopt this present **IT** trend world. It's Very userfriendly interface and include all the requirements. Thankyou to enable us to enter the new trend.*

Figure 5.1 User Evaluation

Users Acceptance Chart

The system was tested by different types of users and got feedback from them. The user evaluation chart is shown in the following Figure 5.2. Different type of users login and access the system and test all the modules based on user privilege and got feedback and generate user evaluation chart based on feedback.

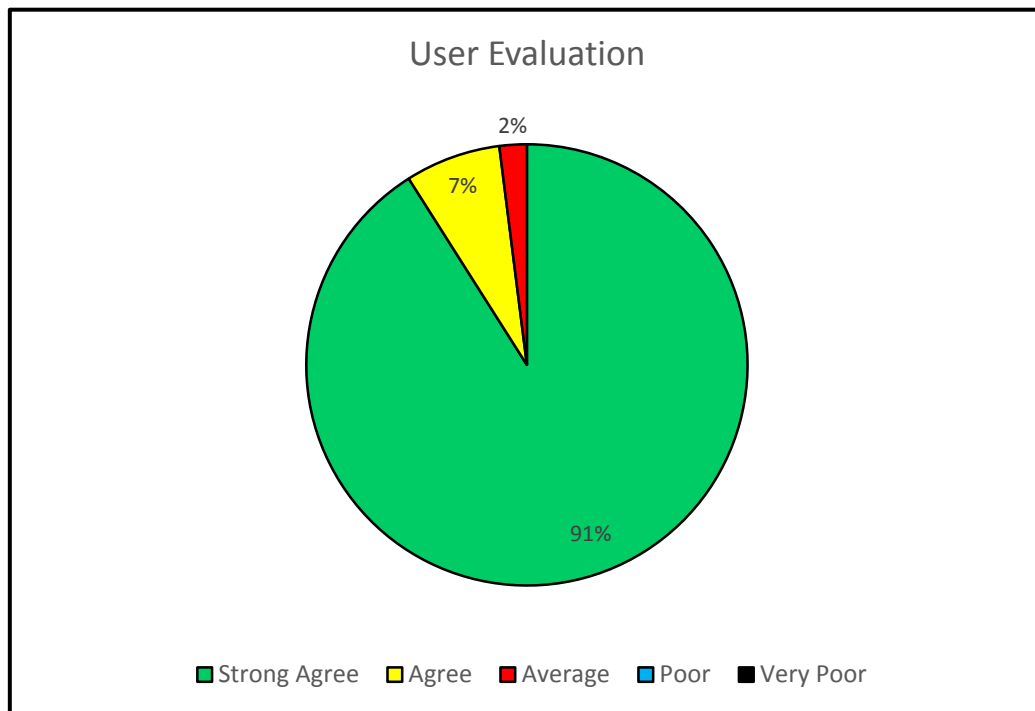


Figure 5.2 User evaluation chart

CHAPTER 06 : CONCLUSION

6.1 Introduction

On the journey of development of the project each work has been tested on the client basis. To make sure that all the client's requirements were completed successfully without compromising anything.

Functional and Nonfunctional requirements were reviewed on the analysis phase and check back each requirements with the functionalities implemented in the system. It can be said all requirements of the client have been satisfied. The simple and intuitive user interface that was designed and developed, was easy to learn and use proved to be satisfactory for the user.

An efficient and effective system to Loyalas Wedding Hall, Jaffna to handle the day-to-day activities such as hall, meals, beauticians, decoration, photography, packages and etc., as well as manage their staff details, salary details, booking details, payment details and etc. as worldwide business and generating the report as easy.

The system was built using the following technologies Object oriented, HTML, CSS, PHP, JavaScript, and MySQL.

6.2 Lesson learnt

This developed system does not merely fulfill the requirement of the final year of the Degree program; however it assists me to practically apply the knowledge learnt throughout the past three years.

When assigning the project proposal, I did not have much of an idea on how to carry out the project. When progressing through step by step according to the guideline provided by the university, I gained a valuable knowledge on how to do a successful professional system development project. By doing the development process according to a schedule, I learnt how to do my day-to-day activities by managing time efficiently.

The implementation phase was the toughest and most interesting phase of the project, as it allowed me to try out practically the academic knowledge that I have gained on

programming languages such as PHP, Java Scripts, CSS and many more development tools and techniques.

Writing the dissertation was another interesting task of the project. It provided me with lessons on how to write a report in a professional manner. It helped me to develop my skills on writing and designing technical reports.

6.3 Critical assignment of project

This system has many objectives. It allows the user or member to perform service enquiry including service booking, service availability status, service details...etc. and it provided the user to register in order to be a member of the website. User is then granted privileges to book or cancels services. The management can able to manage their details and prices of hall, beautician packages, meals packages, decoration, photography and etc. The customers can search hall, beautician and their packages, meals packages, decoration style, catering service, Photography and packages etc. as their wish. And they can able to find the details of price, search free dates for booking and make their booking , can able to reserve hall and other facilities through this system. The management can able to get reports in various categories such as day or month or year wise. The system facilitate to send alert messages to customer through system. The system calculate the bill automatically and print the bill. This is a cost effective system, because the application can be used in a computer with low memory and low processing power. It is a graphical user interface and user friendly system, so owner and customers can work with easily and also it reduces time for training. All above the objectives has completed.

6.4 Future work

- ❖ Online-customer profile can be developed furthermore to do payments online.
- ❖ Add more effective bar charts and pie charts in report generation module to support top management in decision making.
- ❖ Include encryption method
- ❖ Obtain SSL certificates to ensure secure transaction.
- ❖ Improve the security by using cryptographic methods while storing the passwords

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APPENDIX

Appendix A – System Documentation

Wamp server installation and database upload method

Step 1: Double click on WampServer 2.4 setup file and follow the instruction.



Figure A.1 Setup wizard

Step 2: After follow some instruction, then agreement window will show and select 'I agree the agreement' option, then click next button.

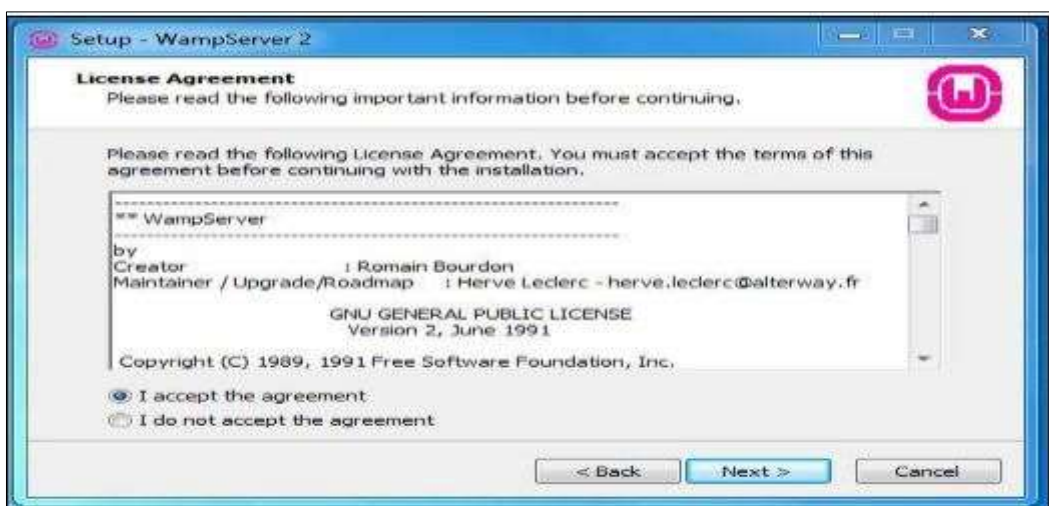


Figure A.2 Agreement window

Step 3: Click on the Browse button and select the installation location of Wamp Server



Figure A.3 Folder location

Step 4: Click Install button and It will install the programme and finish automatically.



Figure A.4 Installation window

Step 5: After Install the wamp server, start the Wamp Sever. When start the wamp server, it visible in green color in the task bar. After that, go to browser and type “localhost” or “127.0.0.1” in the address bar.



Figure A.5 Wamp server icon in task bar

Step 6: In the browser, the following window will be show, then click phpmyadmin link

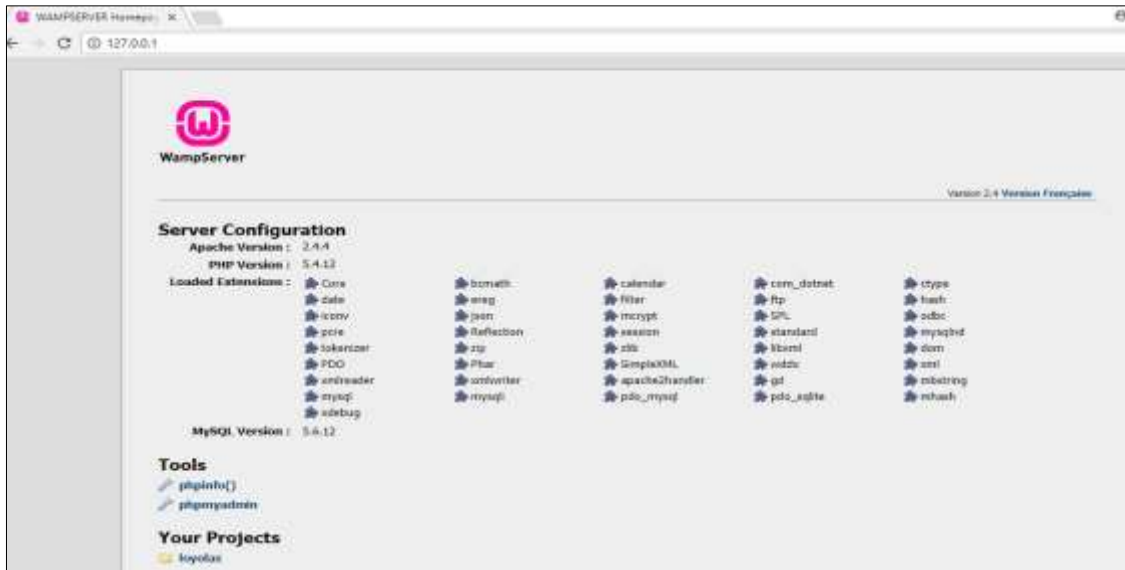


Figure A.6 Index page of wamp server

Step 7: After that, type “root” in user name text box field and keep blank in password text box field. And click go button.

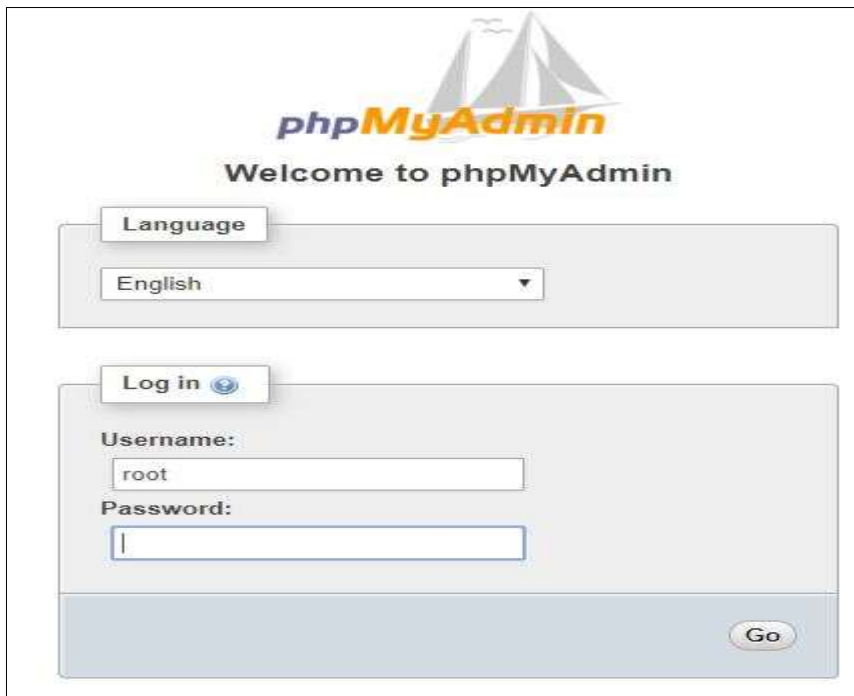


Figure A.7 welcome page

Step 8: After login, click Import tab and click browse and select the database file loyolas.sql file from CD and click go button. Now the database successfully uploaded.

