

Wedding Book

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Wedding Book

**A dissertation submitted for the Degree of Master of
Information Technology**

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Declaration

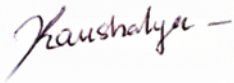
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To the best of my knowledge, it does not contain any material published or written by another person, except as acknowledged in the text.

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This is to certify that this thesis is based on the work of Ms.L.A.H.Shehani Kaushalya under my supervision. The thesis has been prepared according to the format stipulated and is of acceptable standard.

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Abstract

This project presents an online marketing web application for wedding vendors and public users who plan their weddings. The “WeddingBook” application does marketing & facilitates a specific selection platform for wedding vendors & customers. Nowadays we can see huge competition among wedding vendors and they have to put in a big effort to do their marketing on social media platforms. When it comes to the customer side, they spend more time finding the perfect vendor service provider by contacting or visiting their locations or wedding exhibitions. And also visiting any vendor places can be difficult with the covid pandemic situations. Based on these observed problems system architecture had been designed to address identified gaps of the business domain and achieve the functional and nonfunctional requirements.

This has been designed based on the 3 user roles; such as administrator, public user and vendor. This application was developed to facilitate different sets of functionalities; such as vendor profile registration & creation, publishing advertisement, online payment process, managing vendor profiles, social media marketing, searching & filtering vendor locations/business profiles, searching available advertisements, checking availability of vendor service, adding and searching reviews and ratings.

The Wedding book web application was developed using Laravel framework, PHP, MySQL database platforms. The Development approach was planned based on the agile methodologies. Testing and evaluation had been done to verify the quality of the application based on the quality assurance and quality control testing standards.

The implemented wedding book web application has been provided competitive online marketing platform to vendors and user-friendly selection platform to any public users with the purpose of finding a beautiful variety of wedding styles across Sri Lanka based on the latest wedding ideas and inspiration.

Acknowledgement

First, I would like to express my special thanks to my supervisors, for immensely supporting me in transforming a raw and the core business idea into an application and my family for motivating me to pursue towards this project concept and

Similarly, I am grateful for the wedding vendors and marrying, as well as married couples, who lavishly shared their views and feedback on developing a well-structured application which would cater exactly the requirement in the market.

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List of Acronyms

- MVC - Model–view–controller
- FB – Face Book
- UML - Unified Modeling Language
- ER – Entity Relationship

Chapter 1: Introduction

1.1 Project Overview

Nowadays people make a busy life with their personal needs and wants. When it comes to the younger generation, they are really keen on doing everything in different ways. So, celebrating wedding functions takes the best part of their life and young people are giving high priority to planning their weddings.

If we take wedding exhibitions and social media marketing campaigns, we can experience several limitations and issues that vendors and customers are facing.

And also, considering the current Coronavirus pandemic situation in Sri Lanka, everyone has limitations for travelling to find out the best places for their wedding ceremonies. People who are willing to marry always have to think of their dream wedding and plan the occasions without visiting vendors' places.

I am an entrepreneur who likes to start my own novel business. I have developed a "Wedding Book" web application as a solution for the observed problems of wedding vendors and people who are planning their weddings, to meet all the solutions of requirements in one online marketing platform.

1.2 Motivation

Following observed problems motivated me to find out the solution for addressing limitations and issues of wedding vendors and customers.

Social media experiment

I noticed the issue through a social media group. There is a "facebook" group which is called "The real wedding talk ". According to real-life experiences, there are observed problems that people are facing there. At this social media group, the couples who are waiting to be brides and grooms in the near future while searching wedding services and

accessories, raising their problems & asking for recommendations. The vendors are responsible for responding to comments for each and every post. Most of the time, the same question is repeated after some time.

As we all can understand, it's really a waste of time for vendors by answering the same questions. And, if vendors are away from the online group, they might miss the business opportunities.

Wedding Exhibition experiment (BMICH -Colombo / Kzone – Ja-ela)

The next observation comes with the real world environment. I experienced it, when I was in Wedding exhibition at BMICH Colombo & Kzone Ja-Ela. Normally there are different vendors from different categories. And, there were many couples who were planning to get married in the near future.

At that time, the following concerns have been experienced in a wedding exhibition by myself.

Such as;

- Lack of time for visiting all the stalls and checking date availability for function scheduled date.
- Distance matters from attending an exhibition.
- Crowded stalls lose business opportunities for some customers. Etc.

Limitation to visit places of vendors in coronavirus pandemic situations.

Due to the current situation of Sri Lanka, People have limitation to travel and visit places. And exhibitions also have been cancelled due to that. Then people will not get any chance to have an idea about current price rates within a common platform like they do in exhibition. By considering the pandemic situation people may not get a chance to have an overall idea about offers, discounts, and promotions given by the different set of vendors. Sometimes they might miss the best offers based on their selections.

1.3 Statement of the Problem

As a Sri Lankan, we can see the different wedding traditions in our country. Most people try to find out the best wedding vendors with their own selection of requirements. But if we take the above mentioned real word scenarios, vendors and customers are having different kinds of limitations and concerns in this field of business.

There is no common virtual platform to address vendor's marketing issues and communication barriers to reach out customers. And also, people who are planning their weddings, have to waste more money, time and effort to find their perfect service providers. Nowadays Vendors and customers mainly facing a severe issue in this corona pandemic situation.

By considering the above fields of problems, I was planning to develop an online wedding platform by answering the problems when people are finding perfect wedding vendors and marketing issues of wedding vendors.

Finding perfect wedding vendors can be a hard task since everyone is having different kinds of perfection with their own selection. It's good if there is one platform to find out Sri Lankan wedding vendors with their business details, photos & video gallery, checking availability of the vendors for required dates, online transactions, package details, promotions, offers, advertisements and other information at one place.

1.4 Aims, and Objectives

This "WeddingBook" application does marketing & facilitates a specific platform for wedding vendors & customers. It gives one selection platform for people who are planning their weddings. Anyone can discover all the Sri Lankan best wedding vendors at this site.

- Introducing virtual platform with the purpose of gathering all the vendor types into one place.
- Providing online marketing facilities for vendors.
- Vendors can introduce the latest designs and packages, discounts and promotions at wedding book site.

- Wedding vendors can advertise their “Business profiles”.
 - Business profile includes,
 - About the business.
 - Details of the packages, photos.
 - Contact details of vendors.
 - Customer reviews and ratings.

- Providing a virtual vendor selection platform for people who are planning to marry.
- Application facilities to public users for searching, filtering, contacting vendors, writing reviews and referring ratings.
- Customers can check the date and time availability of the vendor service through this application.
- Reducing the time of vendors for replying user’s problems at social media groups.
- Providing facility for publishing advertisements of vendors.
- Increasing the efficiency of vendors’ work.
- Reducing time of couples when planning & organizing the wedding events.
- Reducing the cost of couples when finding perfect vendors. (Ex: Reduce transport cost, other extra expenses, etc.)
- Business Profiles can be shared with social media (Ex: FaceBook)

1.5 Scope of the study

The scope of wedding book web application stretches from the advertising of businesses of vendors and allows customers to find the perfect product and service suppliers platform based on the customer requirements with their satisfaction.

With this scope of study, it is essential to understand vendor and public users' requirements and the limitations. The whole approach of the delivery is mainly based on the requirements of the users of this application.

Users of the Application:

As shown in Figure 1.1, there are 3 categories of users aligned with the scope of the business requirements.

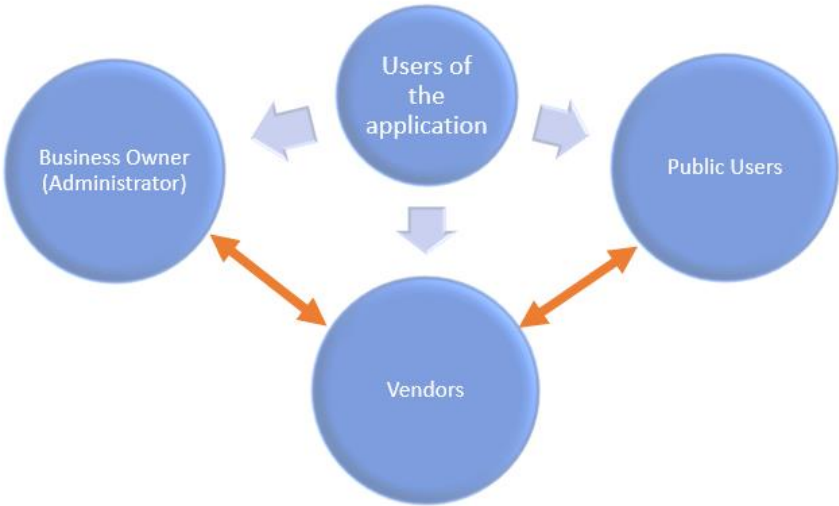


Figure 1.1: Users of wedding book Application

Administrator always communicates with vendors and they are not going to directly contact the public users. All the communication from the administrator side happens with vendors. Public users can have direct communication with vendors. In this application vendors act as a middle layer user.

All the scope of the system requirements has been addressed based on the expectation of each user to meet the business requirements. Administrator and vendors have their separate login for the application, but public users can use the application without having any user login.

Wedding Book Administrator (Business Owner):

They are the owner of the business and responsible for making the wedding book web application more useful to the business and keep the application up to date to achieve the business goals and maintain it to gain the higher business growth.

- Administrator mainly responsible for vendor profile approval & registration process. This application allows administrators to review registered users with the application. Administer can approve the registration request based on the business rules and regulations.
- Administrator can send the invoice and enable the online payment facility.
- Administrator needs to closely monitor the payment process and maintain financial activities of the business to ensure reliability of each involved party.
- Application allows admin to activate the page at their web site, after receiving the payment from the vendor party.
- Business owner must mainly think of the marketing side of the business. So that application has been allowed to share the business profile in social media. And also, with the reviews and ratings, business owner can make more decisions for business growth.
- When vendors have some advertisements based on their seasonal occasions or any other personal requirements, The administrator is responsible to publish and manage them after making online payments from the vendor site.
- Administrator must maintain the application based on the vendors and public users' requirements.
- Administrator has ability to remove vendor profiles from the application.
- Administrator can generate required business reports through the application.
- Administrator always keep in contact with vendors and communicate any business news and profile alerts and notifications that they want to be aware of as the registered vendors.

Wedding Vendors:

Only Sri Lankan Wedding Vendors can publish their business profile at “WeddingBook” website. Initially the application allows the following categories of vendors to register their business profile with the application.

Vendor Types:

- Wedding Hotels
 - Wedding Photographers & Videographers
 - Salons
 - Florists
 - Cakes and Cards
- Vendors can register with the wedding book application by providing all the required information that they want to publish.
 - Vendors receive invoice from the administrator and application allows vendors to make the online payment for publishing the business profile at the web site. (Total invoice depends on the content and capacity)
 - Vendors can advertise their advertisements on the home page. It requires additional payment to publish the advertisements. Registered vendors can do the online payment and can publish their advertisements.
 - Vendors can share the business profile and advertisements with social media (Facebook) to reach out to different target populations and make more attractive to their services.
 - Vendors receive “Date and time check availability” requests from the customer side. Based on the requests, vendors can contact users through the mobile number and can discuss or explain more about their available services.
 - Vendors can easily find out scheduled dates and time as well as new customer “check availability” requests through the vendor scheduling calendar.

- The application allows vendors to approve or decline the customer’s “date and time check availability” request in the vendor scheduling calendar.
- Application allows vendors to see reviews and ratings added by customers.
- And, vendors may have ideas about the competitors in the industry and they can propose new things based on the demand of the customers.

Public Users:

People who are planning their weddings and any other users can use the application to find out the perfect wedding vendors. Public users can search beautiful variety of wedding styles across the Sri Lanka with latest wedding ideas with inspiration.

- Application will be provided to facilitate filtering locations when they are searching vendors.

(Location filtering path – vendor type -> district -> city)



Figure 1.2: Districts of Sri Lanka

Application allows users to search the vendors based on the district basis. As shown in Figure 1.2, there are 25 districts of Sri Lanka. Then Users can easily search vendor places based on the service location that they are planning to celebrate. Otherwise, users have to search each and every registered vendor shop to find out expected service locations.

- Public users can view any available vendor's business profile. Business Profile provides information about business name, logo, service locations, packages, photo gallery, contact information etc. With that Users can find out their perfect match.
- First and foremost, most of the customers check the availability of the service for the relevant dates. So that it is important to check the availability of vendor service on the particular date. Based on this requirement, the application allowed to check the availability of the service for the required date and time through the "check availability calendar".
- Users can write reviews and add/search ratings of vendors. This motivates other users to reach out to vendors and also this provides more value for the application.
- If a public user wants and recommends any vendors to their friends, they can share any business profile with social media.

1.6 Feasibility study

The proposed system facilitates the advertising of different categories of vendors at one platform and customers can find different vendors from the same platform. It is important to have a one platform to find most required vendor places based on the locations.

Operational Feasibility

Operations of the proposed system based on the 3 user roles.

1. Administrator
2. Vendors
3. Public users

Application allows administrator to get more vendors to register with the application and maintain them by providing the better service. Currently only a few categories of vendors can register and publish their business profile. Application allows access to any persons who like to visit the web page.

Technical Feasibility

The agile process has been followed since it's really an essay to adopt with any modification at the middle of the process. In every sprint it delivers a testable component. With that we can find out the bugs in early stages. First, I hope to define epics under that write down all the user stories which are related to requirements. Then after prioritizing the work, I started actual implementation as well as static testing. Then with the development It moved into dynamic testing. This application allows users to interact with a remote server through a web browser interface.

Social Feasibility

With the current situation of Sri Lankan, it is better to have a virtual platform than visiting actual places. So, this kind of virtual platform makes everyone work easier and faster. Based on the requirements of the virtual platform It is easy to introduce and make aware customers about this application. And this application allows us to use different social categories without considering the cultural differences of the society.

Economic Feasibility

Wedding Book web application allows users to save money for travelling. Customers do not need to visit more places to check the availability and information. And Public users do not require registered login or payment to initiate communications. So, this is a more money saving application for public users. And vendors also can find more customers by publishing their profiles and advertisements.

1.7 Structure of the thesis

Chapter 2 – Background

Analysis of the requirements and reviews of the similar systems are discussed.

Chapter 3 – Design

The design diagrams and the methodologies used in the system designing, are discussed.

Chapter 4 - Implementation

Implementation tools, techniques and development approaches are listed and described.

Chapter 5 - Testing and Evaluation

The system has been tested and evaluated based on the test results and user feedback.

Chapter 6 - Conclusion

Success of the project and future work are mentioned.

Chapter 2: Background

2.1 Introduction

Requirement gathering takes the major and Initial step before we start any implementation. Requirement gathering process and referring to a similar system led me to come up with a most required functional and nonfunctional list of requirements for my proposed system.

The Proposed system will facilitate useful functions and fill the gaps that have been already identified. The proposed system acts as the common platform to meet 3 parties such as business owner, vendors, and public users with the same virtual platform.

Nowadays we can see there are some websites that are providing wedding planning information and services. When referring to similar systems, several functional and nonfunctional requirement gaps have been identified and the improvements could be implemented with the proposed system.

2.2 Requirement analysis

Requirement analysis is most essential to achieve before we move into the design phase of the system. It helps determine requirements of actual users of the systems by considering business requirements. That allows the technical team to come with solid system requirements. At the same time, it enables the software developers to communicate and understand the expected functional and nonfunctional requirements of the application analyzed by the product or client party.

Requirements have been gathered using several methods. Such as Interview, questionnaires etc.