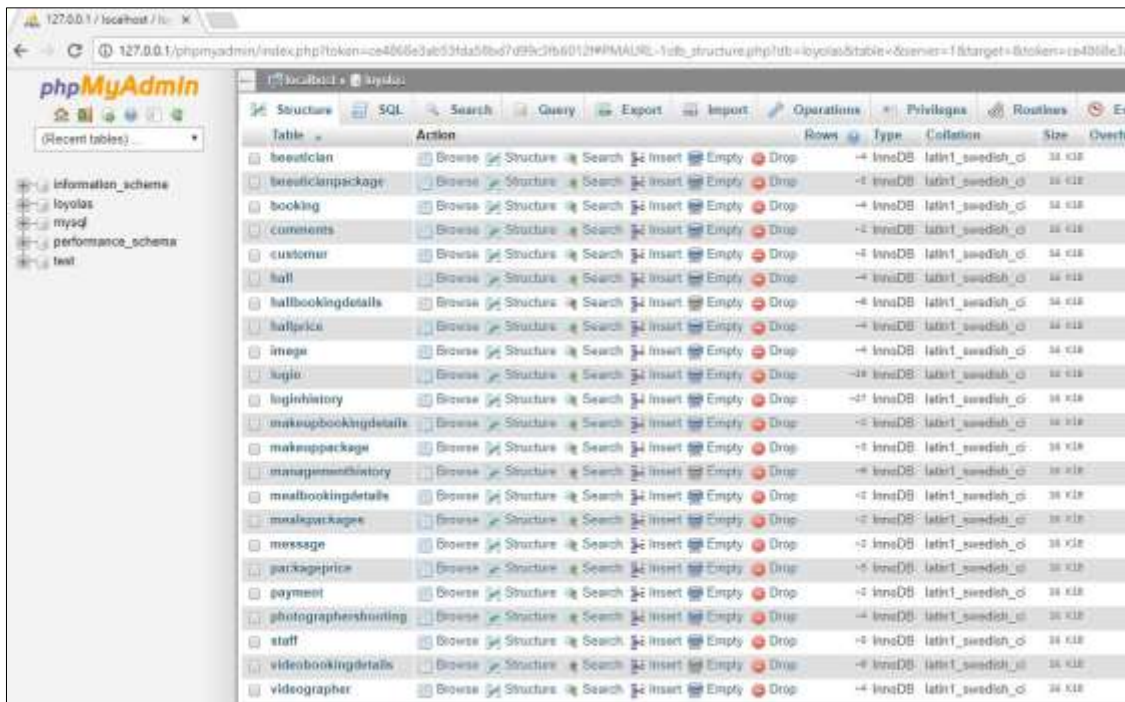


Figure A.8 Database Tables

Step 9: For those process, 'www' folder will be created automatically in the wamp. All the PHP files are saved in this www folder.

Appendix B – Design Documentation

The following Figure B.1 shows activity diagram for booking.

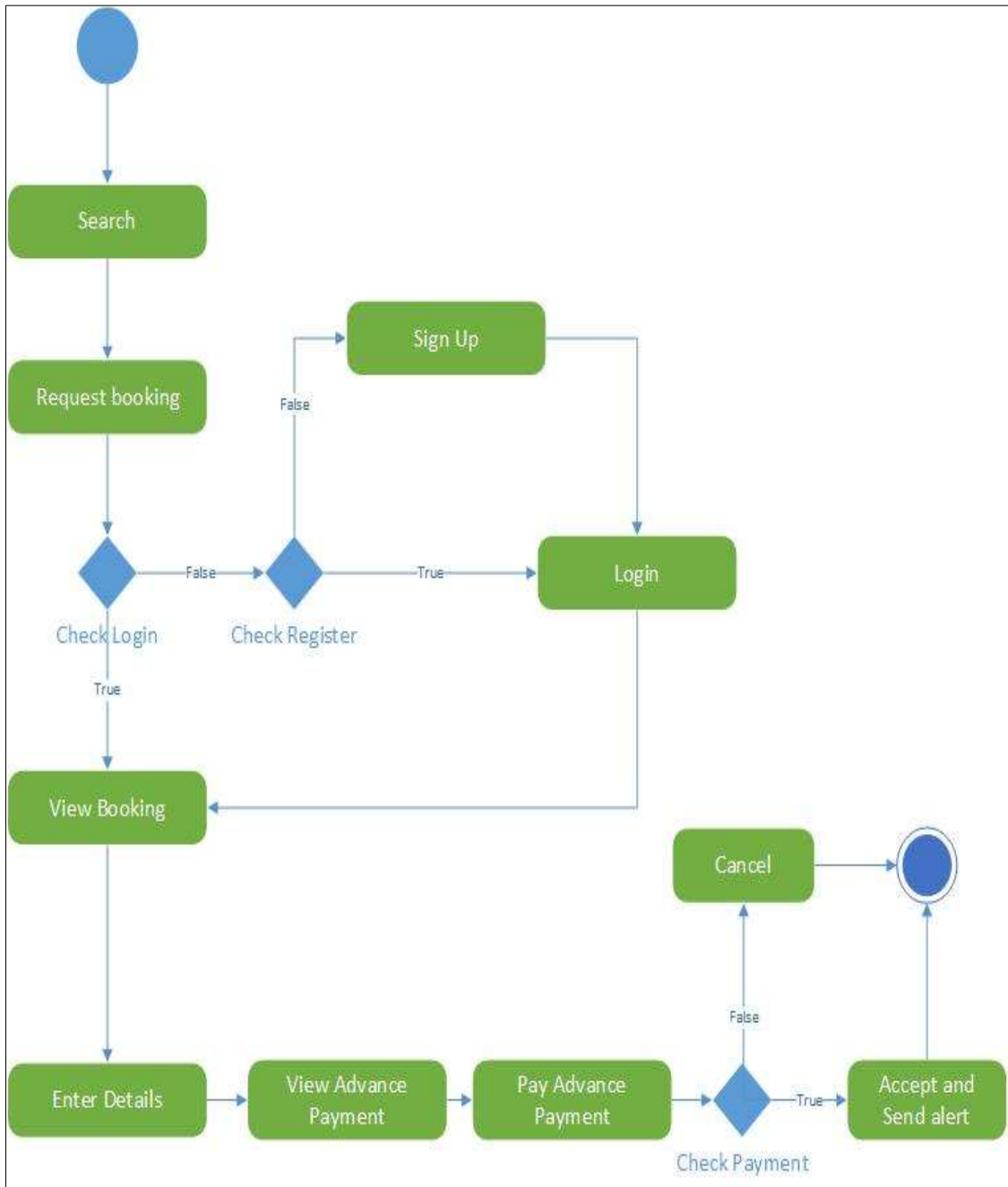


Figure B.1 Activity diagram for booking

The following Figure B.2 shows activity diagram for login

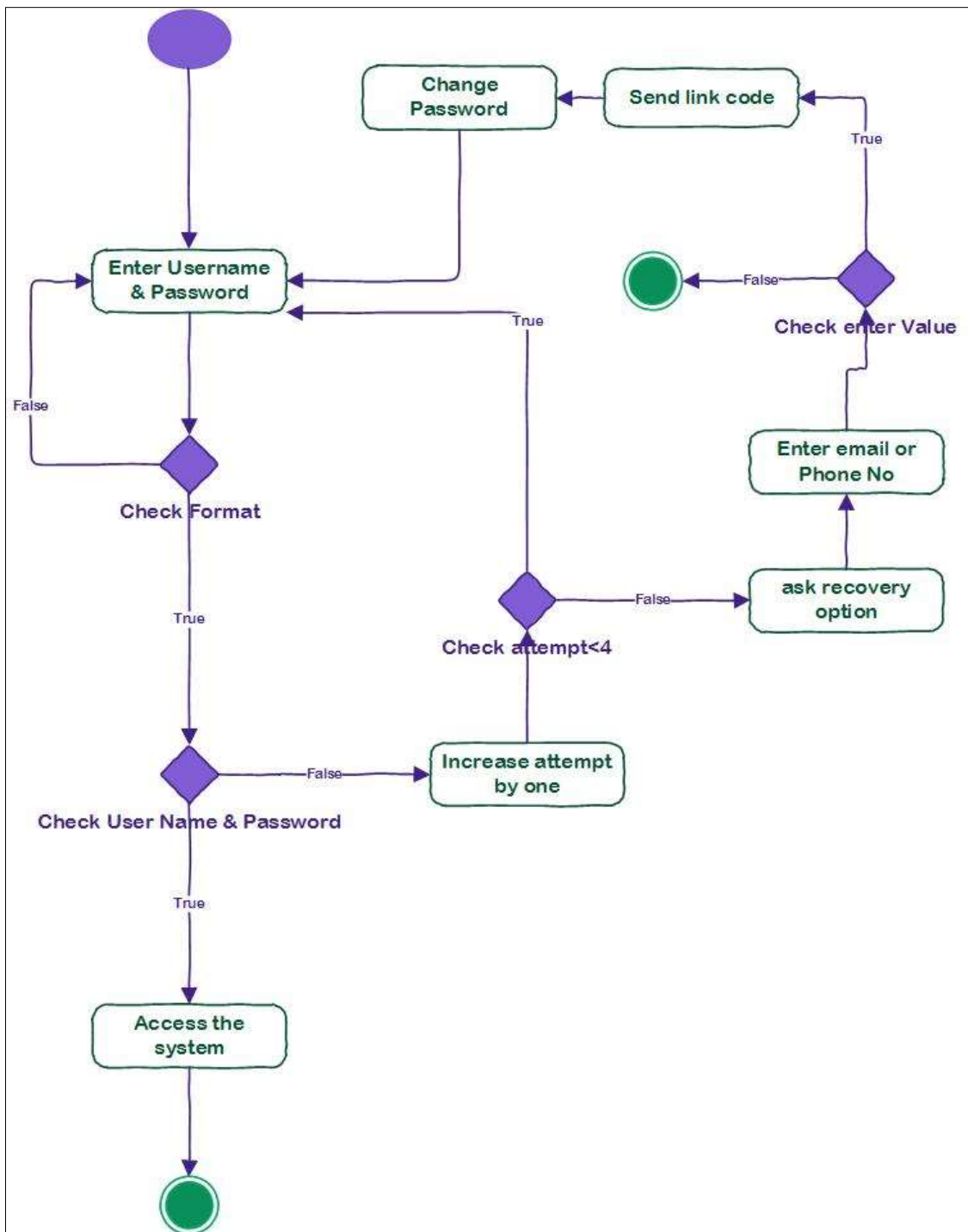


Figure B.2 Activity diagram for login

The following Figure B.3 shows activity diagram for report generation.