Fact Finding Methods

- **Visited vendor's places and got the requirement feedback from them:**

Initially small research has been planned to gather information with the purpose of finding issues those are facing by vendors. Several vendor places were visited and they got feedback through the interviews. In the real world they are facing a big problem to find a famous common advertising platform that can be easily accessible for any users and it gives more opportunities to the competitive market.

- **Visited wedding vendors' places/customers and got the feedback for questionnaires from vendors and customers.**

Few interviews had been done with the vendors and customers who are planning to get married in the future. I collected problems that customers and vendors are facing. With that I could get an idea about what are limitations and challenges that vendor are facing with their business work. And also, customers were having a set of concerns when finding an expected service provider. The requirements of the system have been proposed based on the feedback that they have provided

To overcome observed problems and gaps, the following functional and nonfunctional requirements have been proposed with the "Wedding Book" Application.

Functional Requirements

Under functional requirements it mainly describes what are the required functions that a “Wedding Book “web application should perform. We can analyze functional requirements based on the three user roles. Analyzed functional use cases based on the user roles of the proposed system clearly indicates in Figure 2.1.



Figure 2. 1 : Use case diagram of the wedding book application

For Business owner (Administrator):

The business owner plays the administrator role of the application and responsible for maintaining and providing required services to vendors as well as public users. Following requirements have been implemented through the proposed system.

- Maintaining and verifying vendor profile registration.

- Reviewing business profile of vendors and sending required payment amount for vendor registration based on the content.
- Managing online vendor registration payment process.
- Activating vendor business profile at wedding book site after completing payment process by the vendor.
- Managing user profiles (activate & deactivate user profiles)
- Approving advertisement requests sent by registered vendors.
- Managing online advertising payment process.
- Handling notifications, news alerts of vendor profiles.
- Handling social media marketing.
- Generating management information system reports and managing admin profiles.

For Vendors:

Vendors can publish the business profiles at wedding book site and they always interact with the public users to provide their services. Following requirements have been identified from the vendor side.

- Providing relevant business information for the registration process at wedding book web site.
- Sending registration requests to administrator (business owner).
- Vendors can do the online payment for the invoices.
- Vendors can advertise their advertisements with the additional payment.
- Package details can be advertised at this site.
- Approving or declining date and time “check availability” scheduling calendar requests coming from the public users.

- Vendors can share business profiles with social media (Facebook).
- Vendors can see reviews and ratings added by customers.

For Public Users:

Public users can use the application to find out the perfect wedding vendors. Following are the identified functional requirements from the public user's side.

- Public users can search for a beautiful variety of wedding styles across Sri Lanka.
- Application allows public users to find out any vendor location with the easiest filtering option. (Location filtering path – district -> city-> vendor category)
- Public users can see vendor profile information and package details.
- Public users can find out the perfect selection with the photo gallery.
- Using the “Date availability checker” calendar, any user can check the availability of each vendor service for the relevant date and time before they start communicating with vendors.
- They can write and search reviews and ratings of available vendor profiles at wedding book site.
- Anyone can share the vendor profiles with social media.
- Application allows public users to see the available advertisements.
- Anyone can see information on the “Wedding Book” site and contact details of the business owner.

Nonfunctional Requirements of the application.

Nonfunctional requirements take a major part of the applications since it will directly impact the quality of the application.

- Security
- Reliability
- User friendly
- Time saving
- Browser compatibility
- Performance of the application

2.3 Review of Similar Systems

In Sri Lanka anyone can find wedding planning websites to search perfect vendor services. Following similar systems have been reviewed to analyze requirements of the proposed system.

Wedding Directory

The “Wedding Directory” web site offers you hundreds of wedding vendors of all categories enabling you to find the vendor. Anyone can view vendors’ contact details, photo galleries, location maps and send inquiries directly to the vendor. Figure 2.2 below shows the UI design of the home page.

Following modules have been implemented with this application.

- Home
- Photos
- Advertise with us
- Contact us



Figure 2. 3: Home page of Wedding Directory.lk web site

For the vendor's side:

Vendors can do following limited functionalities with wedding directory.lk web application.

- Vendor sends the message to admin with first name, last name, email, phone no, message.
- Vendors can display contact information and photo galleries with their profile.
- Vendors can receive enquiries from the customer.
- Reviews are displayed to vendors.

For the customer's side:

Customers can access the application to find out vendors. Figure 2.3 below shows the vendor profile page of Wedding Directory web application.

- Customers can select different vendor categories relevant to the location.
- Customer can get contact information & can see the photo gallery.
- Customers can write reviews.
- Customers can send enquiries to the vendor. (Facilitate allowing to do online booking)

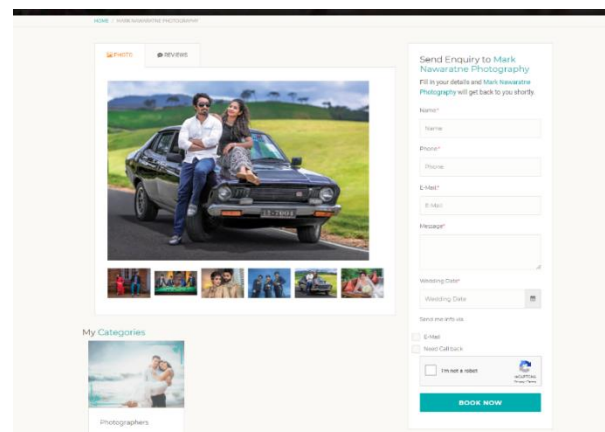


Figure 2. 4:Vendor profile page of Wedding Directory.lk web site

Observed limitations of the application:

- Less user interaction when selecting vendors according to the location map.
- Users cannot be able to get the information about packages, special offers and discounts easily.
- Users cannot check the availability before starting communication with vendors.
- Application is not allowing online chat between vendors and customers.
- Page Navigation is not user friendly.

Wedding Connections

The “Wedding Connections” web site is a professional wedding planning company started in 2015 by passionate people who understand the local wedding industry through planning many elegant and luxury weddings in Sri Lanka. After two successful years, in March 2017 the www.weddingconnections.lk website was launched to help the modern couples who want to get free access to Sri Lankan suppliers. In Figure 2.4 shows the main page of the wedding connection web site.

Following are the modules the user can see with the web application.

- Home
- Wedding Suppliers
- About US
- Contact US
- Advertise
- FAQs

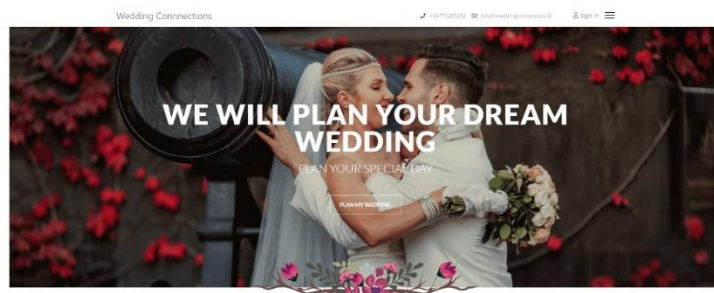


Figure 2. 5: Home page of Wedding Connections web site

For the vendor's side:

Vendors can only provide following services with the scope.

- This application facilitates vendors to publish their profile details to customers.
- Vendors can display contact information and photo galleries with their profile.
- Vendors can share the profile with social media.
- Vendors can be received information from the customers.

For the Customer's Side:

Application has been facilitated following uses for the customers.

- Customers can select vendors with available categories.
- Customers can get contact information & can see the photo gallery.
- Customers can send online request information.
- Customers can comment on vendors' profiles.
- Customers can share with profiles with social media

Observed Limitations of the application:

- Unable to select vendor's location accordingly.
- Less user interaction.
- Too many paragraphs to read user.
- Users can't get any reviews and ratings.
- Users cannot be able to identify special offers and discounts easily.
- Users cannot check the availability before start communication with vendor.

- Application is not allowing online chat between vendor and customer.
- Page Navigation is not user friendly

Siritha Wedding Planner

The “Siritha Wedding Planner” web site is the Sri Lankan wedding planning team is working together with you at any stage of the planning process to ensure that your wedding is planned to a perfect, totally enjoyable, stress free and memorable one. Following Figure 2.5 shows the home page of Siritha wedding planner web site.

Following modules have been applied to implement the web site.

- Home
- About Us
- Our services
- Testimonials
- Gallery
- Wedding Ideas
- Vendors
- Special promotions

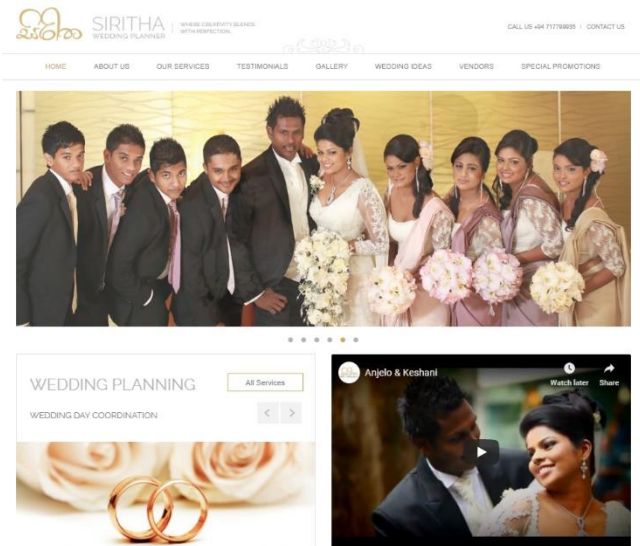


Figure 2. 6:Home page of Wedding Connections web site

This application mainly facilitates to contact wedding planners for their required services.

Observed Limitations Of the application:

- Customer cannot see the list of vendor profile in online and locations
- Less user interaction
- Users cannot be able to get the information about packages, special offers and discounts easily.
- Users cannot check the availability before starting communication with the vendor.
- Application is not allowing online chat between vendor and customer.
- Page Navigation is not user friendly.

Chapter 3: Design Architecture

3.1 Introduction

The wedding book web site design architecture chapter describes its major components, relationships between components and how they interact with each other. Several factors are included with design architecture. Such as business strategies, human dynamics, quality attributes, design, and IT environment.

Implemented design architecture provides a comprehensive description to understand how to manage the system complexity and establish a communication and coordination mechanism among components. Design diagrams describe the elements of a system, how they are connected and how it is worked to fulfill the requirements of the system.

- Design architecture presents the structure of the system.
- All the use-cases and scenarios can be visualized.
- Providing solutions for expected user requirements.
- Functional and quality aspects are handled.
- Specified behaviors and collaborations among those elements.
- Architectural decisions along with the business objectives.

3.2 System Architecture

The wedding book system architecture describes the conceptual model of the implemented solution. Following wedding book system architecture (figure 3.1) describes logical relationships and major components of the implemented system. Structure of the system architecture mainly based on business objectives of wedding book web application.

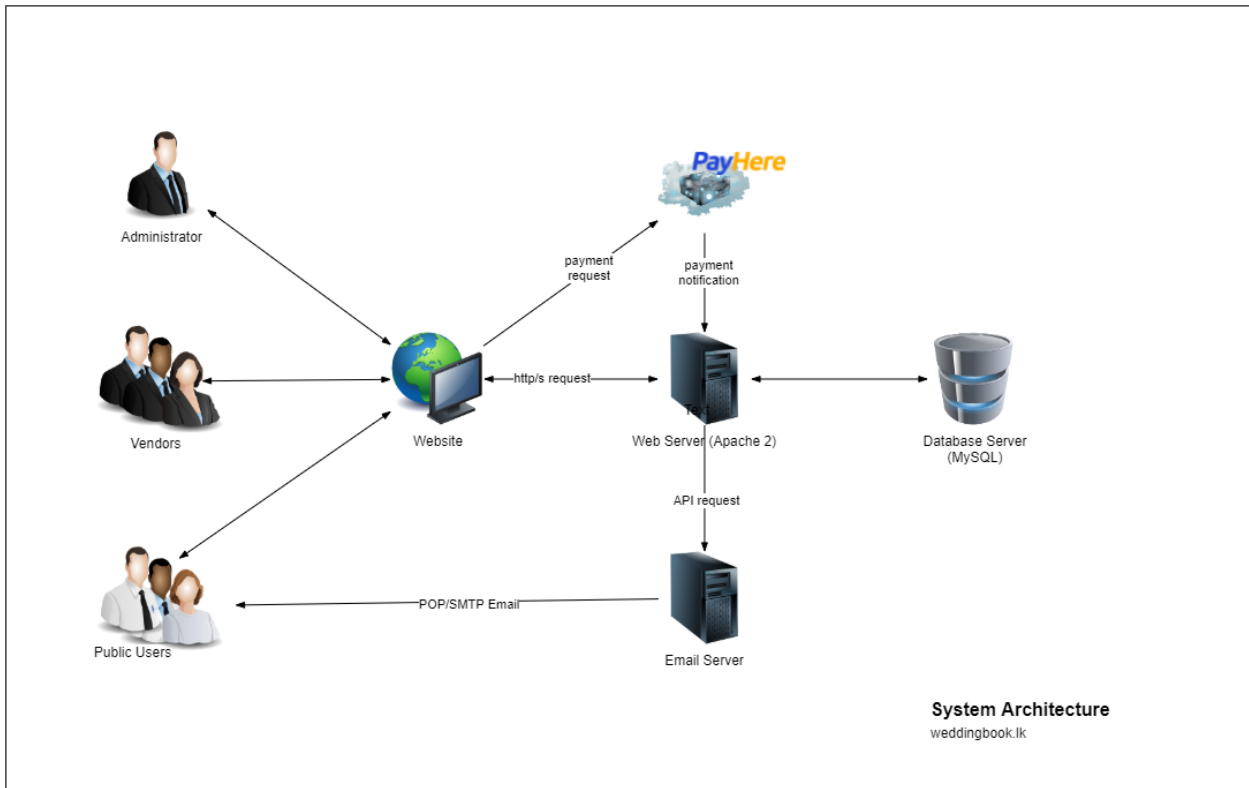


Figure 3.1: System architecture of the wedding book web application

The wedding book web application has been designed based on the **Model-View-Controller** framework. **MVC** is an architectural pattern that separates a wedding book application into three main logical components as shown in Figure 3.2. Such as Model, View, and Controller. Application can be handled with different aspects based on the design.

The architecture of wedding book web application separates into the business logic and presentation layer from each other. So that, I have used MVC architectural pattern design to design the architecture of “Wedding Book” web application.