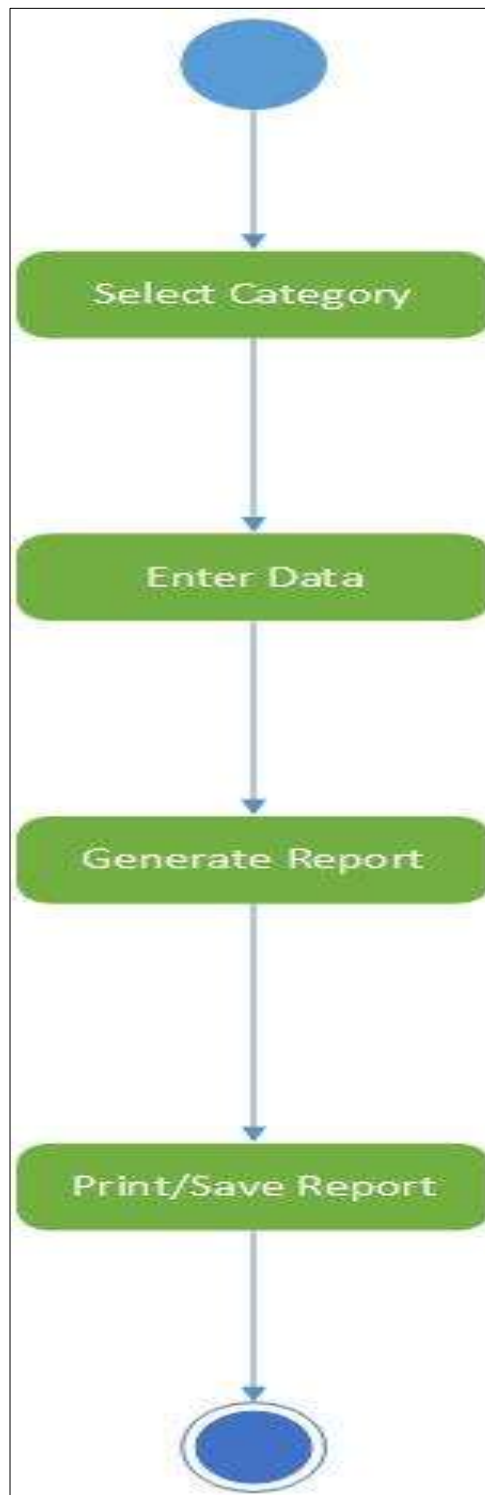


Figure B.3 Activity diagram for report generation

The following Figure B.4 shows sequence diagram for login

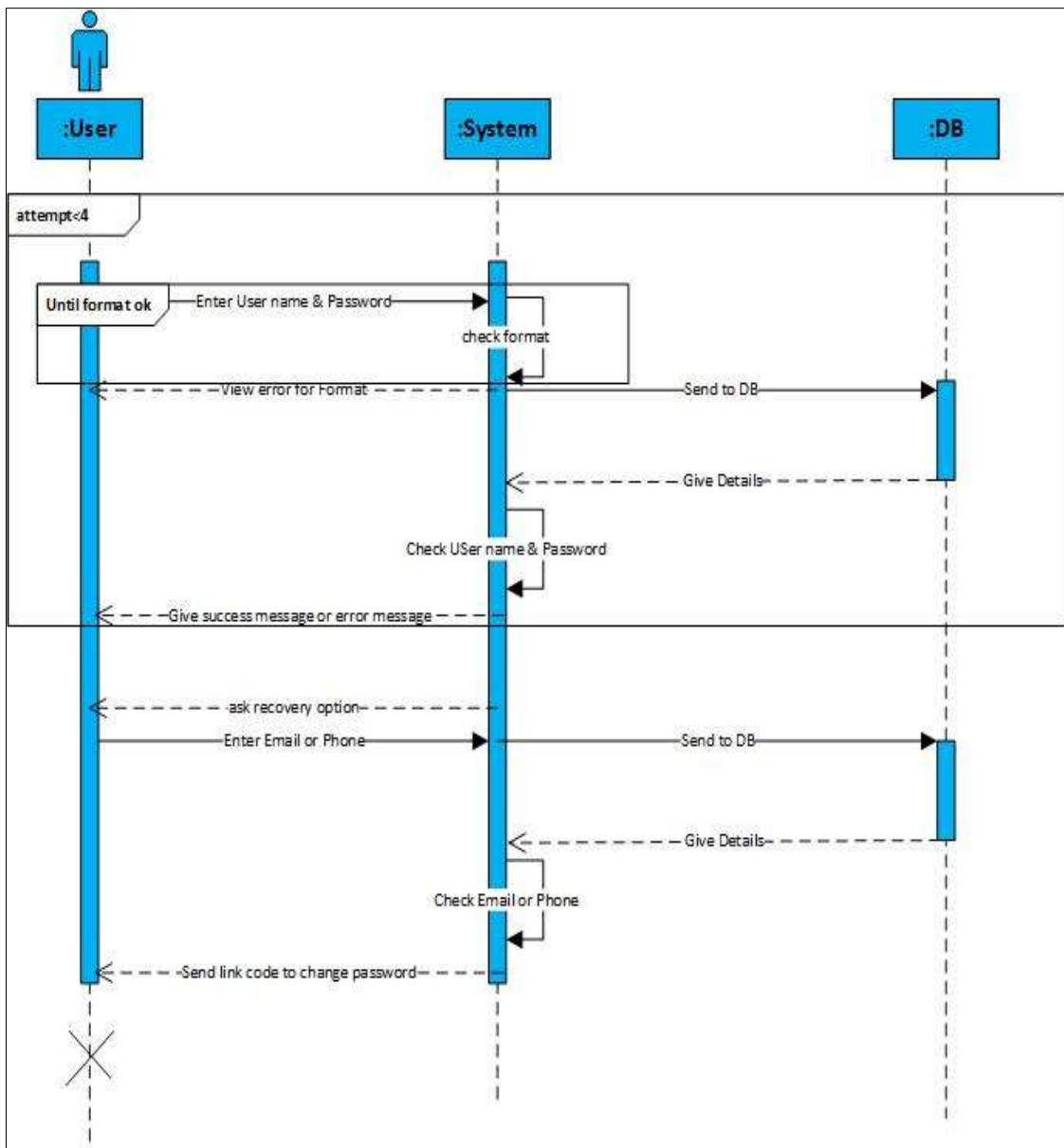


Figure B.4 Sequence diagram for login

The following Figure B.5 shows sequence diagram for register

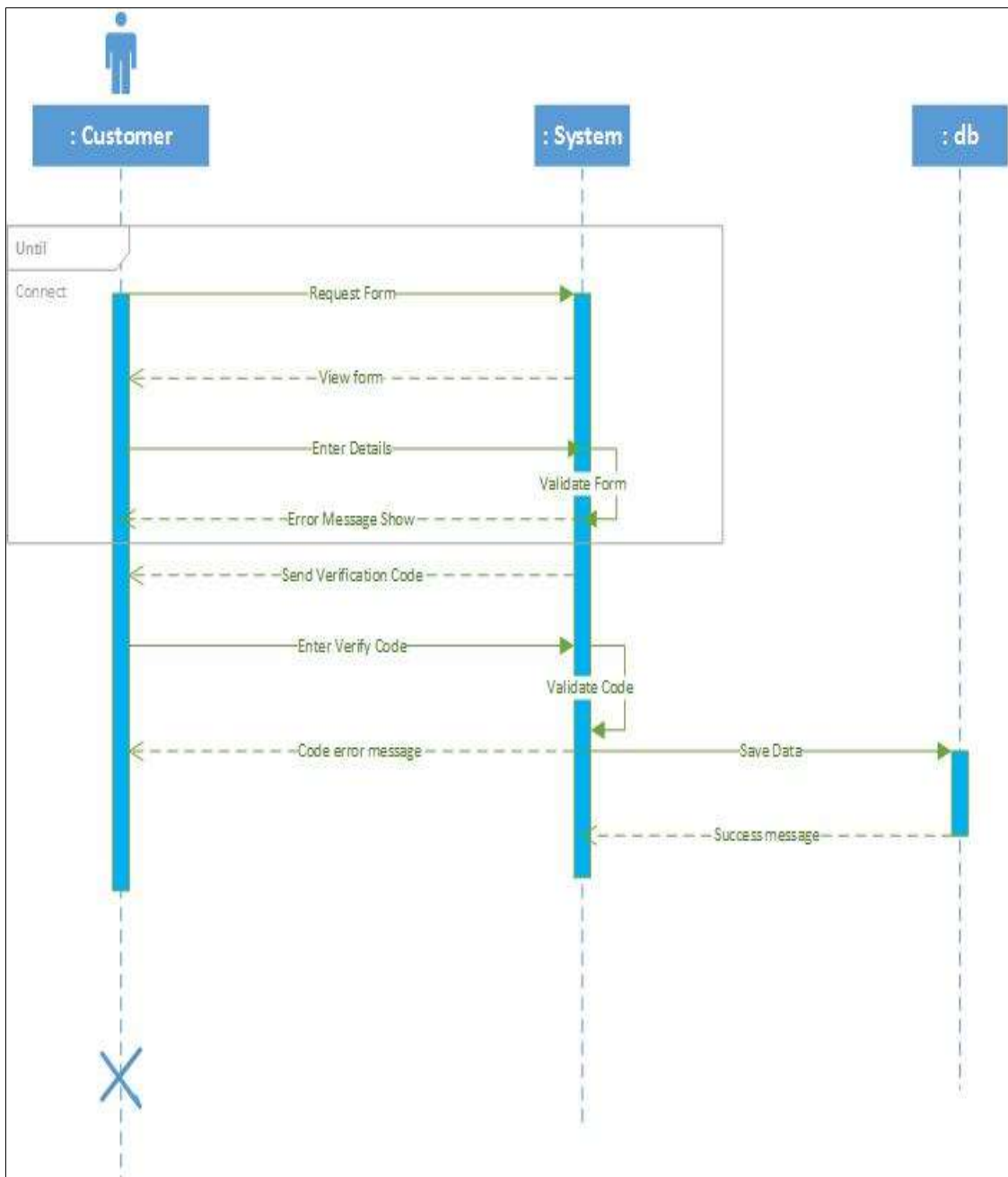


Figure B.5 Sequence diagram for register

Appendix C – User Documentation

Web based wedding management system of Loyolas has been developed with lots of functions and features in order to carry out their services smoothly. In order to get the maximum from the developed system, it is very important for a user to identify all the features of the system and how to use these functions and features efficiently. User documentation provides initial overview knowledge on using the web based management system system step by step.

Index Page

Index page is the home page of this system. It includes Home, Register, About us and Login tabs. And also it includes contact details and basic details about Loyolas and their facilities. This page linked with many linked pages. Figure C.1 shows index page of guest

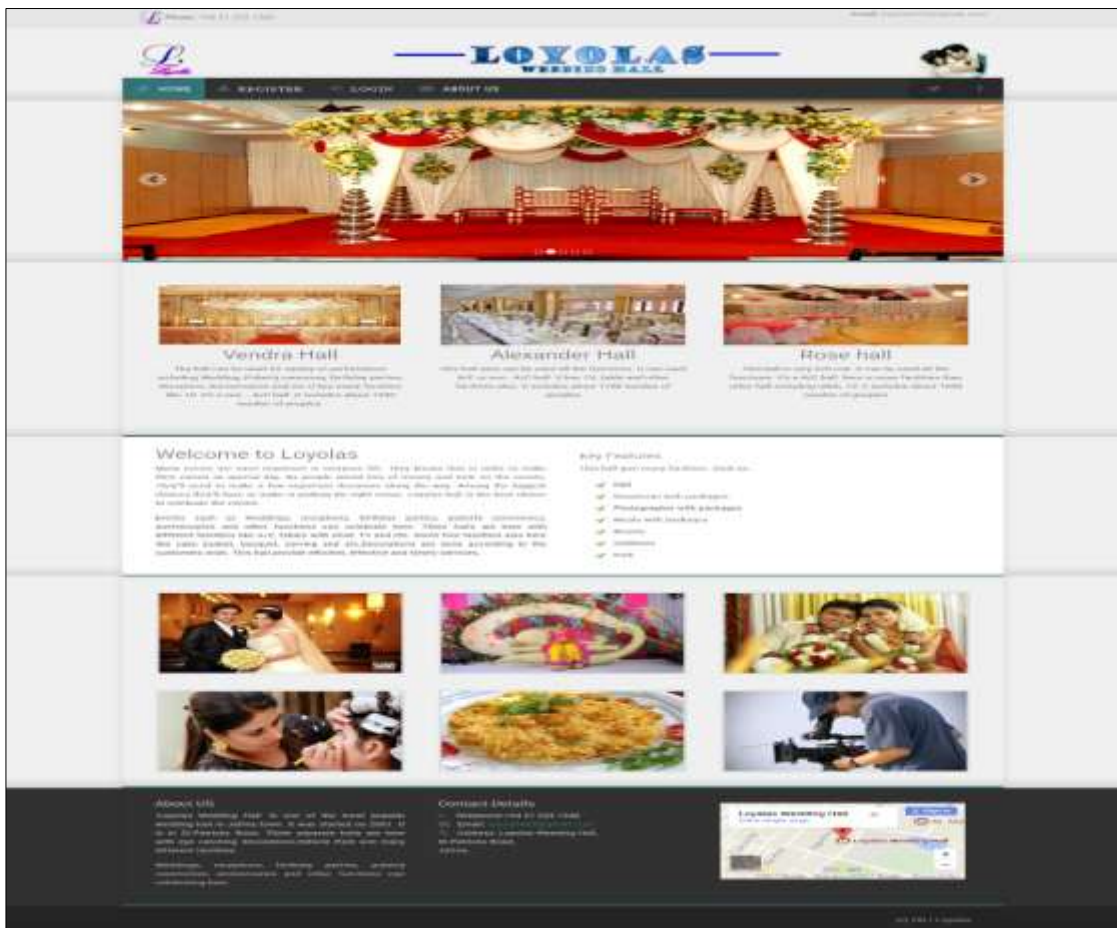


Figure C.1 Guest index page

Guest Menu

Figure C.2 shows guest menu. New user can register them in this system through register tab and already registered customer can login through login tab. The loyolas wedding hall details are in this about us menu.

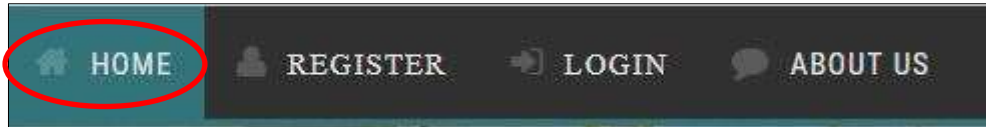


Figure C.2 Guest menu

Register interface

Figure C.3 shows register interface. New user can register through this form and they can access this system as customer. Here they want to fill this form. Except email ID they want fill all the field and want to give mobile number only.

A registration form titled 'Please Fill Details To Register' under a blue header. The form contains several input fields: 'CUS0007', 'Naayaki', '818504589V', 'Gender', 'dd/mm/yyyy', 'E-Mail', and '0773472797'. Below these fields is a text input field containing 'Manipay'. At the bottom, there are three buttons: 'Go Back' (blue), 'Reset' (light blue), and 'Submit' (green). Below the buttons are links for 'Login', 'Forgot Password', and 'Signup'.

Figure C.3 Register Interface

After click submit button, the message will show as like Figure C.4



Figure C.4 Information of verification code

And registering person got verification code to his/her given mobile number. Then he/she want to enter the mobile number displayed screen as like Figure C.5.

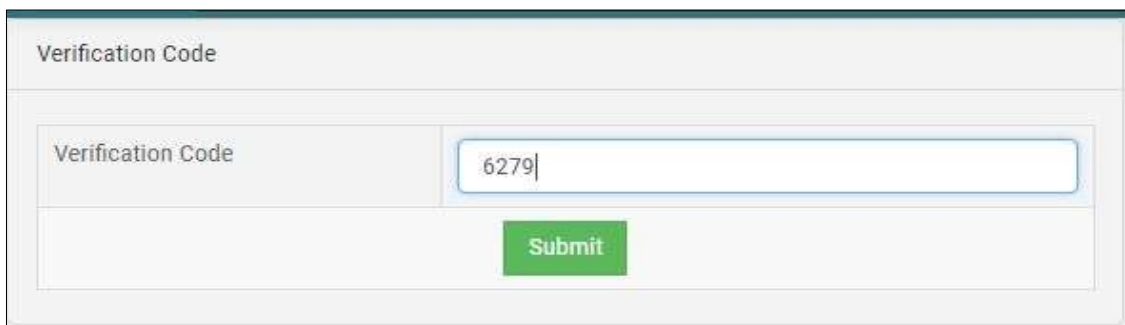


Figure C.5 Verification code entering interface

If the verification code is wrong, then the error message will be display like Figure C.6

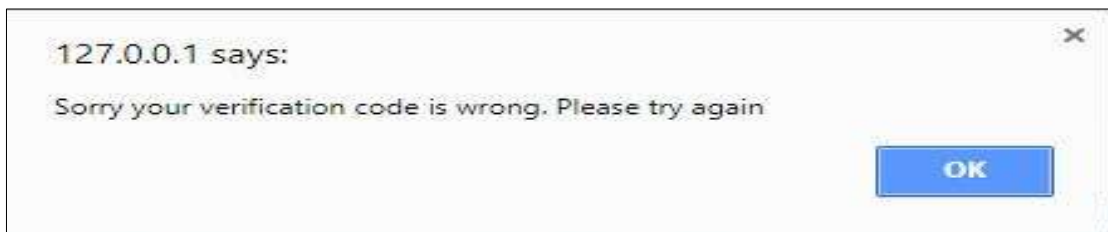


Figure C.6 Verification code error message

If the verification code is right, then display message like Figure C.7 and the user will be successfully register to this system

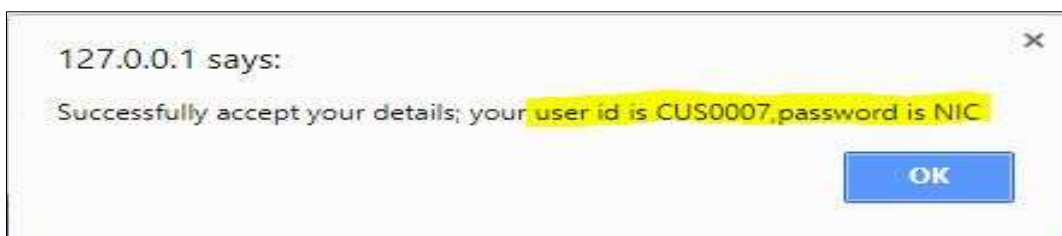


Figure C.7 Register successful message

Login Interface

Owner, clerk, staff and customer can login using their user name and password and they can access the system. Figure C.8 shows login interface.

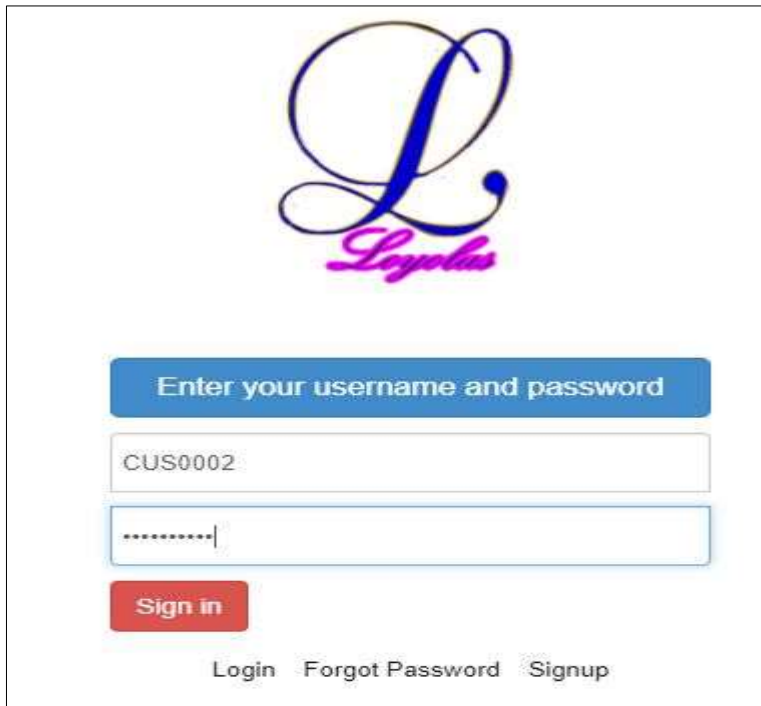


Figure C.8 Login Interface

If the user name and password are ok then it leads to their index page or if they enter wrong user name or password, then the error message will be show as Figure C.9

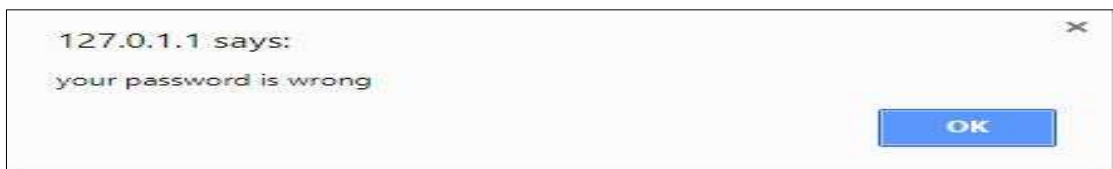


Figure C.9 Login error message

If they enter wrong password more than three times, then the error message will be show like Figure C.10 and want to go recovery option.

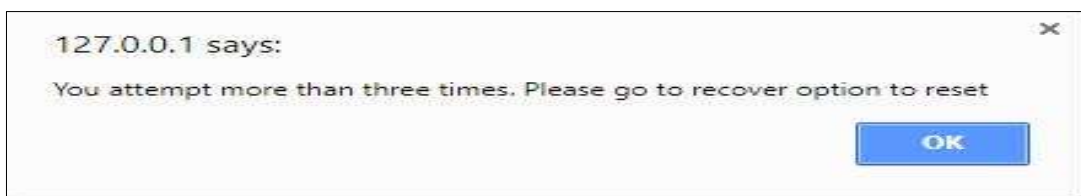


Figure C.10 Password error message

Forget Password

If anyone forgot their password then they can click forgot password button. When they click the interface will be show like Figure C.11



The screenshot shows a web interface for a service named 'Lyzela'. At the top center is a large blue stylized letter 'L' with the word 'Lyzela' written in a pink cursive font below it. Below the logo is a blue button with the text 'Enter your valid Mobile number'. Underneath this button are two white input fields: the first is labeled 'Username' and the second is labeled 'Your Mobile'. Below the input fields is a green button with the text 'Recover Password'. At the bottom of the interface, there are three links: 'Login', 'Forgot Password', and 'Signup'.

Figure C.11 Forgot password

In this interface, one want to enter their user name and their already given mobile number. If the mobile number is wrong then the error message will be show like Figure C.12.



Figure C.12 Mobile number error message

If the enter right mobile number, then the message will be show like Figure C.13. Then the password will be sent to the mobile number.



Figure C.13 Information to check mobile number

Clerk Menu

When login as clerk, then in index page following tabs will show. Figure C.14 shows clerk menu

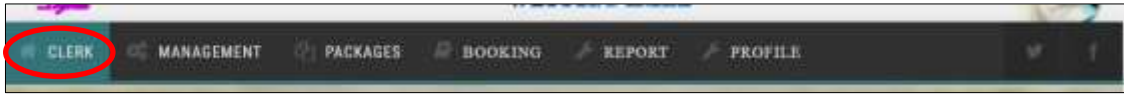


Figure C.14 Clerk Menu

Sub menus in clerk index page

The following sub menus are in management, packages, booking, report and profile tabs. Figure C.15 shows management tab. Here clerk can add, view, edit, delete details of staff, hall, hall prices, beautician, videographer etc.

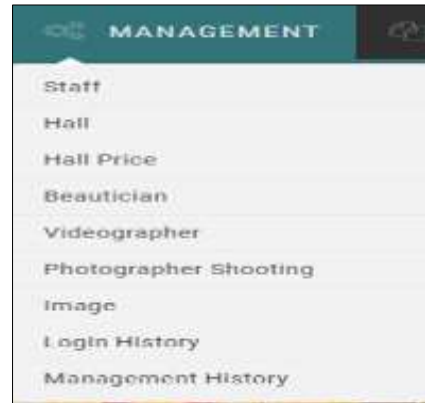


Figure C.15 Management sub menus

Figure C.16 shows packages menu. Here clerk can add, view, edit, delete details of Make up package , meals package, video package and their prices.

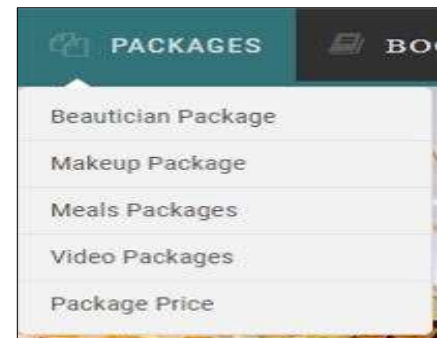


Figure C.16 Packages sub menus

Figure C.17 Shows booking menu. It includes bookings, comments, customer, payment details and hall, makeup, meal and video booking details.