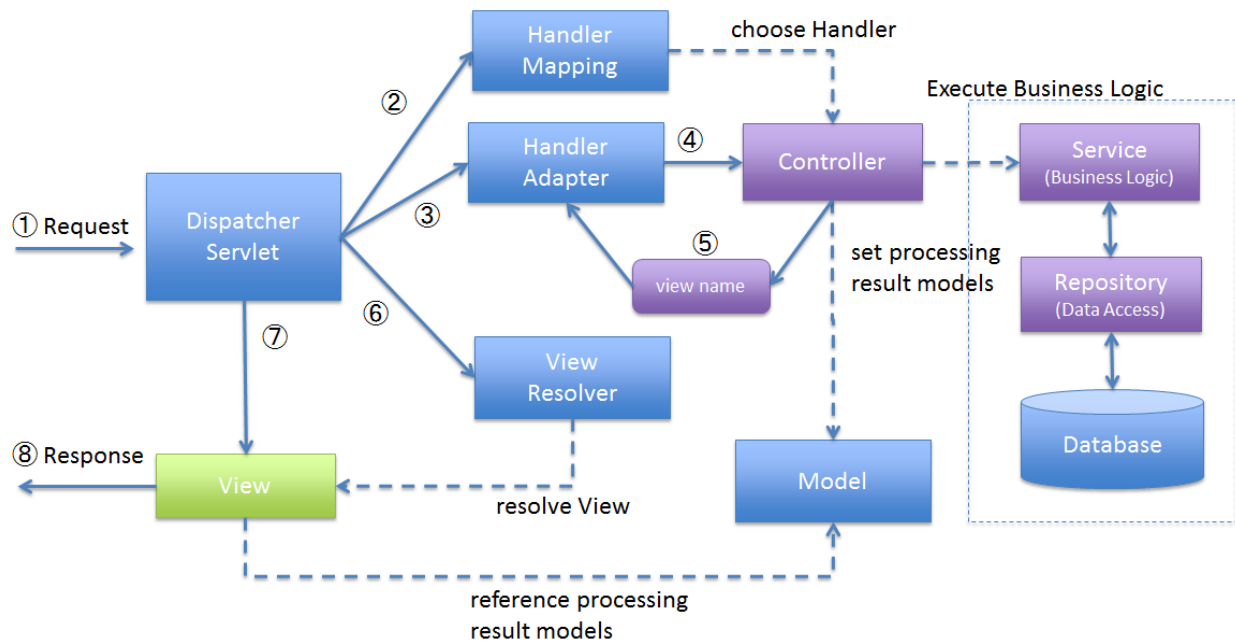


Figure 3.2: Design architecture of the wedding book web application

- MVC is very popular architecture for designing web applications
- This really effective and efficient architecture.
- Removes unnecessary dependencies
- Reusable without modification
- Extendable code
- This is very easy to maintain or modify
- It supports for multiple views
- When it comes to testing phase, each part can be tested independently (Model, view, controller)

View: The View represents the visual representation of data. The collected data from the model creates views. This presents the output presentation to the user after requesting from the model to give information.

Controller: The Controller handles the user interaction. The controller connects the model and view. This interprets the mouse and keyboard inputs from the user, informing the model and the view to change as appropriate.

Model: The model component stores data and its related logic. The transferred data between controller components or any other related business represents the model of the architecture.

3.3 UML Diagrams

Following Unified modeling language diagrams used to visualize for designing and implementation of the developed application model.

Entity Relationship Diagram

ER diagram describes relationships among entity sets. It helps to understand the logical structure of the database. Figure 3.3 below explains the structure of the database of the wedding book web application.

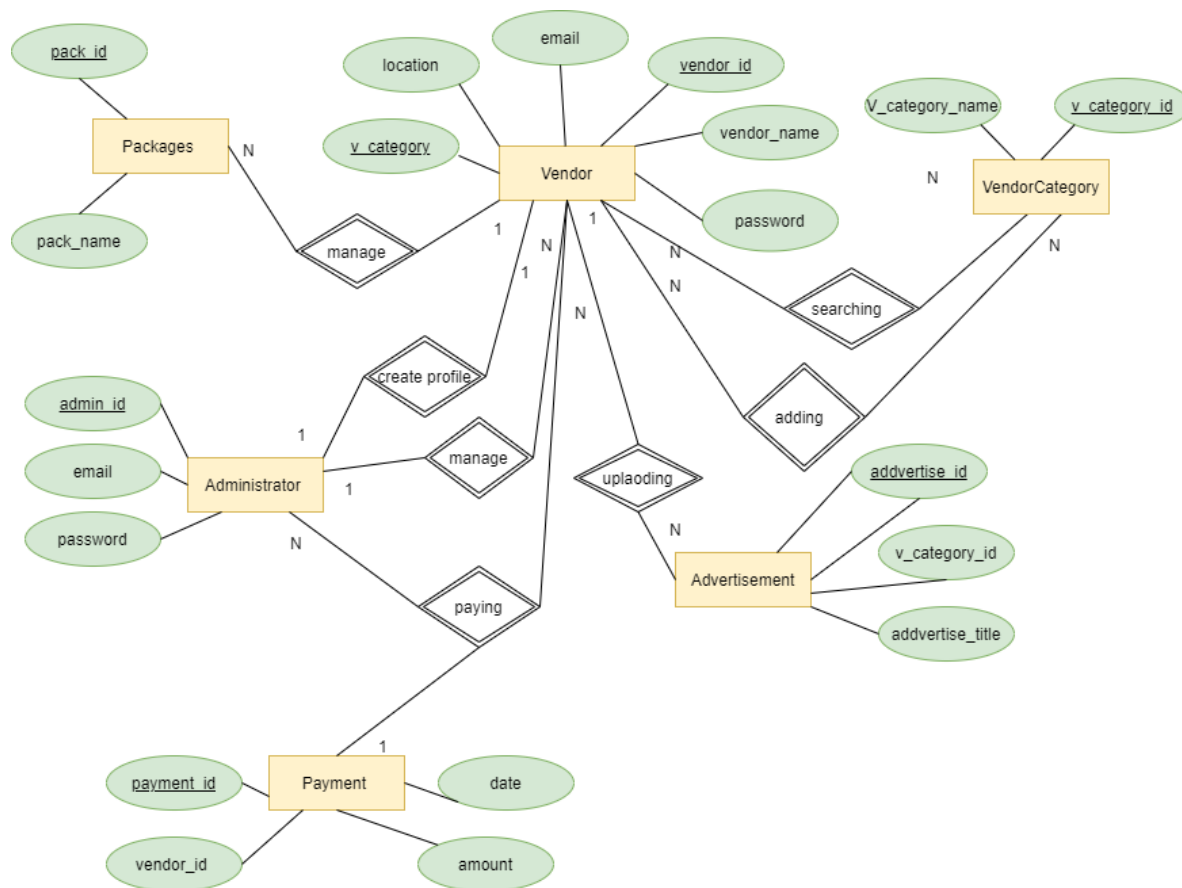


Figure 3.3: ER diagram of wedding book application

Class Diagram

Following Figure 3.4 Class diagrams describe the static view of the wedding book application. Mapped classes mainly describe the aspects of the system and it has been used for constructing executable code for the application.

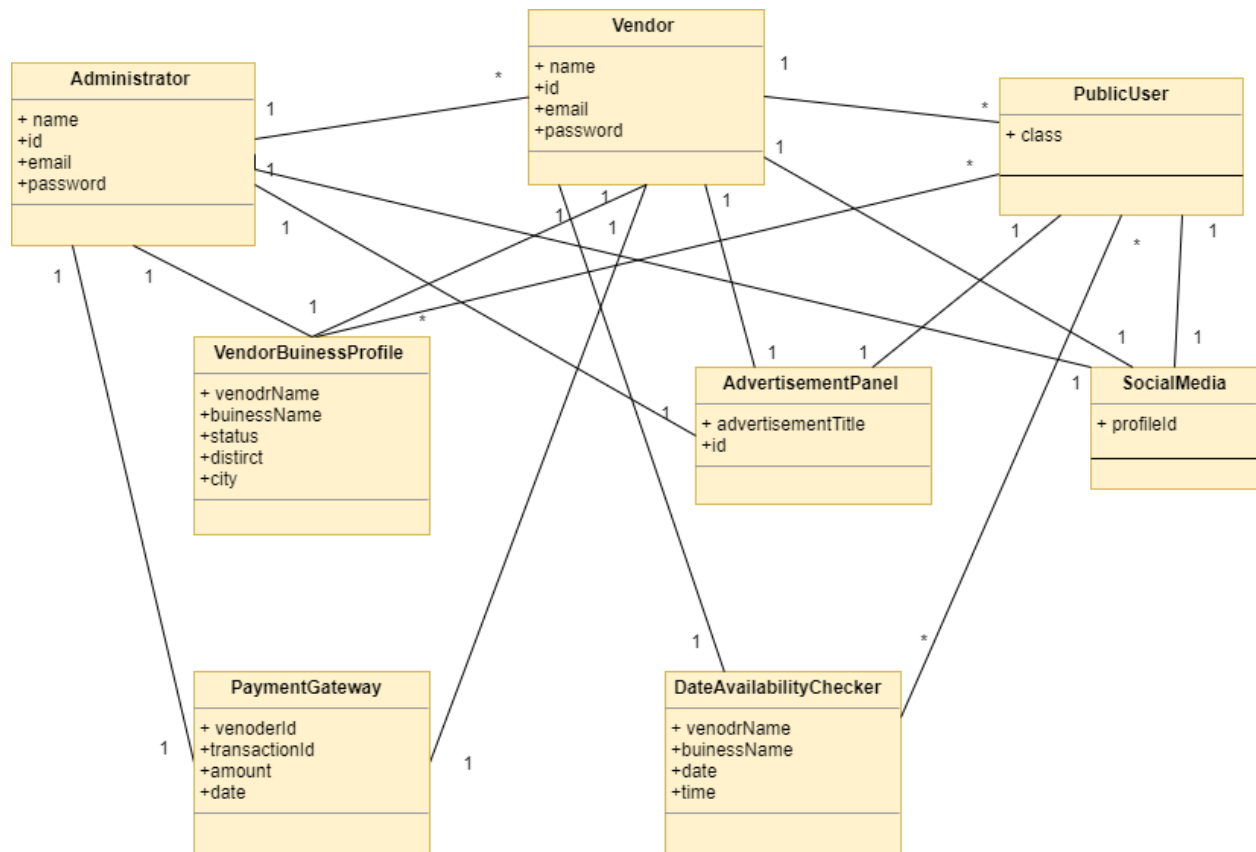


Figure 3.4: Class diagram of wedding book application

Sequence Diagram

Sequence diagrams illustrate interactions between objects along with the time sequence in a single use case. In Figure 3.5 below shows how different parts of the system interact with each other to carry out functionalities based on the system use case (Figure 2.1) of wedding book web application.

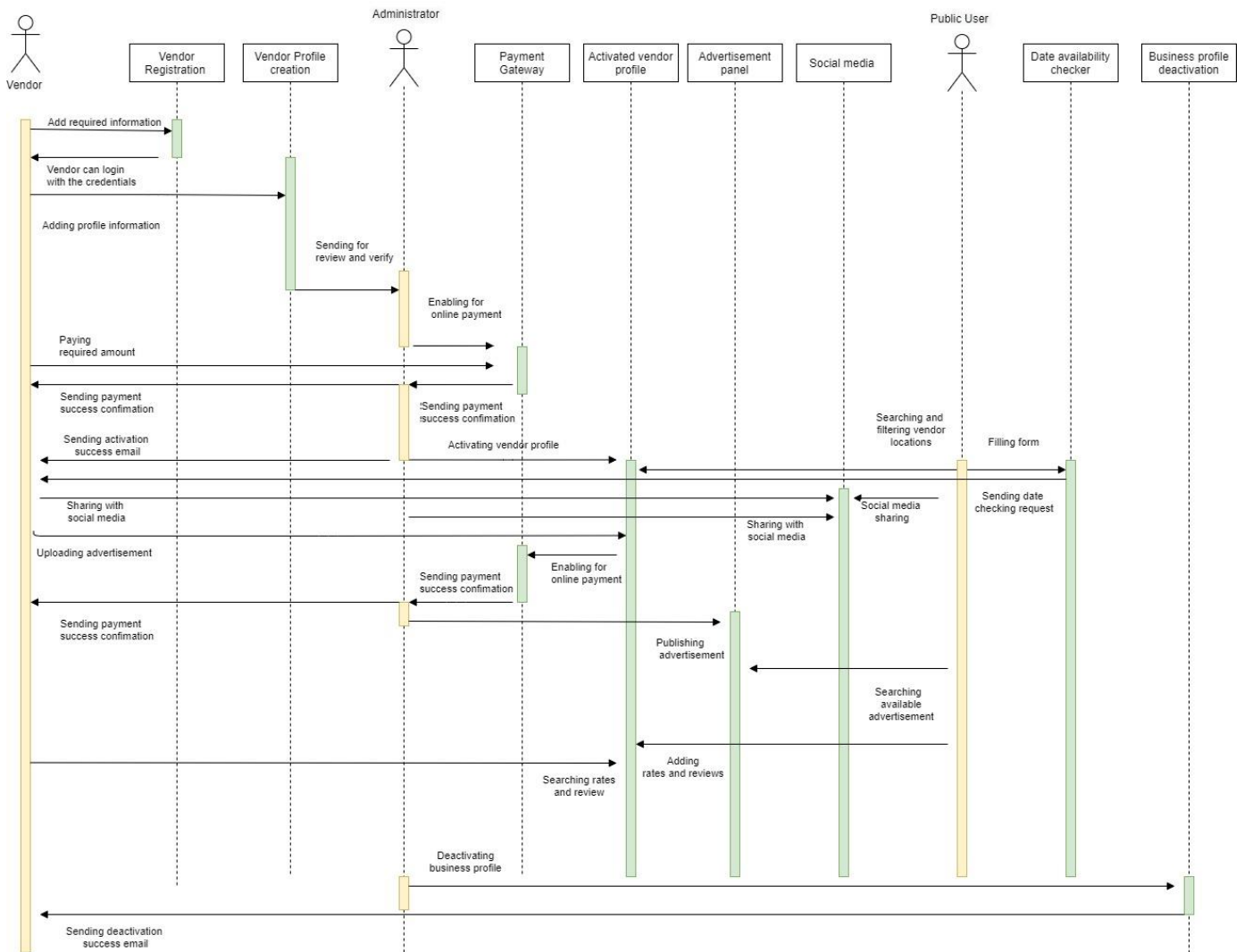


Figure 3.5: Sequence diagram of the Wedding Book Web Application

Process Diagrams

Process diagrams are used to model the sequence of activities within a process. Following process diagrams (Figure 3.6, Figure 3.7, Figure 3.8, Figure 3.9, Figure 3.10, Figure 3.11, Figure 3.12, Figure 3.13) describes process activities relates to the administrator, wedding vendors and public users.

1. Business profile registration and creation.

- Vendor needs to sign up with the application using their e-mail addresses.
- And vendor can add relevant information to their business profile.

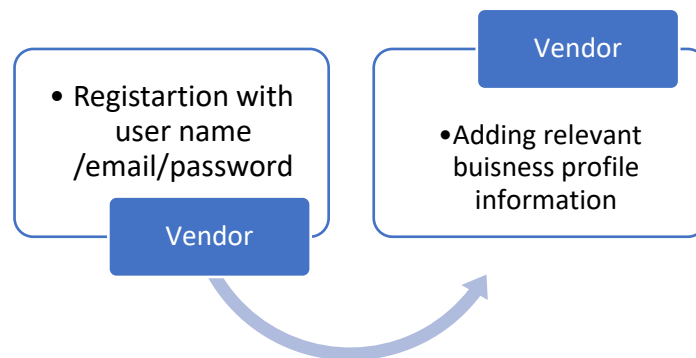


Figure 3.6: Process diagram of business profile registration and creation

2. Business profile reviewing and activating process

- Vendors need to send a created profile to the Administrator with the purpose of reviewing the content and approving them for the payment.
- First, the administrator verifies the user.
- Then the administrator works on reviewing and approving the process and sends back with the total invoice for the profile creation.
- The Application will provide an online payment facility for the vendor.

- After doing online payment, the vendor and administrator receive a success payment receipt through the emails.
- After paying the required payment, the administrator can activate the business profile.
- At last, vendors can see the activated profile at the “Wedding Book” site.