Figure C.17 Booking sub menus

Figure C.18 shows report menu. Here can get all reports. Such as booking detail report, Payment report, staff report, packages report etc. The reports can get by date wise.

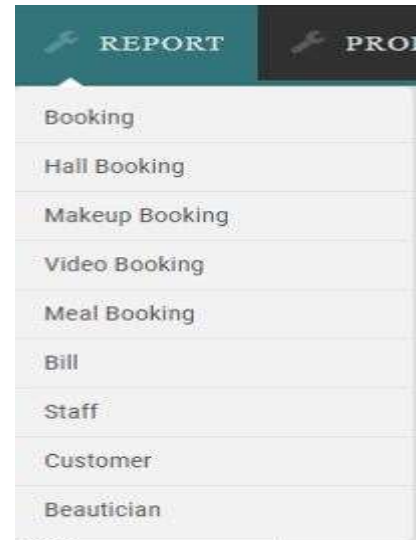


Figure C.18 Report sub menus

Figure C.19 shows the date wise selection interface of report



Figure C.19 Date selection interface for report

Figure C.20 shows profile menu. Here one can view and change their own profile and can change their password as their wish, can send messages and done logout through this menu.

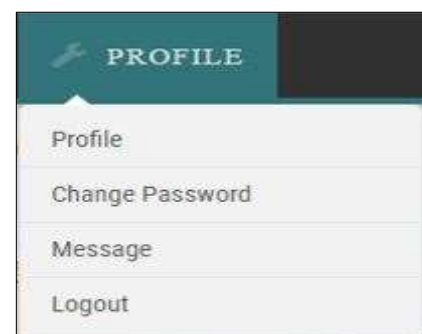


Figure C.20 Profile sub menu

Staff menu

Figure C.21 shows staff menu. Here staff can view the details but they can't add, edit or delete any details

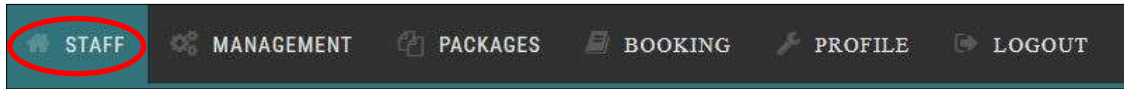


Figure C.21 Staff menu

Customer Menu

Figure C.22 shows customer menu. Here customer also view hall, beautician, videographer and packages. They can make booking, send message or comments and view their profile and change their password.



Figure C.22 Customer menu

Add images interface

Figure C.23 shows images add interface. When select a type such as makeup, hall, meals or videographer, then name field will automatically listed their name. E.g when select make up type then in name field, make up packages name will be appear.

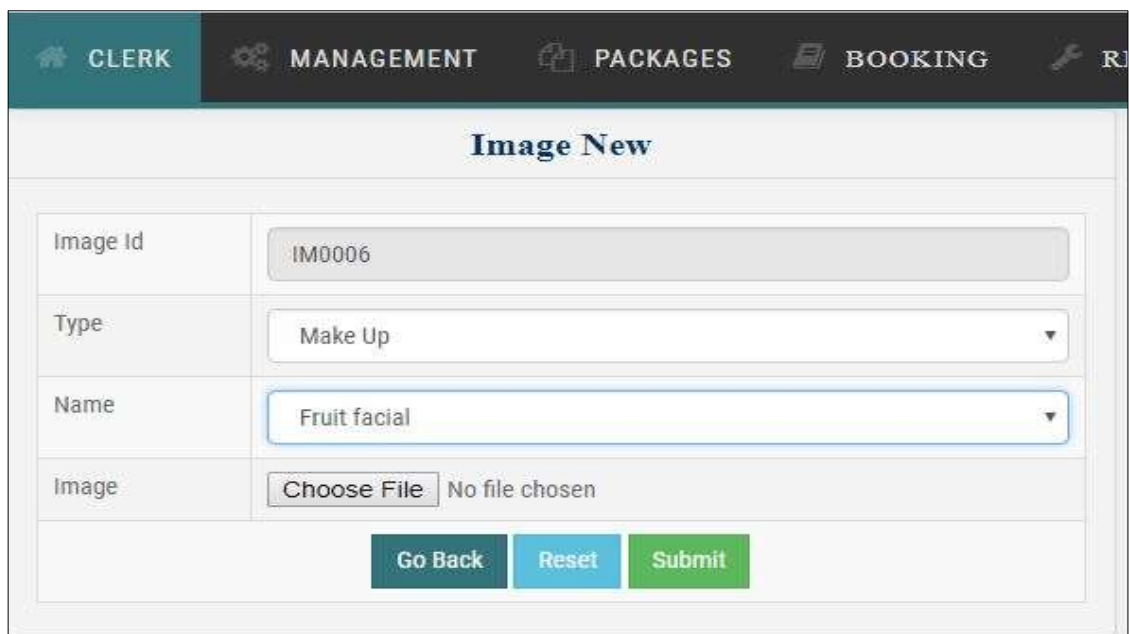
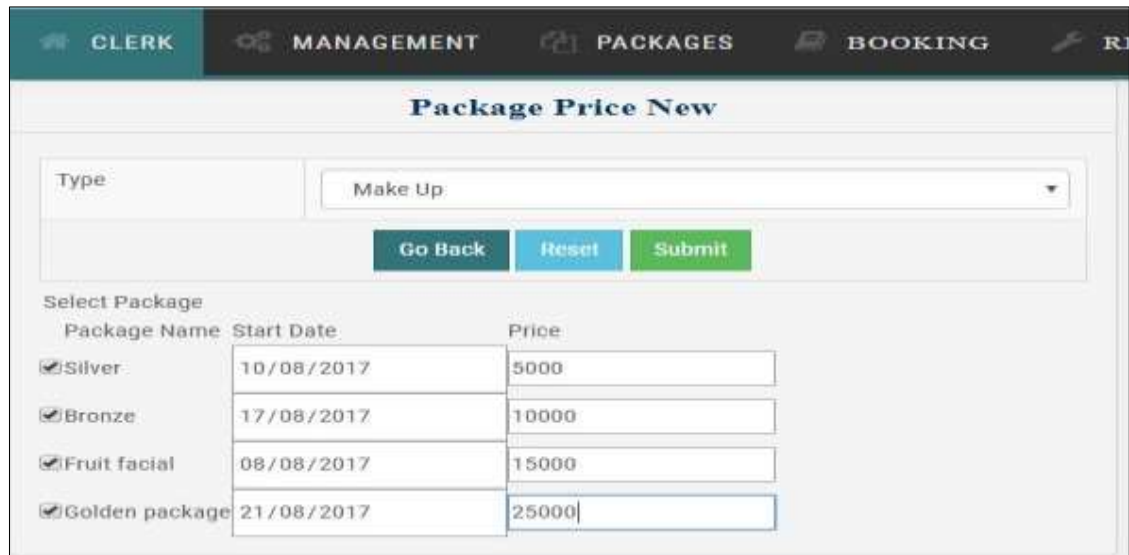
A screenshot of a web form titled 'Image New'. The form is set against a dark navigation bar with 'CLERK' highlighted. The form fields are: 'Image Id' (text input with 'IM0006'), 'Type' (dropdown menu with 'Make Up'), 'Name' (dropdown menu with 'Fruit facial'), and 'Image' (file upload area with 'Choose File' button and 'No file chosen' text). At the bottom are three buttons: 'Go Back' (dark teal), 'Reset' (light blue), and 'Submit' (green).

Figure C.23 Add images interface

Add package prices interface

Figure C.24 shows add package price details. When select the type then packages names will be appear automatically. Then can tick check box that we want add prices. After fill the form then want to click submit button

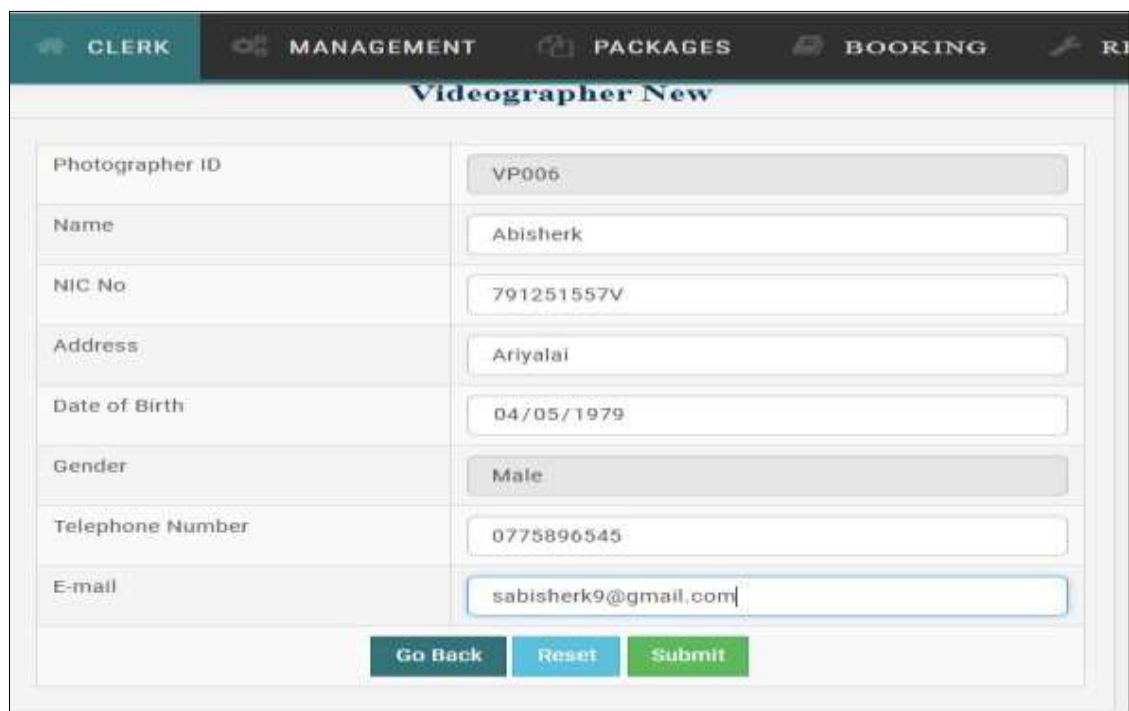


| Package Name | Start Date | Price |
|--|------------|-------|
| <input checked="" type="checkbox"/> Silver | 10/08/2017 | 5000 |
| <input checked="" type="checkbox"/> Bronze | 17/08/2017 | 10000 |
| <input checked="" type="checkbox"/> Fruit facial | 08/08/2017 | 15000 |
| <input checked="" type="checkbox"/> Golden package | 21/08/2017 | 25000 |

Figure C.24 Add package price interface

Add videographer details interface

Figure C.25 shows videographer details add form. Staff, beautician, other details entry form also like this one



| | |
|------------------|----------------------|
| Photographer ID | VP006 |
| Name | Abisherk |
| NIC No | 791251557V |
| Address | Ariyalai |
| Date of Birth | 04/05/1979 |
| Gender | Male |
| Telephone Number | 0775896545 |
| E-mail | sabisherk9@gmail.com |

Figure C.25 Videographer add interface

In this entry form some validation are done. Figure C.26 shows a error message that occur when enter wrong length of NIC number.

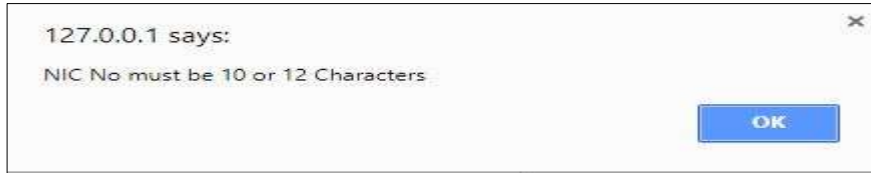


Figure C.26 NIC number error message for length validation

The following Figure C.27 shows a error message that occur when enter ten digits NIC number, then first 9 number isn't as number.



Figure C.27 NIC number error message for number validation

The following Figure C.28 shows a error message that occur when enter ten digits NIC number, last letter isn't equal to 'V' or 'X'.

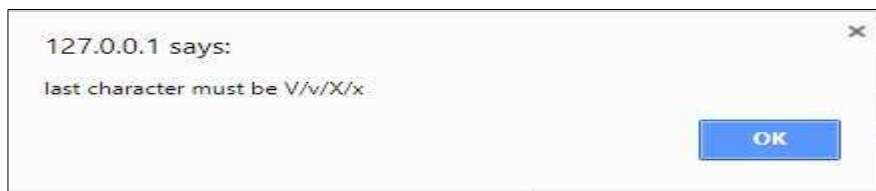


Figure C.28 NIC number validation error message for text validation

The following Figure C.29 shows a error message that occur enter wrong email address.



Figure C.29 E mail validation

The following Figure C.30 will appear when any required field was empty.

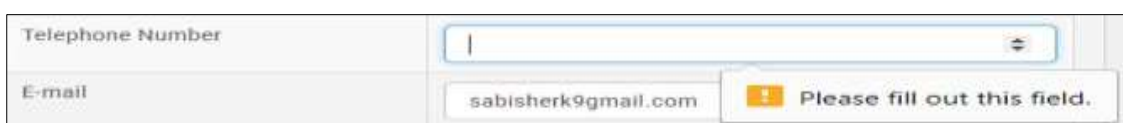


Figure C.30 Blank field validation

Add comment interface

Figure C.31 shows the comment interface. All the users can share comments in the system

| Comments ID | COM0003 |
|---------------|--|
| Customer Name | Fiona |
| Date | 16/08/2017 |
| Comments | Thank you very much your facilitations |

Figure C.31 Add comment interface

Beautician view interface

Figure C.32 shows beautician view. This view shows for owner and clerk. They can only add, edit and delete details. This view didn't show staff or customer.

| Beautician Name | Package Name | Action |
|-----------------|--------------|--|
| ananya | Silver | View Edit Delete |
| ananya | Bronze | View Edit Delete |
| Dale | Silver | View Edit Delete |
| Dale | Bronze | View Edit Delete |
| Renu | Silver | View Edit Delete |
| Renu | Bronze | View Edit Delete |

Figure C.32 Beautician view interface

Image view interface

Figure C.33 Shows image view interface



Figure C.33 Image view interface

Staff view interface

Figure C.34 shows staff view. This view shows for staff . They can only view details. They can't add, delete or edit data. This view didn't show owner or clerk

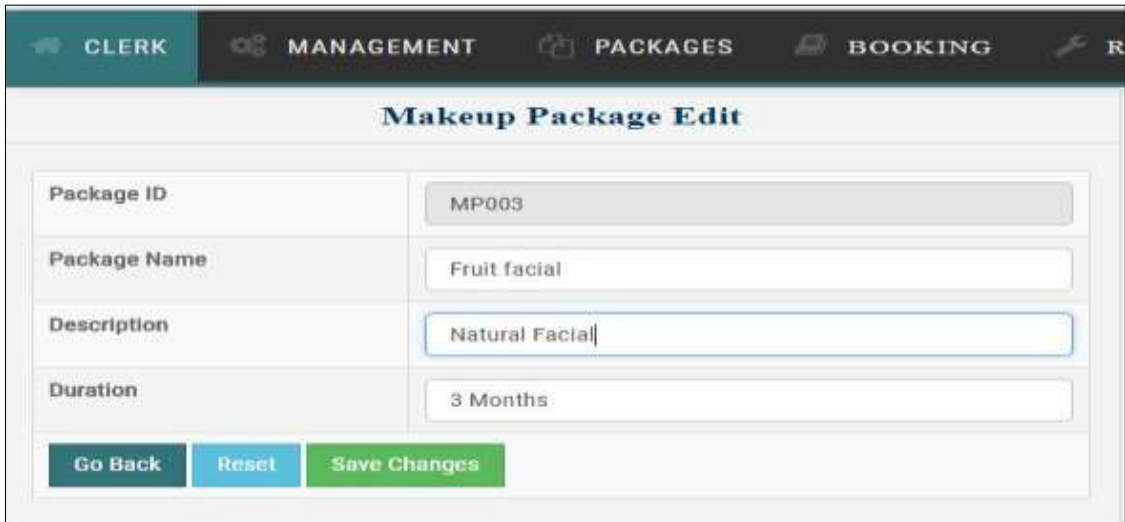
The screenshot displays the 'Staff View' interface. It features a navigation bar with the following items: STAFF, MANAGEMENT, PACKAGES, BOOKING, PROFILE, and LOGOUT. Below the navigation bar, there is a search bar and a dropdown menu for 'records per page' set to 10. The main content is a table with the following data:

| Staff ID | Staff Name | NIC Number | Gender | Action |
|----------|----------------|------------|--------|----------------------|
| ST0001 | Elan Yalini | 847601892V | Female | View |
| ST0002 | Lawrencerajeev | 840091234V | Male | View |
| ST0003 | Harry | 900011234V | Male | View |
| ST0004 | Paul | 832304321V | Male | View |
| ST0005 | Kapil | 921564789V | Male | View |

Figure C.34 Staff view interface

Edit makeup package interface

Figure C.35 shows edit interface of makeup package. Here package id couldn't change other details can be change. After changing want to click submit button.



| Makeup Package Edit | |
|---|----------------|
| Package ID | MP003 |
| Package Name | Fruit facial |
| Description | Natural Facial |
| Duration | 3 Months |
| Go Back Reset Save Changes | |

Figure C.35 Makeup edit interface

Action buttons

Figure C.36 shows actions button in the system

| | |
|------------------------|-----------------------|
| + Add New Staff | : Use to add data |
| View | : Use to view data |
| Edit | : Use to edit data |
| Delete | : Use to delete data |
| Submit | : Use to submit data |
| Reset | : Use to reset data |
| Save Changes | : Use to update data |
| Go Back | : Use to go last page |
| Print | : use to print report |

Figure C.36 Actions button

Search box

Figure C.37 shows search box. When start enter letter, it give sorted data



Figure C.37 Search box

Navigation Bar

Figure C.38 shows navigation bar. It use to get next previews data.

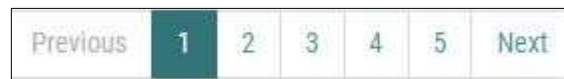


Figure C.38 Navigation bar

Map

Figure C.39 shows the map of Loyolas Wedding Hall



Figure C.39 Map of Loyolas Wedding Hall

Appendix D – Management Report

Meal booking details report

Figure D.1 Shows report of all meals booking details. This report can get by through given start date and end date. Also can get this report as package wise .



Loyolas
Wedding hall
St.Patricks Road, Jaffna

e-mail address : loyola0405@gmail.com

Contact Number (Office): 0212221340
Contact Number (Mobile): 0777734083

Meal Booking Details

| | |
|---------------------|------------|
| Start Date | 2017-01-01 |
| End Date | 2017-10-30 |
| Package Name | All |

Meal Booking Details

| Details Id | Booking Id | Pack ID | Function Date | Number of Items |
|------------|------------|-------------------|---------------|-----------------|
| MEBD0001 | B0004 | Gold package | 2017-05-09 | 1500 |
| MEBD0002 | B0005 | Silver package | 2017-05-15 | 800 |
| MEBD0003 | B0008 | Silver package | 2017-10-08 | 850 |
| MEBD0004 | B0011 | Gold package | 2017-10-10 | 500 |
| MEBD0005 | B0014 | Vegetable package | 2017-10-12 | 700 |
| MEBD0006 | B0018 | Gold package | 2017-10-14 | 1000 |

Figure D.1 Meals booking detail report


Bill details report

Figure D.2 shows bill details report. It includes customers details and booking details with their price.

| | | |
|---|--|---|
|  | Loyolas Wedding hall St. Patricks Road, Jaffna. |  |
| e-mail address : loyola0405@gmail.com | | Contact Number (Office): 0212221340 Contact Number (Mobile): 0777734083 |
| Bill Details | | |
| Booking Number | B0001 | |
| Booking Details | | |
| Booking Id | B0001 | |
| Status | Accept | |
| Reserve Date | 2017-05-08 | |
| Customer Id | Mainthan | |
| Type | Hall | |
| Hall Booking Details | | |
| Hall Id | H003 | |
| Function Date | 2017-05-08 | |
| Time | 05:06:00 to 08:09:00 | |
| Type | hall | |
| Price | 15000.00 | |

Figure D.2 Bill details report

A Staff full details report



Loyolas
Wedding hall
St.Patricks Road, Jaffna

e-mail address : loyola0405@gmail.com

Contact Number (Office): 0212221340
Contact Number (Mobile): 0777734083

Staff Full Details

| | |
|-------------------------|-----------------|
| Staff ID | ST0005 |
| Staff Name | Kapil |
| NIC Number | 921564789V |
| Gender | Male |
| Date of Birth | 1992-06-04 |
| Designation | Staff |
| Join Date | 2017-08-02 |
| Email Address | kapil@gmail.com |
| Telephone Number | 715698524 |
| Address | Araly |

Figure D.3 Individual Staff report

Figure D.3 shows an individual staff report

Booking details report

Figure D.4 shows booking all details as date wise.


| Loyolas | | Wedding hall | | St. Patricks Road, Jaffna. | |
|---|------------|--------------|--|----------------------------|--|
|  | | |  | | |
| e-mail address : loyola0405@gmail.com | | | Contact Number (Office): 0212221340 Contact Number (Mobile): 0777734083 | | |
| Booking Details | | | | | |
| Start Date | 2017-01-01 | | | | |
| End Date | 2017-10-30 | | | | |
| Booking Details | | | | | |
| Booking Id | Status | Reserve Date | Customer Id | Type | |
| B0001 | Accept | 2017-05-08 | CUS0001 | Hall | |
| B0002 | Accept | 2017-05-08 | CUS0001 | Makeup | |
| B0003 | Accept | 2017-05-09 | CUS0002 | Video | |
| B0004 | Accept | 2017-05-09 | CUS0002 | Meal | |
| B0005 | Accept | 2017-05-13 | CUS0001 | Meal | |
| B0006 | Accept | 2017-10-08 | CUS0007 | Hall | |
| B0007 | Accept | 2017-10-08 | CUS0007 | Makeup | |
| B0008 | Accept | 2017-10-08 | CUS0007 | Meal | |
| B0009 | Accept | 2017-10-08 | CUS0007 | Video | |
| B0010 | Accept | 2017-10-10 | CUS0008 | Hall | |
| B0011 | Accept | 2017-10-10 | CUS0008 | Meal | |
| B0012 | Accept | 2017-10-11 | CUS0006 | Hall | |
| B0013 | Accept | 2017-10-12 | CUS0006 | Video | |
| B0014 | Accept | 2017-10-12 | CUS0006 | Meal | |
| B0015 | Accept | 2017-10-14 | CUS0003 | Hall | |
| B0016 | Accept | 2017-10-14 | CUS0003 | Makeup | |
| B0017 | Accept | 2017-10-14 | CUS0003 | Video | |
| B0018 | Accept | 2017-10-14 | CUS0003 | Meal | |
| B0019 | Accept | 2017-10-16 | CUS0009 | Hall | |
| B0020 | Accept | 2017-10-16 | CUS0009 | Makeup | |
| B0021 | Accept | 2017-10-16 | CUS0009 | Video | |

Figure D.4 Booking details report

Hall booking details report

Figure D.5 show hall booking details report according date wise

|  | | Loyolas | |  | | | |
|---|------------|--|---------------|---|----------|------|-----------------|
| e-mail address : loyola0405@gmail.com | | Wedding hall St.Patricks Road, Jaffna | | Contact Number (Office): 0212221340 Contact Number (Mobile): 0777734083 | | | |
| Hall Booking Details | | | | | | | |
| Start Date | | | | 2017-01-01 | | | |
| End Date | | | | 2017-10-30 | | | |
| Hall Booking Details | | | | | | | |
| Details Id | Booking Id | Hall Id | Function Date | Start Time | End Time | Type | Function For |
| BD0001 | B0001 | H003 | 2017-05-08 | 05:06:00 | 08:09:00 | half | reception |
| BD0002 | B0006 | H001 | 2017-10-08 | 09:00:00 | 04:00:00 | full | wedding |
| BD0003 | B0010 | H002 | 2017-10-10 | 08:00:00 | 03:00:00 | full | pubertyceremony |
| BD0004 | B0012 | H003 | 2017-10-12 | 03:00:00 | 10:00:00 | half | reception |
| BD0006 | B0019 | H002 | 2017-10-16 | 04:00:00 | 12:00:00 | half | reception |