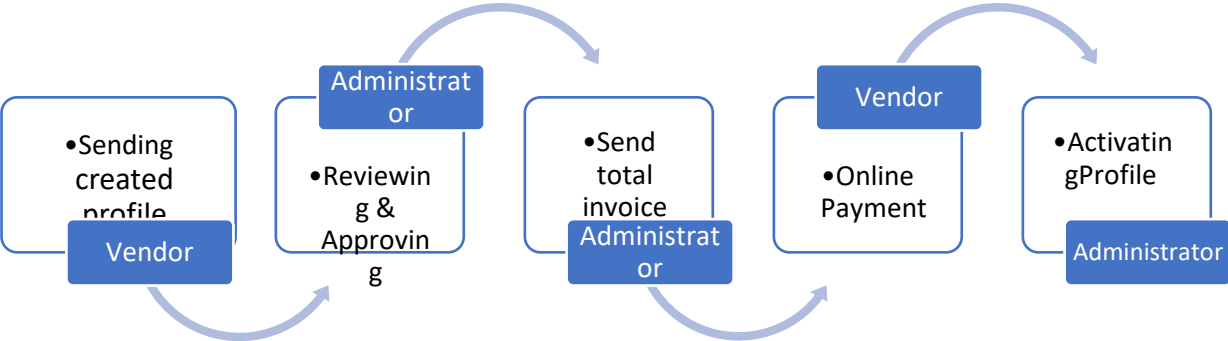


Figure 3.7: Process diagram of business profile reviewing and activating

3. Business profile deactivating.

- Administrators can deactivate activated profiles from the wedding book site.
- Then any user cannot see a deactivated profile from the public view.

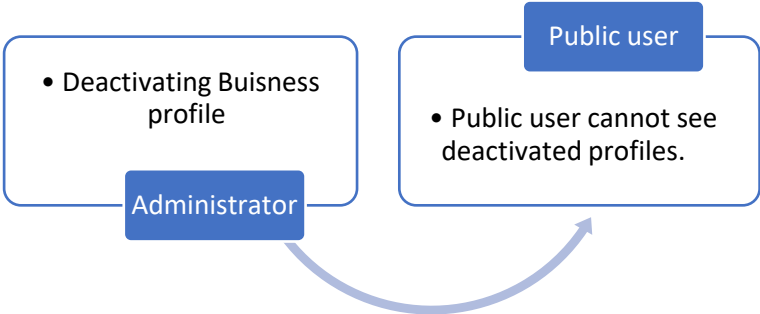


Figure 3.8: Process diagram of business profile deactivating

4. Publishing advertisements at wedding book site.

- Vendors need to login their registered user account.
- Then vendor can to upload the image of advertisement & need to make the required payment.
- After that administrator can see the advertisement request approval sent by the vendor.
- After approving advertisement request by the administrator, public users can see the advertisements at wedding book site.

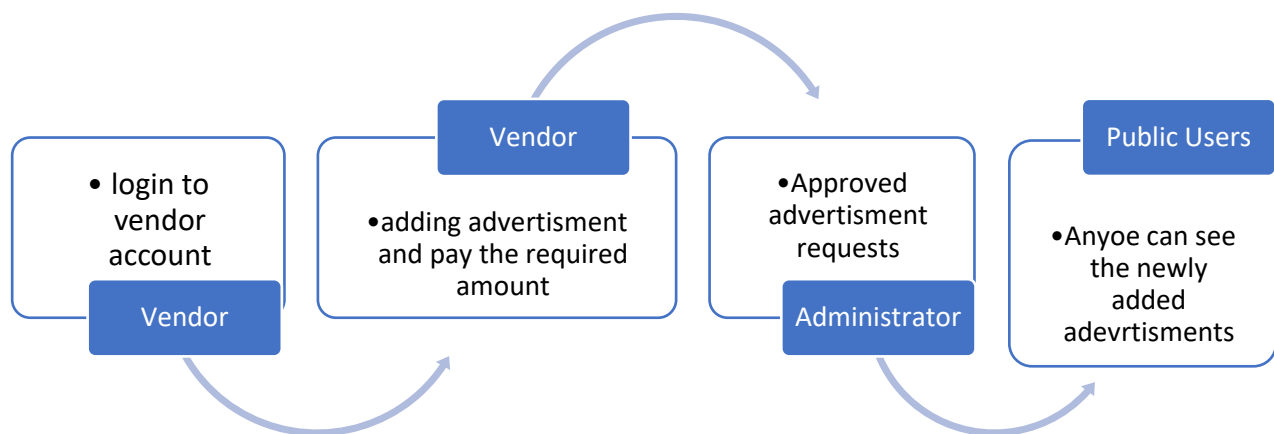


Figure 3.9: Process diagram of Publishing advertisements

5. Searching and filtering vendor locations and business profiles.

- Select a relevant district and city which the user wants to search according to their willingness.
- Select the vendor's service category type.
- Select the specific vendor.

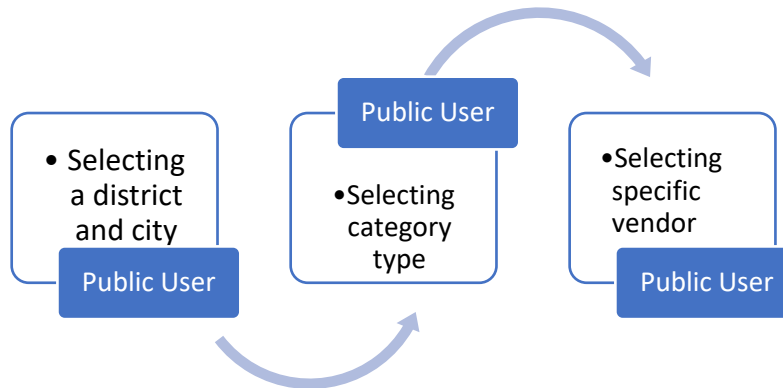


Figure 3.10: Process diagram of filtering vendor locations and business profiles.

6. Checking service availability for the required dates.

- Fill the form available on site to check the date and time availability using “date availability checker”.
- Send a request to the vendor.
- Vendor receives check availability requests through the vendor “scheduling calendar”.

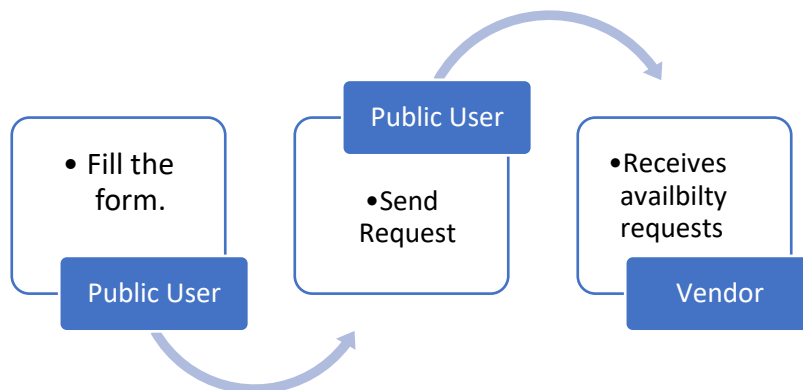


Figure 3.11: Process diagram of checking service availability for the required dates

7. Sharing business profile with social media

- Anyone can click on the “Facebook page” sharing button.
- Then application allows user to share the selected with social media

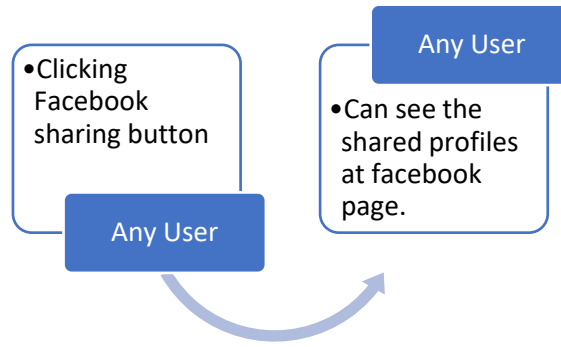


Figure 3.12: Process diagram of sharing business profile with social media

8. Adding and searching reviews and ratings

- Any user can click on the write review button
- Public users can add reviews and ratings.
- Anyone can search reviews and ratings.

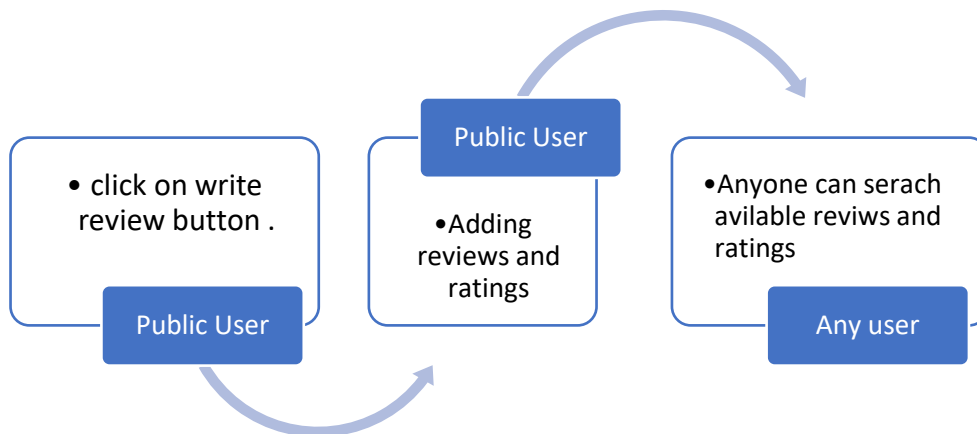


Figure 3.13: Process diagram of adding and searching review and ratings

3.4 User Interface Designing

When designing applications, User interface designing is a really important factor since Users directly interact with the User interface. So that before designing with UI design for wedding book web application I have referred to similar systems with the purpose of identifying improvements of the existing applications in the business domain. Then I came up with the UI design for my proposed application to fulfill identified gaps and business requirements.

As the first thing I designed wireframes based on the functionalities that I really wanted to have in the proposed system. Wireframe design is the best thing to minimize design effort to finalize a better UI.

With that we can easily decide the size of the element's arrangement of the user interface and required data set before moving to any software design tool. And also, with that we could verify all the proposed functionalities have been covered through the design.

I have designed the user interfaces of a wedding book web application by considering user friendliness since this is an online marketing web application. This design allows users to filter locations easily based on the district and city and any one can easily search available vendor categories.

I mainly consider content structuring when designing the user interfaces since it requires easy navigation for any user.

Based on the wireframes, initial user interfaces have been designed using Html and CSS technologies. Ex: Below Figure 3.14 Shows the initial designed of the home page

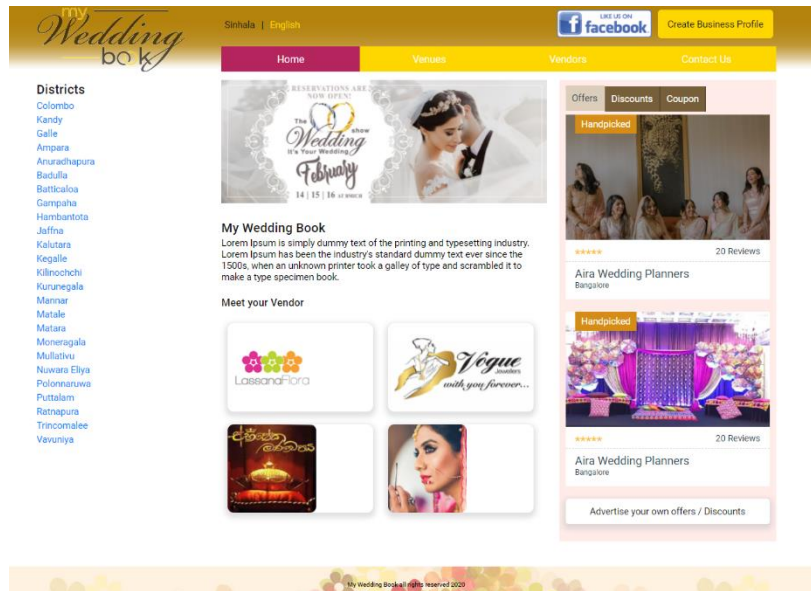


Figure 3.14: Initial UI design of the home page

Following Figure 3.15 shows the finalized UI designed considering all the design factors.

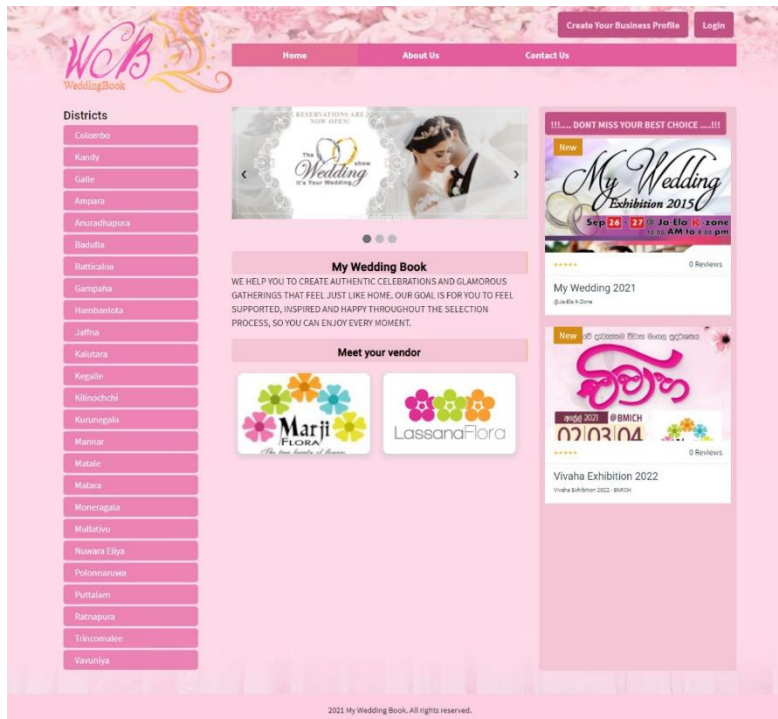


Figure 3.15: Finalized UI design of home page

Chapter 4: Implementation

4.1 Introduction

This chapter discusses the implementation approach of the wedding book application. There were new learning areas when I developed the application.

Some learning outcomes really helped me to find out the best approach and I was going through some tutorials to gain knowledge about technical feasibility to find appropriate environments, platforms and dev tools.

4.2 Technologies and Tools

Environment

- Apache web server (windows based)

Apache web server had been used since this is an open-source free software. As I am not coming from the developer background it was really easy for me to configure and use. This is very popular and their performance is an added advantage to do the work easily as a beginner.

Platforms

- PHP

As a beginner, PHP language was easy for me to learn and practice. There were free sources to learn php and I was able to apply them to my project. So I have used the PHP language. It's a really helpful language since it provides better loading speed for web sites and more options to database connectivity.

- MySQL database

MySQL is an open-source relational database management system and really easy to learn. This had been used due to high performance and data security.

- Laravel framework (version 8.x)

I have used Laravel framework tutorial (Laravel - The PHP Framework for Web Artisans, 2021) to learn about the framework and applied it to my project with the support of their instructions.

Laravel framework has been used based on the several reasons. Such as...

- Laravel is a popular framework.
- Having a high performance.
- Support to work with PHP and MySQL databases.
- It supports MVC architecture.

Dev Tools

- Visual Code IDE

The visual code IDE is a lightweight tool and it supports several languages.

- Chrome Web Browser

This is the most commonly used web browser. I have mainly used this web browser to test the application since most of the users are familiar with chrome browser. When it comes to the development side, there are some supportive development tools available with chrome browser and we can easily find the debugging options as well.

4.3 Implementation approach

- Installed & configured Apache web server and Php with my working machine and Windows Operating system was installed with the machine.
- Installed Laravel framework using composer. I have referred to the following Laravel official site to learn about the framework and followed all the guidelines when implementing the system. As shown in Figure 4.1, Platform version and dependencies have been used.