Figure D.5 Hall booking details

Customer Detail Report

Figure D.6 shows report of the customers

| Customer Details | |
|-------------------|------------|
| Start Date | 1950-01-01 |
| End Date | 2017-10-30 |

| Customer Details | | | | | | | |
|------------------|---------------|------------|-----------|---------------|----------------------|------------------|---------------------------|
| Customer Id | Customer Name | NIC Number | Gender Id | Date of Birth | Email | Telephone Number | Address |
| CUS0001 | Mainthan | 902502408V | Male | 1990-09-06 | asd@gmail.com | 771234567 | Jaffna |
| CUS0002 | Fiona | 897601892V | Female | 1989-09-16 | fiona@gmail.com | 774567893 | Manipay |
| CUS0003 | Kajani | 915502408V | Female | 1991-02-19 | kajani98@gmail.com | 773490697 | Jaffna |
| CUS0004 | Benadict | 551268965V | Male | 1955-05-05 | | 775436101 | Pandaterippu |
| CUS0005 | S.Harish | 852407892V | Male | 1985-08-27 | harish18@gmail.com | 778935420 | 827,Hospital Road, Jaffna |
| CUS0006 | Benedict | 651254763V | Male | 1965-05-04 | benedict01@gmail.com | 773490697 | Ilavalai |
| CUS0007 | Naayaki | 785682156V | Female | 1978-03-08 | | 773472797 | Manipay |
| CUS0008 | Harish | 790455786V | Male | 1979-02-14 | harish7685@gmail.com | 773490697 | Jaffna |
| CUS0009 | raja | 847601892V | Female | 1984-09-16 | | 777734083 | jaffna |

Figure D.6 Customer details report

Beautician Details Report

Figure D.7 shows beautician report



e-mail address : loyola0405@gmail.com

Loyolas

Wedding hall
St. Patricks Road, Jaffna



Contact Number (Office): 0212221340
Contact Number (Mobile): 0777734083

Beautician Details

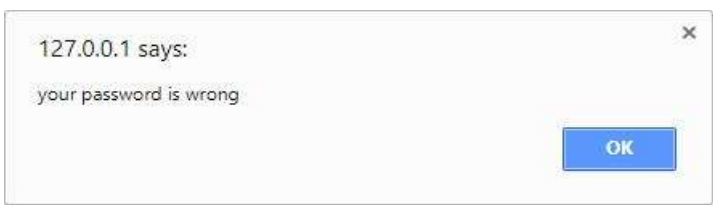
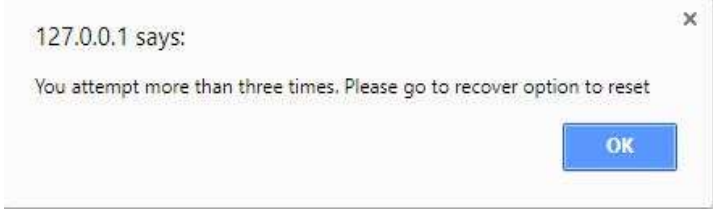

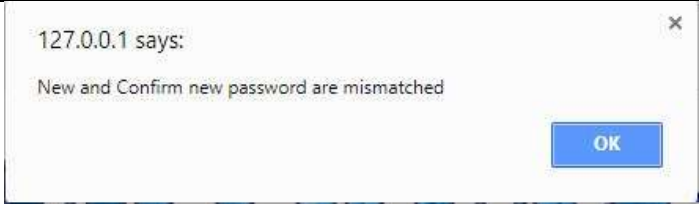
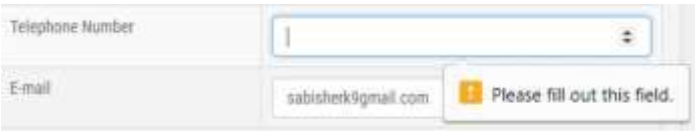

| | |
|-------------------|------------|
| Start Date | 1950-01-01 |
| End Date | 2017-10-01 |



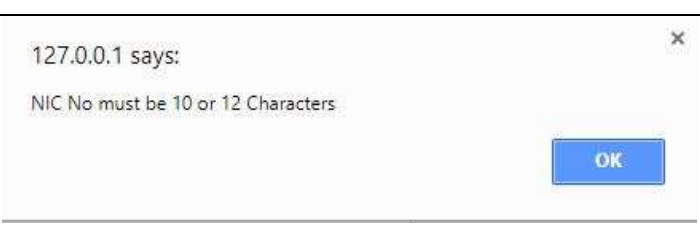


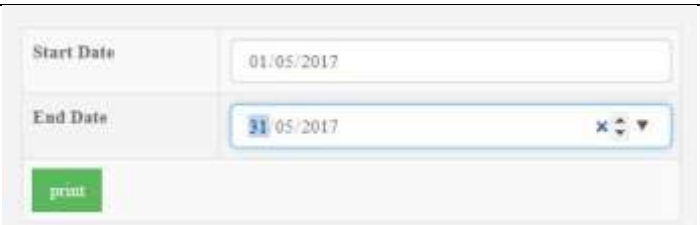
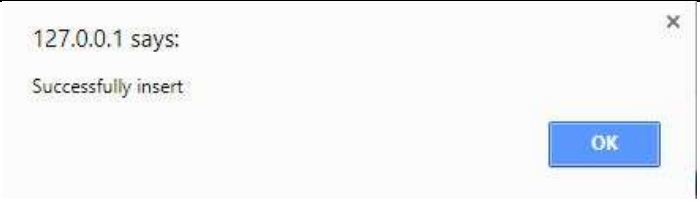
Beautician Details

| Beautician Id | Beautician Name | NIC Number | Address | Date of Birth | Gender | Telephone Number | Email |
|---------------|-----------------|------------|-----------------------|---------------|--------|------------------|---------------------|
| BE0001 | Renu | 847601894V | Jaffna | 1990-09-06 | Male | 775698421 | jeni@gmail.com |
| BE0002 | ananya | 854796524V | manipay | 1985-06-10 | Female | 775698452 | dfg@gmail.com |
| BE0003 | Sarah | 927614623V | Thavady | 1992-09-17 | Female | 773400000 | |
| BE0004 | Dale | 805684562V | Kopay | 1980-03-08 | Female | 212225695 | |
| BE0005 | S.Harisca | 925726854V | Annaikkodai | 1992-03-12 | Female | 775845632 | harisca34@gmail.com |
| BE0006 | Nayana | 925894563V | Jaffna | 1992-03-29 | Female | 775862145 | nayanasd@yahoo.com |
| BE0007 | Hamsika | 745892365V | Ariyalai | 1974-03-29 | Female | 775896541 | hamsi43@gmail.com |
| BE0008 | Miruthula | 857895632V | Patricks road, Jaffna | 1985-10-15 | Female | 758963214 | miru65@gmail.com |

Figure D.7 Beautician details report

Appendix E – Test Result

| No | Test | Screenshot | Status |
|----|--|--|--------|
| 01 | When enter wrong username or password |  | Pass |
| 02 | If enter wrong password more than three times |  | Pass |
| 03 | In change password, when enter wrong current password |  | Pass |
| 04 | In change password, when enter new password and new confirm password are different |  | Pass |
| 05 | When required fields are not entered |  | Pass |
| 06 | When enter wrong email address |  | Pass |

| | | | |
|----|---|--|------|
| 07 | When enter less or more than 10 digits number for mobile number. |  | Pass |
| 08 | When enter 10 digits NIC number, first nine number must be number, if is not |  | Pass |
| 09 | When enter NIC number, It must be 10 or 12 characters, if is not |  | Pass |
| 10 | When enter 10 digits NIC number, last character must be 'V' or 'X'. If is not |  | Pass |
| 11 | The date picker |  | Pass |
| 12 | Date selection for print report |  | Pass |
| 13 | When insert data successfully |  | Pass |

| 14 | When edit data successfully |  | Pass | | | | | | | | | | | | | | | |
|----------|-----------------------------|--|----------|---|------------|--------|--------|-------|------|-----------|------|---|-------|-----------|----------|------|---|------|
| 15 | Confirm to delete a data |  | Pass | | | | | | | | | | | | | | | |
| 16 | Successful delete data |  | Pass | | | | | | | | | | | | | | | |
| 17 | When network problem |  | Pass | | | | | | | | | | | | | | | |
| 18 | Searching data |  <table border="1" data-bbox="598 1126 1299 1283"> <thead> <tr> <th>Staff ID</th> <th>Staff Name</th> <th>NIC Number</th> <th>Gender</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>ST004</td> <td>Fred</td> <td>E3204021V</td> <td>Male</td> <td> <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> </td> </tr> <tr> <td>ST005</td> <td>Peterabun</td> <td>E110509W</td> <td>Male</td> <td> <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> </td> </tr> </tbody> </table> | Staff ID | Staff Name | NIC Number | Gender | Action | ST004 | Fred | E3204021V | Male | <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | ST005 | Peterabun | E110509W | Male | <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | Pass |
| Staff ID | Staff Name | NIC Number | Gender | Action | | | | | | | | | | | | | | |
| ST004 | Fred | E3204021V | Male | <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | | | | | | | | | | | | | | |
| ST005 | Peterabun | E110509W | Male | <input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> | | | | | | | | | | | | | | |
| 19 | Enter wrong URL |  <p data-bbox="598 1305 1299 1350">← → ↻ ⓘ 127.0.0.1/loyola/index.php</p> <h2 data-bbox="598 1373 1299 1417">Not Found</h2> <p data-bbox="598 1462 1299 1496">The requested URL /loyola/index.php was not found on this server.</p> | Pass | | | | | | | | | | | | | | | |

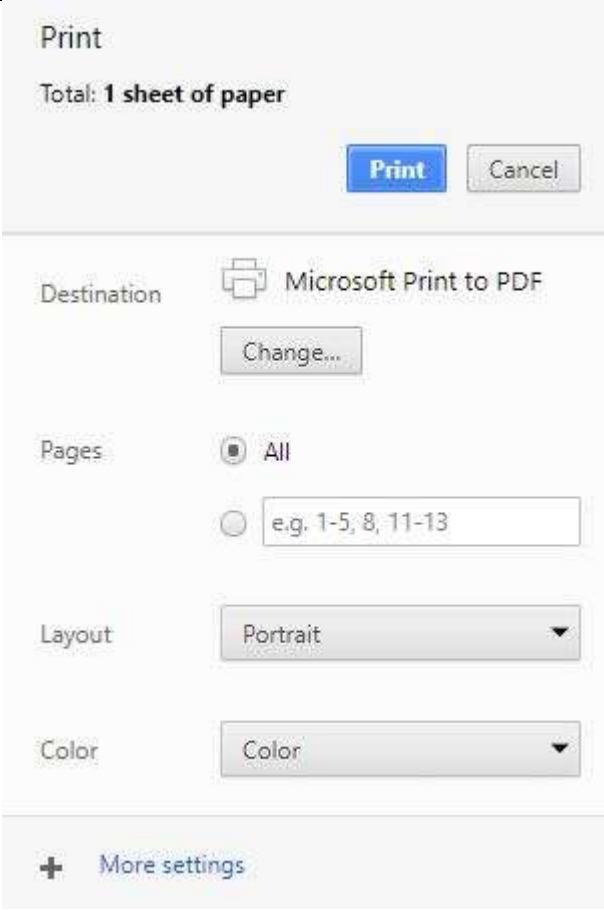

| | | | |
|----|------------------------------------|--|------|
| 20 | Print option |  | Pass |
| 21 | When enter wrong verification code |  | Pass |

Table E.1 Test results

Appendix F – Code Listing

ID generation coding

```
<?php
    $sqlstaffid="SELECT staffid FROM staff ORDER BY staffid DESC LIMIT 1";
    $resultstaffid=mysql_query($sqlstaffid)or die("sql error in sqlstaffid".mysql_error());
    if(mysql_num_rows($resultstaffid)>0)
    {
        $rowstaffid=mysql_fetch_assoc($resultstaffid);
        $staffid=++$rowstaffid["staffid"];
    }
    else
    {
        $staffid="ST0001";
    }
    ?><input type="text" class="form-control" name="txtstaffid" id="txtstaffid"
value="<?php echo $staffid; ?>" readonly> </td>
```

Option load in hall booking details

```
<tr>
    <td> Hall Name </td> <td>
    <select class="form-control" name="txthallid" id="txthallid" required>
    <option value="select_hall"> Select the Hall </option>
    <?php
        $sqlhallload="SELECT hallid,hallname FROM hall";
        $resulthallload=mysql_query($sqlhallload)or die("sql error in
sqlhallload".mysql_error());
        while($rowhallload=mysql_fetch_assoc($resulthallload))
        {
            echo'<option value="'.$rowhallload["hallid"]."'> '.$rowhallload["hallname"].'
</option>';
        }
    ?>
    </select></td>
</tr>
```

Text validation

```
function isTextKey(evt) // only text to allow the input field
{
    var charCode = (evt.which) ? evt.which : event.keyCode;
    if (((charCode >64 && charCode < 91)||charCode >96 && charCode < 123)||charCode
    ==08 || charCode ==127||charCode ==32||charCode
    ==46)&&(!(evt.ctrlKey&&(charCode==118||charCode==86))))
        return true;

    return false;
}
<tr> <td> Staff Name </td> <td>
<input type="text" class="form-control" name="txtstaffname" id="txtstaffname"
onkeypress="return isTextKey(event)" required> </td>
</tr>
```

Number validation

```
function isNumberKey(evt) // only numbers to allow the input field
{
    var charCode = (evt.which) ? evt.which : event.keyCode;
    if (charCode != 46 && charCode > 31 && (charCode < 48 || charCode > 57))
        return false;

    return true;
}
<tr> <td> Telephone Number </td> <td>
    <input type="number" class="form-control" name="txttpnumber"
onblur="phonenumber()" id="txttpnumber" onkeypress="return isNumberKey(event)"
required> </td>
</tr>
```

Phone number Validation

```
function phonenumber() // Mobile No
{
    var phoneno = /^\d{10}$/;
    if(document.getElementById("txtmobilenumber").value=="")
    {
```

```

    }
    else
    {
        if( document.getElementById("txtmobilenumber").value.match(phoneno))
        {
            //return true;
            hand();
        }
        else
        {
            alert("Enter 10 digit Mobile Number");
            document.getElementById("txtmobilenumber").value="";
            document.getElementById("txtmobilenumber").focus()=true;
            return false;
        }
    }
}

```

```

function hand()
{
    var str = document.getElementById("txtmobilenumber").value;
    var res = str.substring(0, 2);
    if(res=="07")
    {
        return true;
    }
    else
    {
        alert("enter 10 digit of Mobile Number");
        document.getElementById("txtmobilenumber").value="";
        document.getElementById("txtmobilenumber").focus()=true;
        return false;
    }
}

```

```

<tr> <td> Telephone Number </td> <td> <input type="number" class="form-control"
name="txttppnumber" onblur="phonenumber()" id="txttppnumber" onkeypress="return
isNumberKey(event)" required> </td>

```

</tr>

Date of Birth calculation

```
function calculatedob(nic)
{
    var xmlhttp = new XMLHttpRequest();
    //var page = <?php echo json_encode($pagename); ?>;
    xmlhttp.onreadystatechange = function()
    {
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200)
        {
            if(xmlhttp.responseText==0)
            {
                alert("Your age is less than 18; you cannot register as user");
                document.getElementById("txtnic").value="";
                document.getElementById("txtnic").focus();
                if(page=="customer" || page=="register")
                {
                    document.getElementById("txtdateofbirth").value="";
                }
                else
                {
                    document.getElementById("txtdate").value="";
                }
            }
            else
            {

                if(page=="customer" || page=="register")
                {
                    document.getElementById("txtdateofbirth").value = xmlhttp.responseText;
                    eligibleniccus(nic);
                }
                else
                {
                    document.getElementById("txtdate").value = xmlhttp.responseText;
                    eligiblenicstaff(nic);
                }
            }
        }
    }
}
```

```

    }
}
};
xmlhttp.open("GET", "ajaxpage.php?frompage=dob&dobcal=" + nic, true);
xmlhttp.send();
}

```

Delete Data

```

function deletedata()
{
    var x=confirm("Are you sure do you want to delete this data?");
    if(x)
    {
        return true;
    }
    else
    {
        return false;
    }
}

```

Edit data of Hall details

```

if($_GET["option"]=="edit")
{
    $hallid=$_GET["hallid"];
    $sqlhalledit="SELECT * FROM hall WHERE hallid='$hallid'";
    $resulthalledit=mysql_query($sqlhalledit)or die("sql error in
sqlhalledit".mysql_error());
    $rowhalledit=mysql_fetch_assoc($resulthalledit);
    echo '<form name="halledit" id="halledit" action="" method="POST">';
    echo '<div class="row">
        <div class="col-lg-6">
            <div class="panel panel-default">
                <div class="panel-heading">
                    Hall Edit
                </div>
                <div class="panel-body">

```

```

        <div class="table-responsive">
            <table class="table table-striped table-bordered table-hover"
id="dataTables-example">;
echo'<tr><th> Hall ID</th><td>
<input type="text" class="form-control" readonly name="txthallid" id="txthallid"
value="'. $rowhalledit["hallid"]. "'> </td> </tr>';
echo'<tr>
<th> Hall Name </th>
<td><input type="text" class="form-control" name="txthallname" id="txthallname" required
value="'. $rowhalledit["hallname"]. "'> </td>
</tr>';
echo'<tr>
<th> Number of Attendance </th>
<td><input type="number" class="form-control" name="txtnumberofattendance" required
onkeypress="return isNumberKey(event)" id="txtnumberofattendance"
value="'. $rowhalledit["numberofattendance"]. "'> </td>
</tr>';
echo'<tr>
<th> Description </th>
<td><input type="text" class="form-control" name="txtdescription" id="txtdescription"
value="'. $rowhalledit["discription"]. "'> </td>
</tr>';
echo'<tr>
<th> A/C </th>
<td>
<select class="form-control" name="txtac" id="txtac">;
$stype=array("Yes","No");
for($x=0;$x<count($stype);$x++)
{
    if($rowhalledit["ac"]== $stype[$x])
    {
        echo '<option selected value="'. $stype[$x]. "'>'. $stype[$x]. '</option>';
    }
    else
    {
        echo '<option value="'. $stype[$x]. "'>'. $stype[$x]. '</option>';
    }
}

```

```

}
echo '</select></td>'
</tr>';
echo '<tr><th> TV </th>'
<td><select class="form-control" name="txttv" id="txttv">';
$type=array("Yes","No");
for($x=0;$x<count($type);$x++)
{
    if($rowhalledit["tv"]== $type[$x])
    {
        echo '<option selected value="'. $type[$x]. "'>'. $type[$x]. '</option>';
    }
    else
    {
        echo '<option value="'. $type[$x]. "'>'. $type[$x]. '</option>';
    }
}
echo '</select></td> </tr>';
echo '<tr>'
<th> Chairs/Table </th>
<td><select class="form-control" name="txtchairstable" id="txtchairstable">';
$type=array("Both","Chairs","Table");
for($x=0;$x<count($type);$x++)
{
    if($rowhalledit["chairs_table"]== $type[$x])
    {
        echo '<option selected value="'. $type[$x]. "'>'. $type[$x]. '</option>';
    }
    else
    {
        echo '<option value="'. $type[$x]. "'>'. $type[$x]. '</option>';
    }
}
echo '</select></td> </tr>';
echo '<tr><td colspan="2"><a href="index.php?pg=hall.php&option=view">
<input class="btn btn-primary" type="button" value="Go Back"></a>
<input class="btn btn-info" type="reset" name="btnreset" id="btnreset" value="Reset">

```

```

<input class="btn btn-success" type="submit" name="btnsubmitted" id="btnsubmitted"
value="Save Changes"></td></tr>';
echo'</table></div></div></div></div></div>';
echo '</form>';
}

```

Update Coding of Staff

```

if(isset($_POST["btnsubmitted"]))
{
    $sqlstaffupdate="UPDATE staff SET
    staffname=".mysql_real_escape_string($_POST["txtstaffname"]).",
    nic=".mysql_real_escape_string($_POST["txtnic"]).",
    gender=".mysql_real_escape_string($_POST["txtgender"]).",
    dob=".mysql_real_escape_string($_POST["txtdob"]).",
    designation=".mysql_real_escape_string($_POST["txtdesignation"]).",
    joindate=".mysql_real_escape_string($_POST["txtjoindate"]).",
    email=".mysql_real_escape_string($_POST["txtemail"]).",
    tpnum=".mysql_real_escape_string($_POST["txttpnumber"]).",
    address=".mysql_real_escape_string($_POST["txtaddress"])."
    WHERE staffid=".$_POST["txtstaffid"].""";
    $resultsatffupdate=mysql_query($sqlstaffupdate)or die("sql error in
sqlstaffupdate".mysql_error());
    if($resultsatffupdate)
    {
        echo<script>alert("Successfully updated");

        window.location.href="index.php?pg=staff.php&option=fullview&staffid=".$_POST["txtstaffi
d"]."";</script>;
    }
}

```


Appendix G – Client Certificate

| | | |
|--|--|---|
|  | Loyolas Wedding hall St.Patricks Road, Jaffna |  |
| e-mail address : loyola0405@gmail.com | | Contact Number (Office): 0212221340 Contact Number (Mobile): 0777734083 |
| 02.11.2017 | | |
| BIT Coordinator, University of Colombo School of Computing, Colombo 07. | | |
| Dear Sir/ Madam, | | |
| Letter of Certification | | |
| This is certify that Miss.Elan Yalini Antony Victor (847601892V) has successfully designed and developed a web based management system for Loyolas Wedding Hall. The project was undertaken by his partial fulfillment of a requirements for the Bachelor of Information Technology Degree Program. | | |
| The system was fully satisfied with our requirements and this system, web based management system would be solution for us and our customer. From this system, customer can easily make booking through online and also enabled the smooth operation of our wedding hall to manage bookings . It has enhanced our relationship with customer. I'm pleased to certify that the system developed by Miss.Elan Yalini Antony Victor fulfill the requirements of the wedding hall and could be used as our management system and host to public use. | | |
| Thank you | | |
| Yours Faithfully | | |
|  | | |
| Mr.A.C.Loyola | PROPRIETOR (A.C.Loyola) LOYOLAS | |
| Owner, Loyolas Wedding Hall, Jaffna. | | |

GLOSSARY

AJAX (Asynchronous JavaScript and XML) - is a group of interrelated web development methods used on the client-side to create interactive web applications.

Apache – Open source web server.

CSS (Cascading Style Sheet) - is a style sheet language used to describe the presentation semantics (the look and formatting) of a document written in a mark-up language

Database – is an organized collection of data for one or more purposes, usually in digital form.

Domain - is knowledge about the environment in which the target system operates.

GUI (Graphical User Interface) - is a type of user interface that allows users to interact with electronic devices with images rather than text commands.

JavaScript – it is one of the Client-side scripting languages.

OO – Object Oriented, is an approach to designing modular, reusable software systems.

PHP – Hypertext Pre-Processor, it is one of the famous server side scripting languages.

SDLC – Software Development Life Cycle is a structure imposed on the development of a software product.

UML – Unified Modeling Language, is a graphical language for visualizing, specifying, constructing and documenting the artifacts of a software-intensive system.

Validation – Checking whether the system satisfies user requirements.

Verification - Checking whether the system satisfies system specification

WWW (World Wide Web) - is a system of interlinked hypertext documents accessed via the Internet.

Web browser - is a software which allows the user to access WWW.