(Installation - Laravel - The PHP Framework For Web Artisans, 2021)

```
{
  "name": "weddingbook.lk",
  "type": "project",
  "description": "WeddingBook.lk",
  "keywords": [
    "framework",
    "laravel"
  ],
  "license": "MIT",
  "require": {
    "php": "^7.3|^8.0",
    "barryvdh/laravel-dompdf": "^0.9.0",
    "fideloper/proxy": "^4.2",
    "fruitcake/laravel-cors": "^1.0",
    "guzzlehttp/guzzle": "^7.0.1",
    "laravel/framework": "^8.0",
    "laravel/tinker": "^2.0",
    "laravel/ui": "^3.0"
  },
  "require-dev": {
    "facade/ignition": "^2.3.6",
    "fzaninotto/faker": "^1.9.1",
    "mockery/mockery": "^1.3.1",
    "nunomaduro/collision": "^5.0",
    "phpunit/phpunit": "^9.0"
  },
}
```

Figure 4.1: Used platform versions and used dependencies

- Then the database was configured. Below Figure 4.2 shows the environment variables of the database configs and Figure 4.3 shows the code for database configuration.

```
lines (38 sloc) | 842 Bytes
APP_NAME=WeddingBook
APP_ENV=local
APP_KEY=base64:M8U906PTMZLVNZaHZQiu2I59HgH716qIIVkeuKpbwI8=
APP_DEBUG=true
APP_URL=http://127.0.0.1:8000

LOG_CHANNEL=stack

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=weddingbook
DB_USERNAME=root
DB_PASSWORD=
```

Figure 4.2: Environment variables of database configs

```
'mysql' => [
    'driver' => 'mysql',
    'url' => env('DATABASE_URL'),
    'host' => env('DB_HOST', '127.0.0.1'),
    'port' => env('DB_PORT', '3306'),
    'database' => env('DB_DATABASE', 'forge'),
    'username' => env('DB_USERNAME', 'forge'),
    'password' => env('DB_PASSWORD', ''),
    'unix_socket' => env('DB_SOCKET', ''),
    'charset' => 'utf8mb4',
    'collation' => 'utf8mb4_unicode_ci',
    'prefix' => '',
    'prefix_indexes' => true,
    'strict' => true,
    'engine' => null,
    'options' => extension_loaded('pdo_mysql') ? array_filter([
        PDO::MYSQL_ATTR_SSL_CA => env('MYSQL_ATTR_SSL_CA'),
    ]) : [],
],
```

Figure 4.3: Database configuration

- Backend development was started with dummy text and defined routes, views. Basically, the data binding part had proceeded.
- For the user authentication, the database is designed to maintain admins & vendors in a single table. Therefore, specific route middleware has been implemented to check whether that user is Admin or vendor as shown in Figure 4.4 and Figure 4.5.

```
<?php

namespace App\Http\Middleware;

use Closure;
use Illuminate\Support\Facades\Auth;

class IsVendor
{
    /**
     * Handle an incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param \Closure $next
     * @return mixed
     */
    public function handle($request, Closure $next)
    {
        if (Auth::user()->isVendor()) {
            return $next($request);
        }
        dd('not authorized');
    }
}
```

Figure 4.4: Code for checking if the request is from Vendor

```

<?php

namespace App\Http\Middleware;

use Closure;
use Illuminate\Support\Facades\Auth;

class IsAdmin
{
    /**
     * Handle an incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param \Closure $next
     * @return mixed
     */
    public function handle($request, Closure $next)
    {
        if (Auth::user()->isAdmin()){
            return $next($request);
        }
        dd('not authorized');
    }
}
}

```

Figure 4.5: Code for checking if the request is from admin

- When it comes to the frontend side, first design all the UIs based on the component structures using Html and CSS technologies. And also, bootstrap had been used for some scenarios. Implemented user interfaces divided into patrials (such as header, footer, homepage, etc.) and all the pages loaded and data binding part has been done along with that.
- “PayHere” payment gateway has been used for the implemented application since it is easy to handle. After that I configured “PayHere” payment gateway. I have used sandbox for the testing purposes and “Checkout API” documentation has been referred to as the technical guidance (Checkout API - PayHere Knowledge Base, 2021). Figure 4.6 shows the code module for how to redirect users to the payment gateway with the data.

```

@php $amount = 1000.00; $currency = 'LKR'; @endphp
@if($user_data->status == \App\User::APPROVED && in_array($user_data->verify_status, [\App\User::EMAIL_VERIFIED]))
    <div class="u-mt block">
        <p style="margin-bottom: 5px;">* Your account been approved!</p>
        <p style="color: red;">Please proceed to payment to complete the account activation.</p>

        <form method="post" action="https://sandbox.payhere.lk/pay/checkout" id="paynow" class="d-none">
            <input type="hidden" name="merchant_id" value="1210941"> <!-- Replace your Merchant ID -->
            <input type="hidden" name="return_url" value="{{ route('pay_successful') }}">
            <input type="hidden" name="cancel_url" value="{{ route('vendor_profile') }}">
            <input type="hidden" name="notify_url" value="{{ route('payhere.notify') }}">
            {{-- Item Details --}}
            <input type="hidden" name="order_id" value="{{ $user_data->id }}">
            <input type="hidden" name="items" value="{{ @ $vendor_data->name ?? $user_data->first_name . ' ' . $currency }}">
            <input type="hidden" name="currency" value="{{ $currency }}">
            <input type="hidden" name="amount" value="{{ $amount }}">
            {{-- Customer Details --}}
            <input type="hidden" name="first_name" value="{{ $user_data->first_name }}">
            <input type="hidden" name="last_name" value="{{ $user_data->last_name }}"><br>
            <input type="hidden" name="email" value="{{ $user_data->email }}">
            <input type="hidden" name="phone" value="{{ $user_data->phone }}"><br>
            <input type="hidden" name="address" value="{{ $vendor_data->street_address }}">
            <input type="hidden" name="city" value="{{ @ $vendor_data['city']->name }}">
            <input type="hidden" name="country" value="Sri Lanka">
        </form>

        <div class="row">
            <div class="col-3">
                <a href="#" onclick="fnPayNow()" class="link-button-link"><span class="link-button link-button-
            </div>
        </div>
    </div>

```

Figure 4.6: Sample code for redirecting user to the payment gateway

- Used a “mailtrap” account for testing emails. (Mailtrap - Email Testing Tool #1, 2021) When configuring email with mailtrap the following (Figure 4.7) code has been added to the “.env” file. Figure 4.8 below shows the sample code for notification email.

```

MAIL_MAILER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=32a242f98049e5
MAIL_PASSWORD=216046ca2d723c
MAIL_ENCRYPTION=tls
MAIL_FROM_ADDRESS=pradeep-e090ff@inbox.mailtrap.io
MAIL_FROM_NAME="{{ APP_NAME }}"

```

Figure 4.7: Added mailtrap code in .env file

```

/**
 * Get the mail representation of the notification.
 *
 * @param mixed $notifiable
 * @return \Illuminate\Notifications\Messages\MailMessage
 */
public function toMail($notifiable)
{
    return (new MailMessage)
        ->greeting('Hello ' . $notifiable->first_name . ',')
        ->line('Congratulation!')
        ->line('Your vendor account at ' . env('APP_NAME') . ' has been approved.')
        ->line('Thank you for using our application!');
}
/**
 * Get the array representation of the notification.
 */

```

Figure 4.8: Sample code for notification email

- For the social media sharing functionality (Figure 4.9), existing code has been used from the facebook developer page. (Share Button - Social Plugins - Facebook for Developers, 2021). Below Figure 4.10 shows the generated code for facebook share button.

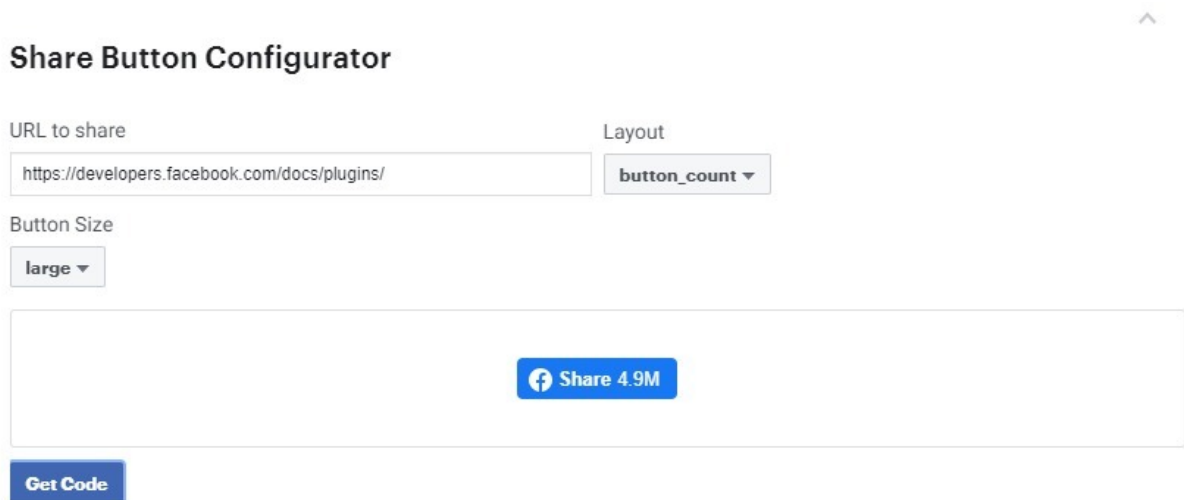


Figure 4.9: Face book share button configurator

```

<!-- Load Facebook SDK for JavaScript -->
<div id="fb-root"></div>
<script>(function(d, s, id) {
var js, fjs = d.getElementsByTagName(s)[0];
if (d.getElementById(id)) return;
js = d.createElement(s); js.id = id;
js.src = "https://connect.facebook.net/en_US/sdk.js#xfbml=1&version=v3.0";
fjs.parentNode.insertBefore(js, fjs);
})(document, 'script', 'facebook-jssdk');</script>

<!-- Your share button code -->
<div class="fb-share-button"
data-href="https://www.your-domain.com/your-page.html"
data-layout="button_count">
</div>

```

Figure 4.10: Generated code for facebook share button

Chapter 5: Testing and Evaluation

5.1 Related Testing Types

Software Testing is really required to assure the quality since we all humans make mistakes. There are some unimportant observed mistakes and some of them are expensive or dangerous. We need to verify the application considering quality assurance and quality control aspects since there are many possibilities that may always drive the system to go wrong. Some mistakes arise from bad assumptions and blind spots, so there are some situations where we might make the same mistakes when we check our own work when we did it. Software testing is really required to find out the bugs and errors that were made during the implementation. And also, it's important to build trust with customers. Testing will provide the facilities to the customers for their expected outcome with high quality product or software application which requires lower maintenance cost and hence results into more accurate, consistent, and reliable results. When it comes to software testing It's really important to think about functional and nonfunctional testing scope. That may lead to a come up with the effective test plan.

The following techniques have been mainly followed to assure the quality of the Wedding Book application.

1. Reviewed the requirements.
2. Audited the time and effort put into application development.
3. Functional Testing did for identifying the defects early (parallel with the development).
4. Code Inspections done by self.
5. Walkthroughs done by self, regarding code and requirements.
6. Design Inspection.

Here I am really focusing on the testing process. With my experience I really want to come up with the quality product and will cover quality assurance and quality control standards. With the purpose of having a quality product the following test is followed by considering functional and Nonfunctional quality aspects.

As shown in Figure 5.1, There are two categories of test design techniques. Such as Static Technique and Dynamic Technique.

- **Static testing technique:**

This starts from an early stage in the SDLC. Under static testing we don't execute any code and testing of the software work products manually, or with a set of tools. This is mainly following the verification process. Requirement documents have been referred and executed static testing scenarios to verify the quality of the verification process. I have started writing test cases in the initial stages by looking at the customer expectations.

- **Dynamic testing approach:**

This is coming from within the validation process of the testing scope and mainly validates the functionalities of the application when the code is executed. In dynamic testing, all the output of the functionalities has been tested based on the set of different inputs.

I have followed dynamic testing approach with agile testing standards. Under this, I was planning to do functional and Nonfunctional testing to validate quality of the application.

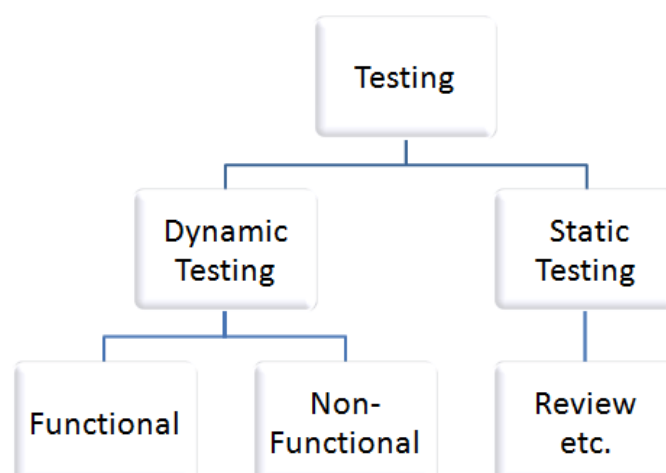


Figure 5.1.: Testing Types

Functional testing

Following Table 5.1 describes the executed functional testing types.

Testing type	Testing coverage
Component testing	<p>Component testing is used for where testing of each component in an application is done separately. In my wedding book application, I have tested implemented components separately.</p> <p>For an example:</p> <ol style="list-style-type: none">1. Components of Vendor Registration flow2. Components of Payment flow3. Components of Administrator approval flow4. Components of Searching registered vendor locations.
Integration testing	<p>Integration testing has been executed after component testing. In here I mainly used integration testing for verify modules or interfaces between components, interactions to different parts of the system.</p> <p>For an example:</p> <ol style="list-style-type: none">1. Payment gateway2. Email configuration
System testing	<p>We can execute this testing as whole part of the application. After executing integration testing, we can come with the better test plan to test the full flows of the application as a one system testing approach. In wedding book application, I have executed system testing to verify the functional flows as a system.</p>

Table 1.1: Executed functional testing types

5.2 Test plan

Functional and nonfunctional areas have been covered through the test plan. And following testing areas tested based on the positive and negative scenarios.

Following are the identified test scenarios for the Test plan.

I have planned a test following observed scenarios considering following user roles.

- Vendor
- Public Users
- Administrator

In table 5.2 shows the tested functional scenarios for vendor user role

Test Scenarios	Testing Status	
	Positive scenarios	Negative Scenarios
· Vendor can register and publish the business profile at wedding book web site	Tested	Tested
· Vendors can do the online payment for the invoices.	Tested	Tested
· Vendors can advertise their advertisements with the additional payment.	Tested	Tested
· Adding and searching review and ratings	Tested	Tested
· Vendors receive “Check availability “request from the customer side.	Tested	Tested
· Application allow facilitates to share business profiles with social media (Facebook).	Tested	Tested

Table 5.2: Tested functional scenarios for vendor user role

In table 5.3 shows the tested functional scenarios for public user role

Test Scenarios	Testing Status	
	Positive scenarios	Negative Scenarios
· Public users can search beautiful variety of wedding styles	Tested	Tested
· Application will be provided facilitate for filtering location when they are searching vendors.	Tested	Tested
· Customers can check the availability easily before starting communication with vendor.	Tested	Tested
Adding and searching reviews and ratings	Tested	Tested
· They can write review and search ratings of vendors.	Tested	Tested
· Anyone can share the vendor profiles with social media.	Tested	Tested
· Customer can search available advertisements.	Tested	Tested

Table 5.3: Tested functional scenarios for public user role

In table 5.4 shows the tested functional scenarios for administrator user role

Test Scenarios	Testing Status	
	Positive scenarios	Negative Scenarios
· Marketing of “wedding Book” site.	Tested	Tested
· Reviewing business profile of vendors and sending approval.	Tested	Tested
· Estimating the budget and send back total invoice	Tested	Tested
· Managing online payment process	Tested	Tested
· Publishing vendor business profile at wedding book site after settling all the payments.	Tested	Tested
· Managing user accounts	Tested	Tested
· Reviewing and publishing advertisement	Tested	Tested
· Handling notifications, news alerts of vendor profile.	Tested	Tested
· Sharing business profiles with the social media (Face book).	Tested	Tested

Table 5.4: Tested functional scenarios for administrator user role

5.2 Test analysis reports & evaluation

Based on the agile testing process each testable component is tested along with the written test cases. As for the final testing phase, the wedding book application has been tested with different users to find out functional gaps. Following selected smoke test cases were shared among few users and tested all the 52 test cases. In Figure 5.2 indicates percentages of test case coverage based on the user role.

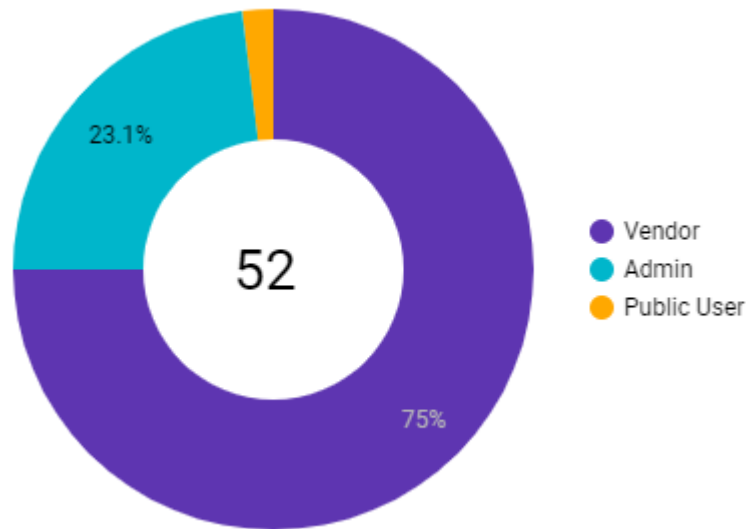


Figure 5.2: Test case coverage

In Table 5.5, Table 5.6, Table 5.7 indicates the final test result status of overall testing coverage.

User Role	Test Case ID	Test Case Name	Status
Public User	P_1	Verify the public user can see the following information in the Wedding Book. Wedding Book Logo List of Districts Home Tab About Us Tab Contact Us Tab Floating Images Panel Advertisement Bar Create Your Business Profile Button Login Button	Pass

Table 5.5: Overall test cases result status of public user role

User Role	Test Case ID	Test Case Name	Status
Vendor	V_1	Verify that the vendor navigates to the "User Registration" page through the 'Create Your Business Profile' button.	Pass
Vendor	V_2	Verify that the 'User Registration' page showing following text fields; FIRST NAME, LAST NAME, E-MAIL ADDRESS, PASSWORD, CONFIRM PASSWORD, Register Button	Pass
Vendor	V_3	Verify that the vendor inserts registration information and registration is successful.	Pass
Vendor	V_4	Verify that the Confirm Password is functioning correctly.	Fail
Vendor	V_5	Verify that the vendor gets the business categories for registration.	Pass
Vendor	V_6	Verify that the vendor can save and click the Next button click after selecting a business category.	Pass
Vendor	V_7	Verify that the vendor can select the District & City in the registration flow.	Pass
Vendor	V_8	Verify that the vendor can click 'Save & Next' button after selecting District & City.	Fail
Vendor	V_9	Verify that the vendor navigates to the "Advertise Your Business Profile" page, after clicking the 'Save & Next' button.	Pass
Vendor	V_10	Verify that the "Advertise Your Business Profile" page shows following info; NAME OF YOUR BUSINESS, CONTACT NUMBER, ADDRESS, MESSAGE, 'Save & Next' button	Pass
Vendor	V_11	Verify that the vendor inserts business profile information and click the 'Save' button. And 'Next' button navigates to the next page of the 'Advertise Your Business Profile'.	Pass
Vendor	V_12	Verify that the "Advertise Your Business Profile" page shows following info; ABOUT US, PACKAGES, 'Save & Next' button	Pass
Vendor	V_13	Verify that the vendor can insert information on "Advertise Your Business Profile" page in following text fields; ABOUT US, PACKAGES	Pass
Vendor	V_14	Verify that the vendor can insert information on "Advertise Your Business Profile" page in following text fields and save information successfully clicking 'Save & Next' button; ABOUT US, PACKAGES	Pass
Vendor	V_15	Verify successful message shows after clicking 'Save & Next' button;	Pass
Vendor	V_16	Verify that the "Advertise Your Business Profile" page shows following info; Info message, UPLOAD PHOTO ALBUM, 'Save Images' button, Important warning/info message for image size and minimum count	Fail
Vendor	V_17	Verify the condition of adding minimum image count	Fail
Vendor	V_18	Verify the condition of the pixel of the images.	Pass
Vendor	V_19	Verify that the added images show in the right-hand pane under the "Your Photos".	Pass

Vendor	V_20	Verify the review function after adding images.	Pass
Vendor	V_21	Verify the message in the "Profile Alerts" section as pending approval from admin.	Pass
Vendor	V_22	Verify that the vendor account approval message comes to the Profile Alerts section.	Pass
Vendor	V_23	Verify that the approval message comes to the Profile Alerts section for Pay now option to activate the vendor profile.	Pass
Vendor	V_24	Verify that the payment can be done through the payment gateway.	Fail
Vendor	V_25	Verify that the added content is positioned correctly.	Pass
Vendor	V_26	Verify that the breadcrumb shows correctly.	Pass
Vendor	V_27	Verify that all the content is correct.	Pass
Vendor	V_28	Verify that the added comment shows correctly.	Pass
Vendor	V_29	Verify that Facebook sharing is allowed for vendors.	Pass
Vendor	V_30	Verify if a user will be able to login with a valid username and valid password.	Pass
Vendor	V_31	Verify the 'Forgot Password' functionality.	Pass
Vendor	V_32	Verify the messages for invalid login.	Pass
Vendor	V_33	Verify the 'Remember Me' functionality.	Pass
Vendor	V_34	Verify if the data in the password field is either visible as asterisk or bullet signs.	Pass
Vendor	V_35	Verify if a user is able to login with a new password only after he/she has changed the password.	Pass
Vendor	V_36	Verify if the login page allows you to log in simultaneously with different credentials in a different browser.	Pass
Vendor	V_37	Verify if the 'Enter' key of the keyboard is working correctly on the login page.	Pass
Vendor	V_38	Verify if a user cannot login with a valid username and an invalid password.	Pass
Vendor	V_39	Verify the login page for both, when the field is blank and the Submit button is clicked.	Pass

Table 5.2 : Overall test cases results status of vendor user role

User Role	Test Case ID	Test Case Name	Status
Admin	A_1	Verify that the admin can see all vendor requests.	Pass
Admin	A_2	Verify that the admin can see all vendor advertisements.	Fail
Admin	A_3	Verify that the admin can Verify, View and Delete the vendor requests.	Pass
Admin	A_4	Verify that the vendor status shows.	Pass
Admin	A_5	Verify that the "Vendor Account Successfully Verified" message appears once verified.	Pass
Admin	A_6	Verify that the "Vendor Account Successfully Verified" message appears once verified and "Verify" button disappear. .	Pass
Admin	A_7	Verify that the admin can view the vendor details.	Pass
Admin	A_8	Verify that the admin can approve the vendor details.	Pass
Admin	A_9	Verify that the admin gets an email regarding payment successful from vendor.	Fail
Admin	A_10	Verify that the admin can activate the vendor profile.	Pass
Admin	A_11	Verify that the admin can activate the vendor profile and can see the success message for vendor profile publication.	Pass
Admin	A_12	Verify that admin can deactivate the vendor profile at any time.	Pass

Table 5.3 : Overall test cases result status of administrator user role

After executing a smoke test suite with a selected set of users following defects have been identified and analyzed based on the total test case count. As shown in Figure 5.3, Pass test case percentage is 86.5%.

Defect Analysis Report

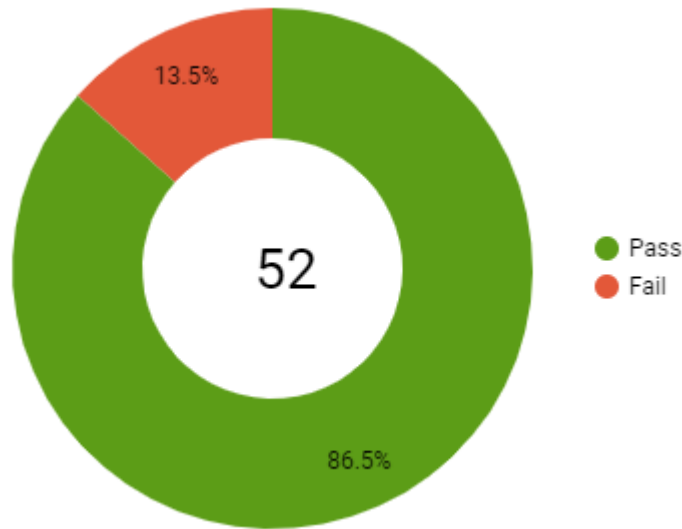


Figure 5.3: Defect analysis report as percentage

Figure 5.8 below indicates all the reported defects and their relevant test case ID.

Defect ID	User Role	Defect Name	Status	Test Case ID
1	Vendor	Confirm Password is not functioning correctly	Fail	V_4
2	Vendor	Vendor cannot 'Save & Next' button click after selecting District & City.	Fail	V_8
3	Vendor	Cannot be navigated to the "Advertise Your Business Profile"	Fail	V_16
4	Vendor	Minimum image count condition does not properly work	Fail	V_17
5	Vendor	Unable to navigate payment page	Fail	V_24
6	Admin	Admin cannot see all vendor advertisement requests.	Fail	A_2
7	Admin	Admin does not receive email regarding payment successfully from the vendor.	Fail	A_9

Table 5.4: Defect analysis report

All the reported defects have been fixed based on the user observations. And test another regression test suite to verify the fixes of the application.

And again, executed a smoke test to verify the quality of the application and all test cases have been passed.

And Following feedback got from the tested users.

- Weeding book application is a very user-friendly application.
- Users can search and filter location.
- Users can check the vendors availability easily.
- Users can see photo albums without visiting vendor's locations.
- It saved their time to confirm available vendors.
- Vendors can get an idea about the competitive market.
- It is really good to search all the vendor locations on one platform.
- Customers are always able to find vendors – anytime, anywhere, even outside of business hours.
- Weeding book can save a lot of time as everything customers need is one place and can be accessed at any time.
- Wedding Book offers the user convenience as they can access the information they need in the comfort of their own home, with no added pressure to select
- Wedding book provides a quick and easy way of communicating information between customers and vendors.
- This is also a good way to promote in social media channels and build up a community with a different variety of customers.
- This allows anyone to lower the prices, giving business that real competitive edge.
- Wedding Book site is accessible to anyone all over the world
- This web application is crucial that no opportunities are missed and are gained by the competition.
- Wedding Book customers can receive a reply instantly and saves time, which helps to encourage positive customer relations in the long run.

Chapter 6: Conclusion

Wedding book web applications have been provided solutions for observed issues from vendors and customers. It provides a virtual platform to search available vendors based on the locations. Then it's really easy for customers to find out vendor locations and it reduces the wasting time for visiting many vendor locations or reaching all the stalls of the wedding exhibitions. The web application established a central platform to meet vendors in different types category services and the customers.

And also, customers no need to post the same wedding requirement in social media groups. The wedding book application allows any user to share the profile with social media. It increases customer reaching count for the marketing and any user can easily see the rating and reviews of the each of vendors.

Nowadays wedding planning takes the important business category since there is a huge competition in between vendor services. With this marketing platform any vendor can clearly get the idea about a competitive business field.

This application mainly satisfies the major requirement of checking available dates for functions. Any one can check the vendor's calendar and find out their available dates and also any user can easily send date availability requests to the vendor side. This may increase the new customer base for the vendor side and that leads to the growth of the business. With the wedding book application vendors also can manage easily customer requests since this is a having user-friendly approach to any user.

Both vendor and customer interact with this since this application provides various vendor categories based on the location. And also, vendors can advertise their special offers or any activates related with their business.

Future Work

- Planning to add more vendor categories based on the business requirements.

We can expand this application considering different types of business categories since currently it includes only five categories with the application.

- Hope to implement the application based on multilingual functionality.

In Sri Lanka we can see multinational people. So that sometimes some users not familiar with the English language. So, it is better to extent this application by providing multilingual functionality

- As the next step, a mobile application will be implemented.

Nowadays most of the people are familiar with the mobile devices. And we can implement this web application as the mobile application with the purpose of reaching out large users.

References

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Appendices

Appendix A

MIS Reports

When administrator verify the business profile request sending verification success email to vendor. (Figure a.1)

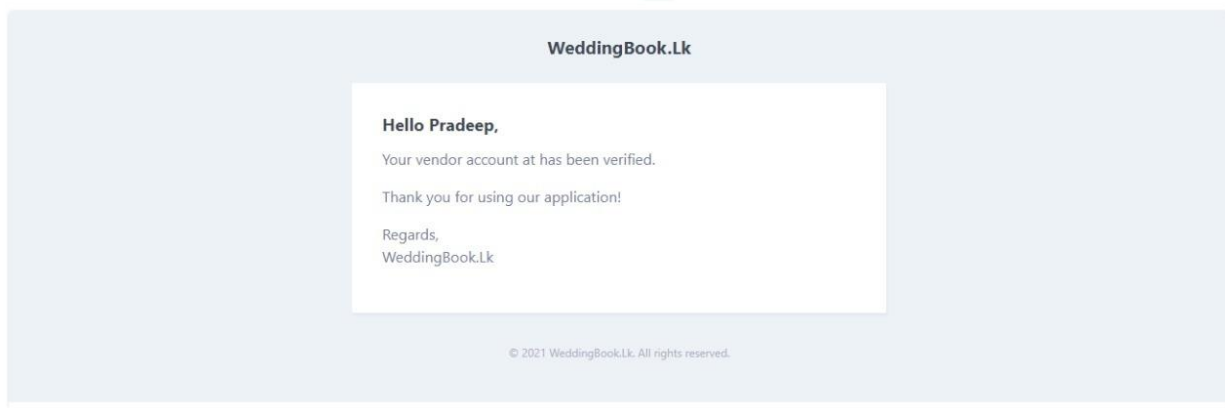


Figure a.1: Verification success mail

When administrator approve the business profile sending approved email to vendor. (Figure a.2)

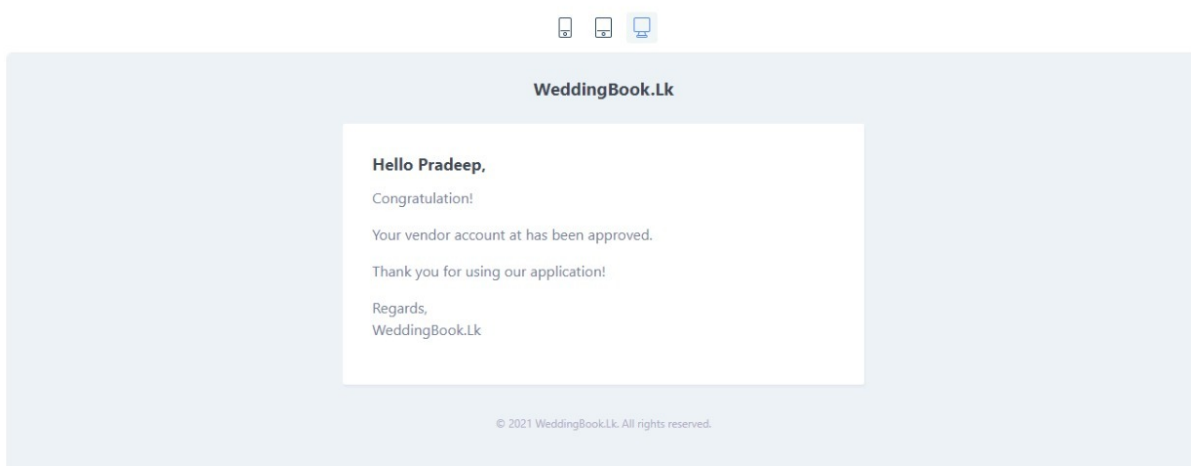


Figure a.2: Approved mail

When the administrator activates the business profile request sending activation success email to vendor. (Figure a.3)

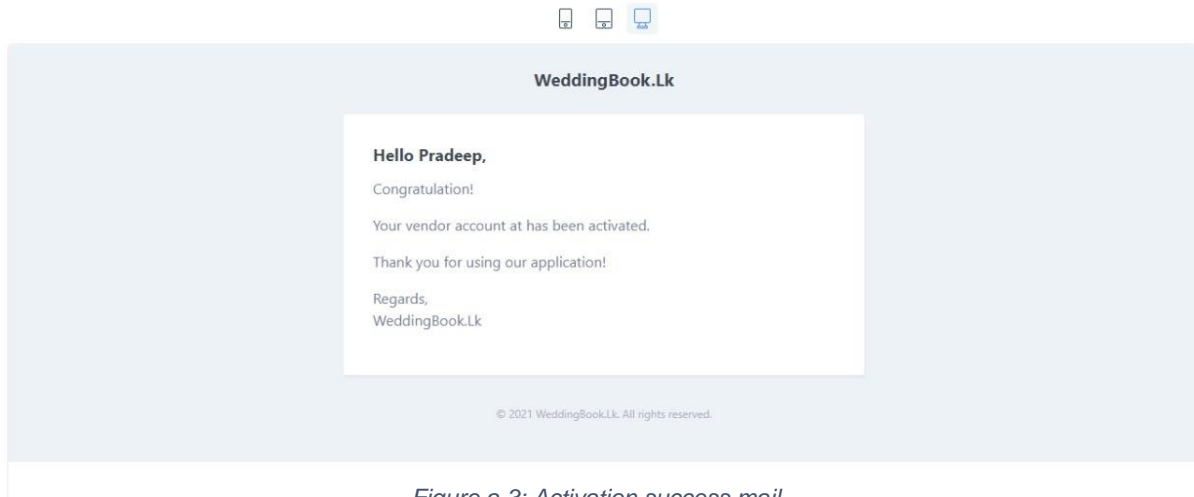


Figure a.3: Activation success mail

When the administrator deactivates the business profile request, send the deactivated completed email to the vendor. (Figure a.4)

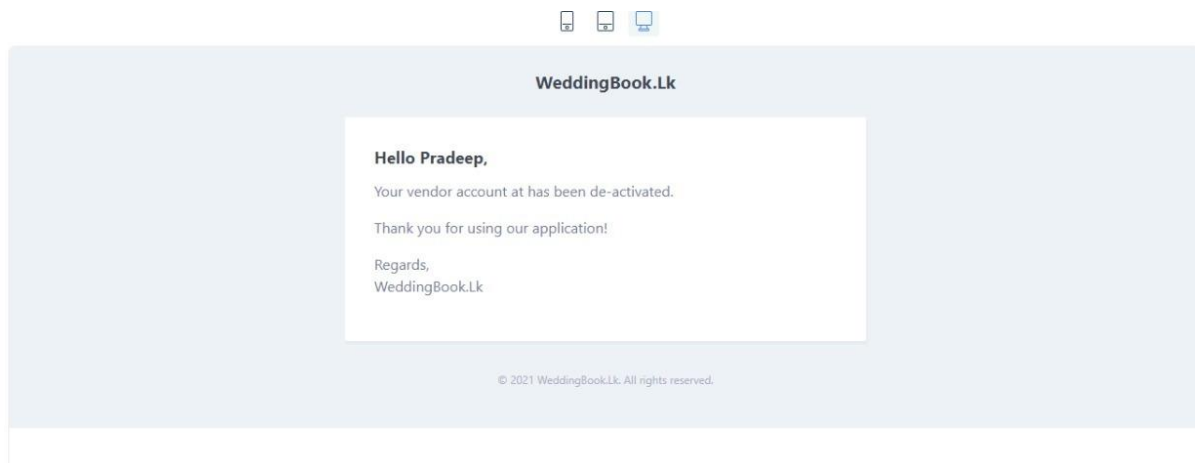


Figure a.4: Deactivation success mail

Payment receipt for success payment of vendor registration. (Figure a.5)

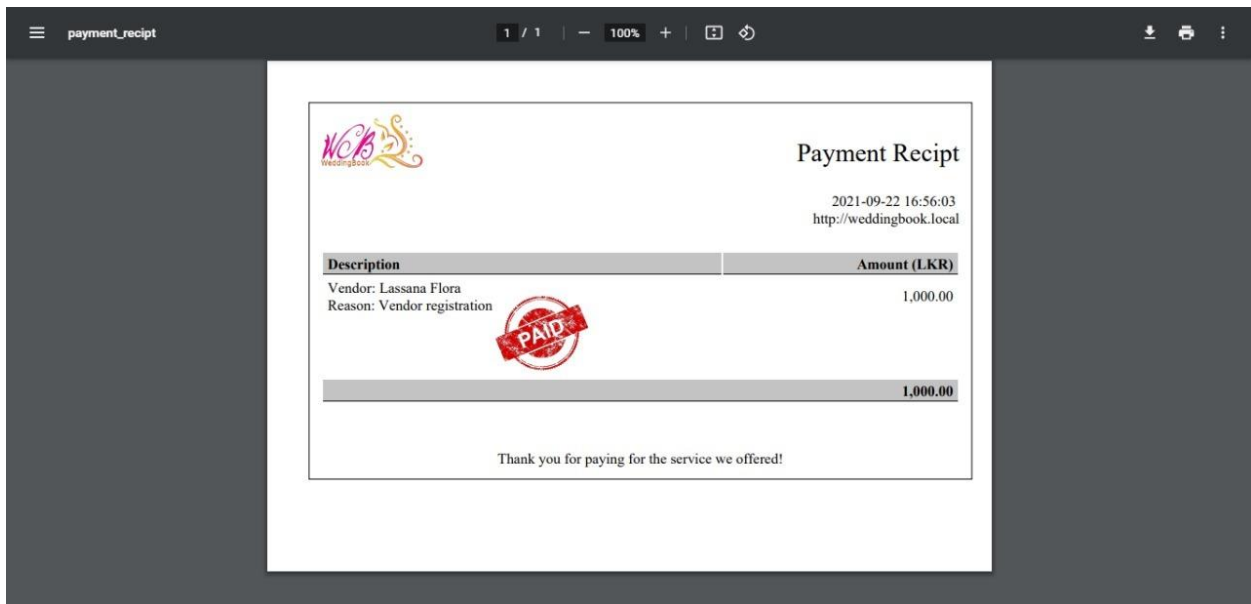


Figure a.5: Payment success receipt for registration

Payment receipt for success payment of publishing advertisements. (Figure a.6)

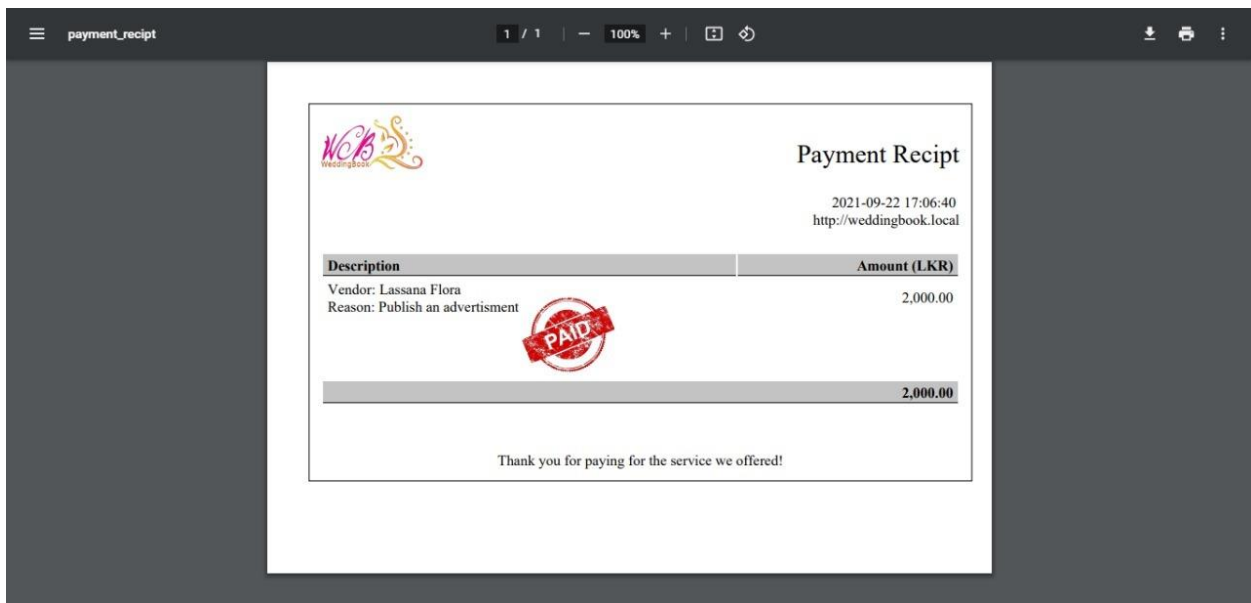


Figure a.6: Payment success receipt for registration

Application allows the administrator to generate “Vendor Report”. It includes all the active and inactive vendors of the wedding book web application. (Figure a.7)

Name	Email	Contact	Ratings	Status
Bella Grace Florist	hasithashehanikaushalya+f333@gmail.com	07857546273	0 %	ACTIVE (PUBLISHED)
M&D Flora	hasithashehanikaushalya+h51@gmail.com	07189897987	0 %	PENDING
B Florist	hasithashehanikaushalya+f11@gmail.com	078989478	0 %	ACTIVE (PUBLISHED)
Bloom Home	hasithashehanikaushalya+f10@gmail.com	07898687878	0 %	ACTIVE (PUBLISHED)
MSD Florist	hasithashehanikaushalya+f9@gmail.com	0787646782	0 %	ACTIVE (PUBLISHED)
S & T Florist	hasithashehanikaushalya+f6@gmail.com	0712787657	0 %	ACTIVE (PUBLISHED)
Promoda Florist	hasithashehanikaushalya+f4@gmail.com	0712345445	0 %	ACTIVE (PUBLISHED)
Marji Flora	hasithashehanikaushalya+f100@gmail.com	0718765434	100 %	ACTIVE (PUBLISHED)
Wish Bakery	hasithashehanikaushalya+card1@gmail.com	07134343434	0 %	ACTIVE (PUBLISHED)
Salon Era	hasithashehanikaushalya+s1@gmail.com	0711212121	0 %	ACTIVE (PUBLISHED)
Flower House	hasithashehanikaushalya+f3@gmail.com	0714444445	100 %	ACTIVE (PUBLISHED)
Cinnamon Hotel	hasithashehanikaushalya+h1@gmail.com	0713333333	0 %	ACTIVE (PUBLISHED)
Lassana Flora	hasithashehanikaushalya+f2@gmail.com	0714444444	0 %	ACTIVE (PUBLISHED)
2nd Chance Flower	hasithashehanikaushalya+f1@gmail.com	071222222	100 %	DE ACTIVATED (UNPUBLISHED)

Figure a.7: Vendor report generated through admin login.

Application allows the administrator to generate “Payments Report”. It includes all the list of payment transaction for vendor profile registration and advertisement. (Figure a.8)

#	Vendor Name	Description	Date	Status	Amount
1	Marji Flora	vendor registration	2021-09-27 13:04:18	PENDING	LKR 1,000.00
2	Marji Flora	vendor registration	2021-09-27 13:02:53	SUCCESS	LKR 1,000.00
3	Wish Bakery	vendor registration	2021-09-27 10:04:41	SUCCESS	LKR 1,000.00
4	Salon Era	vendor registration	2021-09-27 09:24:31	PENDING	LKR 1,000.00
5	Salon Era	vendor registration	2021-09-27 09:24:29	SUCCESS	LKR 1,000.00
6	Flower House	publish an advertisement	2021-09-27 07:58:04	PENDING	LKR 2,000.00
7	Flower House	vendor registration	2021-09-27 07:54:22	SUCCESS	LKR 1,000.00
8	2nd Chance Flower	publish an advertisement	2021-09-27 07:39:03	PENDING	LKR 2,000.00
9	Cinnamon Hotel	vendor registration	2021-09-27 07:33:05	SUCCESS	LKR 1,000.00
10	Cinnamon Hotel	publish an advertisement	2021-09-27 07:30:47	PENDING	LKR 2,000.00
11	Lassana Flora	publish an advertisement	2021-09-26 16:20:38	PENDING	LKR 2,000.00
					LKR 15,000.00

Figure a.8: Payment report generated through admin login

Appendix B

Implemented User Interfaces

Figure b.1: shows the home page of the wedding book application. This is the public user view. It mainly includes the district list panel, advertisement panel, slider view. And there is an easy way to find out recently registered vendors at the site. It facilitates any vendor to register with the application using the “Create your business profile” button.



Figure b.1: Home Page

Following Figure b.2 shows the “About Us” page of the wedding book web application. Any user can go through the information available on that page.

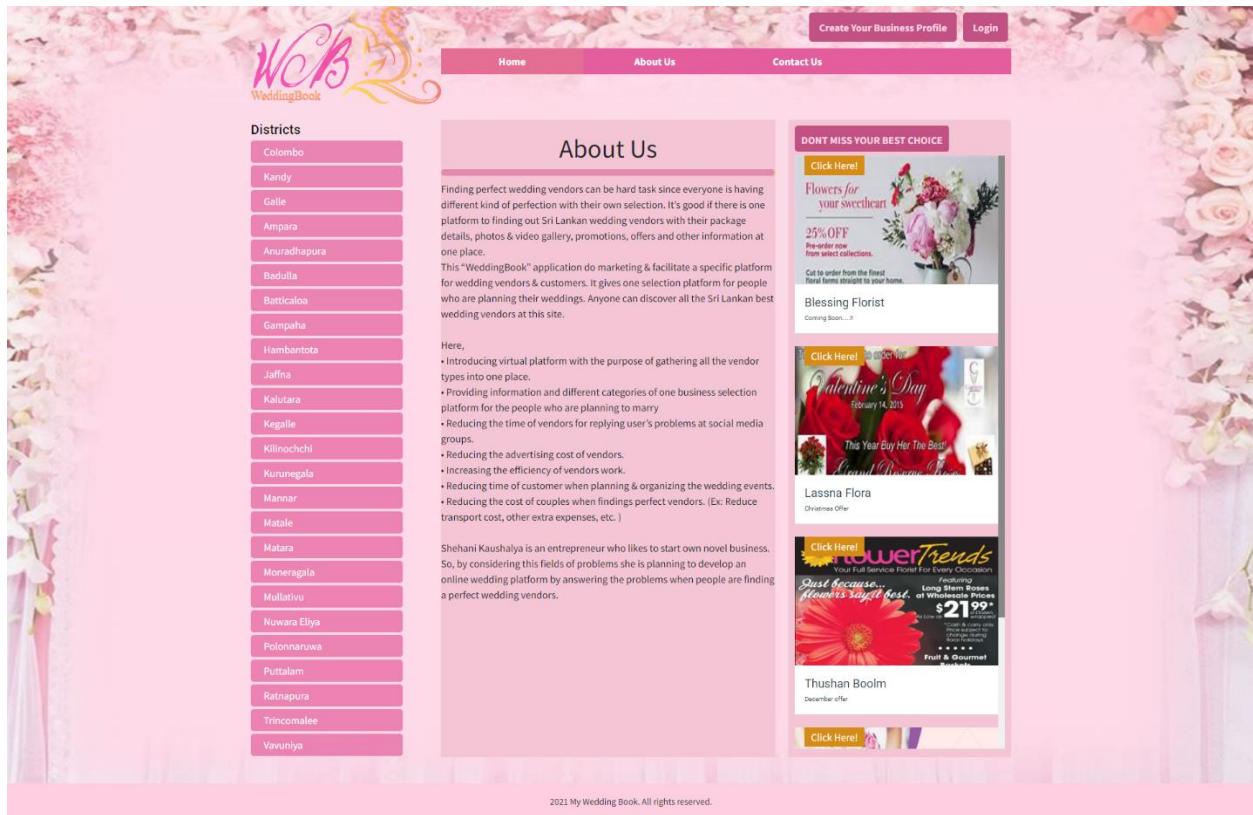


Figure b.2: About us page

The Weeding Book application provides their contact details under “Contact Us” page. Following Figure b.3: shows the User Interface of contact us page.

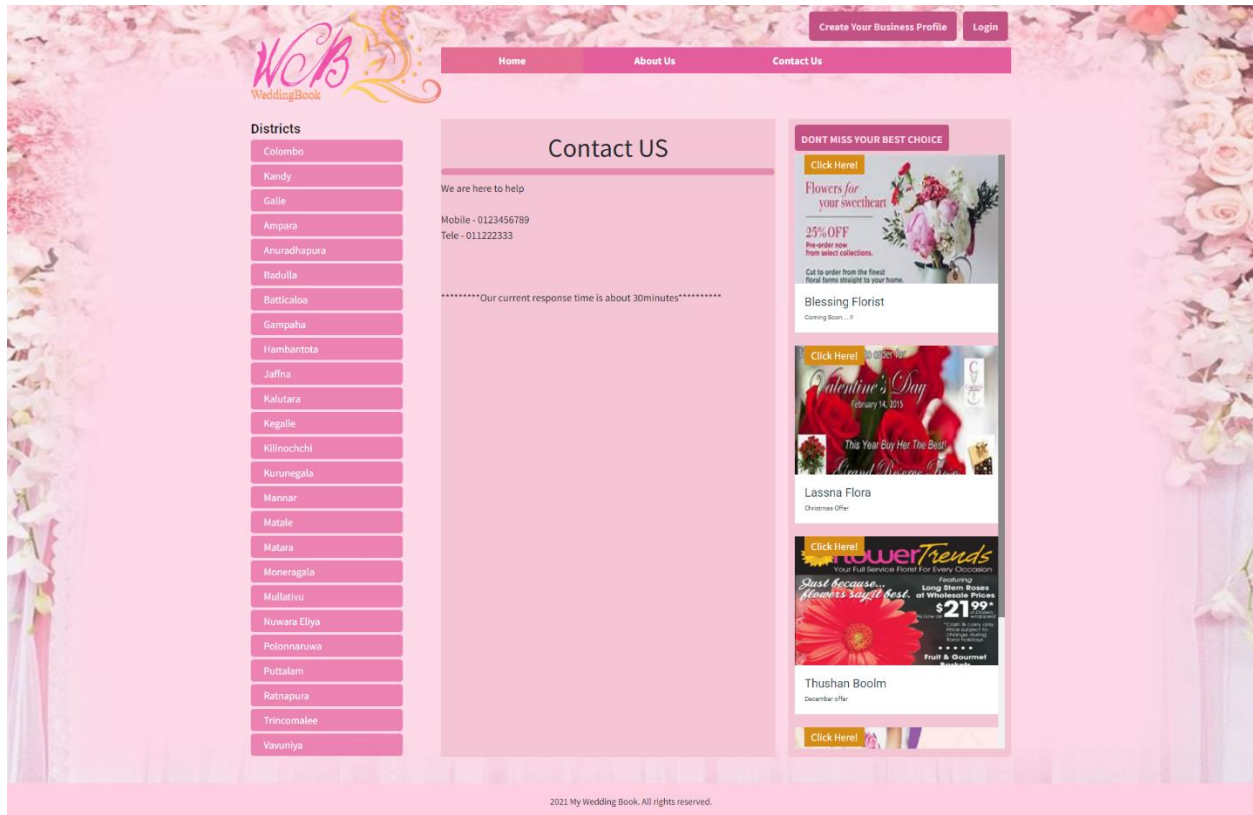


Figure b.3: Contact us page

When the user clicks on any district of district panel, the application shows the available vendor category list with the list of registered vendors as shown in Figure b.4.



Figure b.4: Category list page

Figure b.5 shows the registered vendor profile at wedding book application. When a public user clicks on the available vendor under category list, the application will navigate to the following vendor public view page.



Figure b.5: Vendor public view page

Any user can click on the “check availability button “at published vendor profile and check the availability of the vendor using the following form. (Figure b.6)

The screenshot shows a 'Check Availability' form with the following fields:

- YOUR NAME *: Your Name
- ADDRESS: Address
- TELEPHONE NUMBER *: Telephone Number
- EMAIL *: Email
- FUNCTION DATE *: A calendar for December 2021. The 1st is red, the 2nd is orange, and the 3rd is yellow.
- TIME DURATION *: Select Time (dropdown menu)

Buttons: Cancel, Submit

Figure b.6: Public user check availability form

Through the date availability checker, any public user can easily see the already scheduled dates and available dates of the relevant vendors. (Figure b.7)

The screenshot shows the 'Check Availability' form with the following filled fields:

- YOUR NAME *: Suren
- ADDRESS: No : 74/12 Parise Perera Road jaela
- TELEPHONE NUMBER *: 0712222290
- EMAIL *: suren123@gmail.com
- FUNCTION DATE *: A calendar for December 2021. The 1st is red, the 2nd is orange, and the 3rd is blue.
- TIME DURATION *: 07:30 AM to 09:30 AM

Buttons: Cancel, Submit

Figure b.7: Check availability calendar

Public users can add review and rating after clicking on the “Write Review” button. Then the application will be navigated to the following form. (Figure b.8)

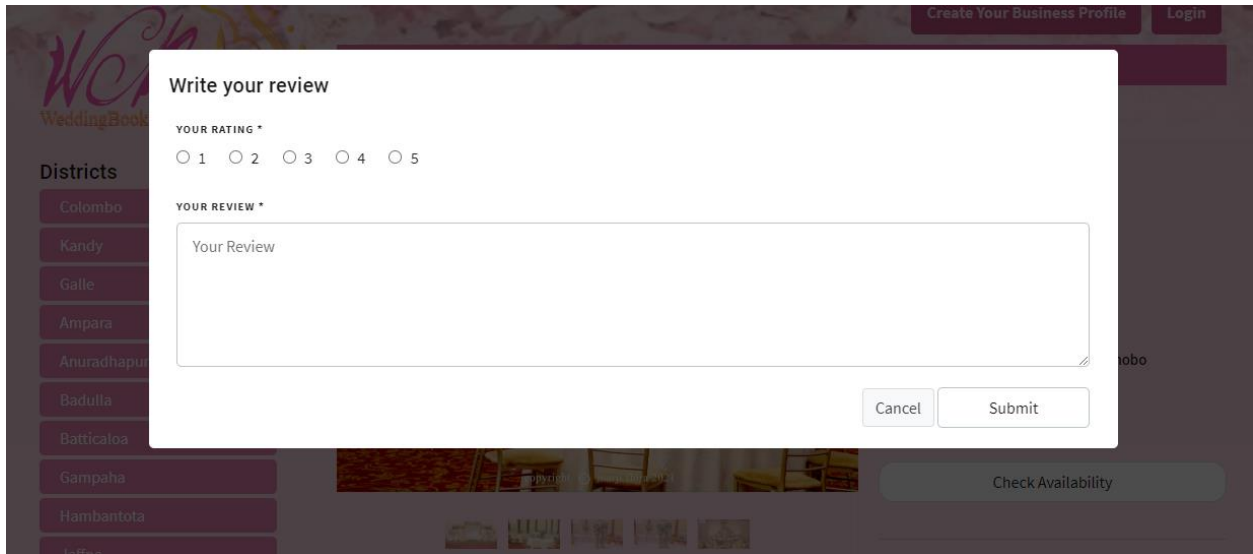
The image shows a web browser window displaying the 'Write your review' form. The form is a white modal box centered on a dark background. At the top of the modal, it says 'Write your review'. Below this, there is a section for 'YOUR RATING *' with five radio buttons labeled 1, 2, 3, 4, and 5. Underneath the rating is a section for 'YOUR REVIEW *' with a large text area containing the placeholder text 'Your Review'. At the bottom right of the modal, there are two buttons: 'Cancel' and 'Submit'. In the background, the website's navigation menu is visible, including 'Create Your Business Profile' and 'Login' buttons, and a list of districts on the left side.

Figure b.8: Public user adding review and ratings form

Registered vendors can click on the “login” button then the application will navigate to the following login page. (Figure b.9) With this login registered vendors or administrators can login with their created user profiles.

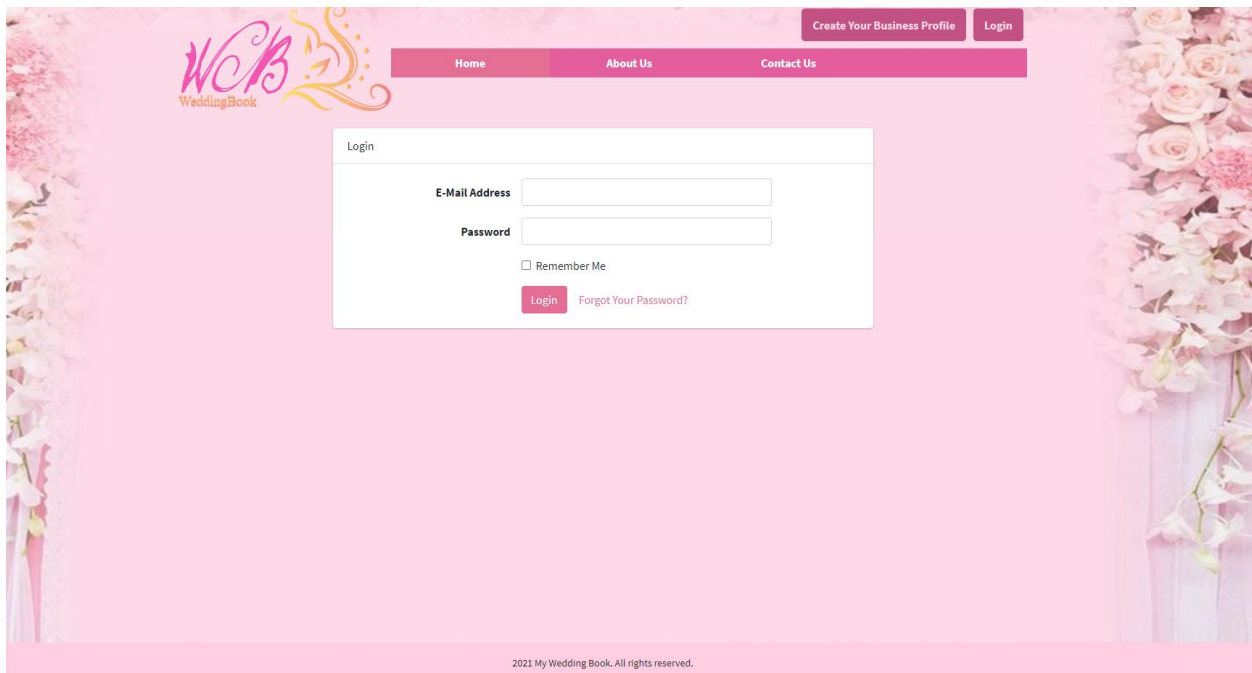
The image shows the login page for administrators or vendors. The page has a pink background with floral decorations on the sides. At the top, there is a navigation bar with 'Home', 'About Us', and 'Contact Us' links, and buttons for 'Create Your Business Profile' and 'Login'. The main content area features a white login form with the title 'Login'. The form includes fields for 'E-Mail Address' and 'Password', a 'Remember Me' checkbox, and a 'Login' button. A link for 'Forgot Your Password?' is also present. At the bottom of the page, there is a footer that reads '2021 My Wedding Book. All rights reserved.'

Figure b.9: Administrator or vendor login page

When a user clicks on the “Create your business profile”, the application will navigate to the vendor registration page. (Figure b.10)

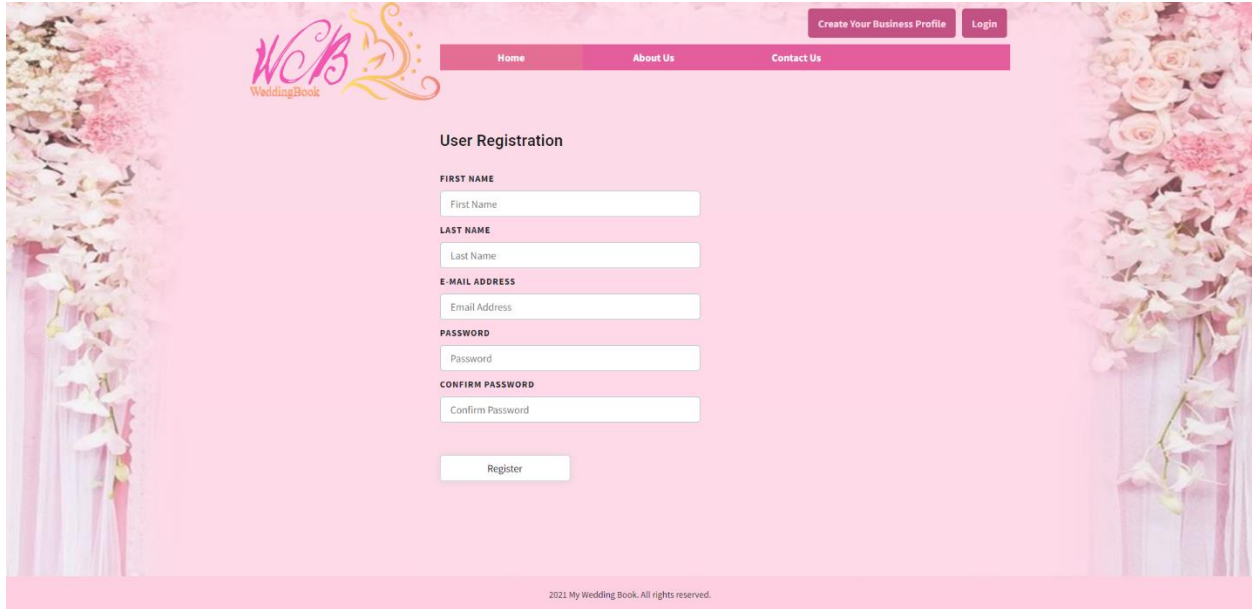


Figure b.10: Vendor registration page

After completing registration of the application, it navigates to the “select a business category” page. (Figure b.11)

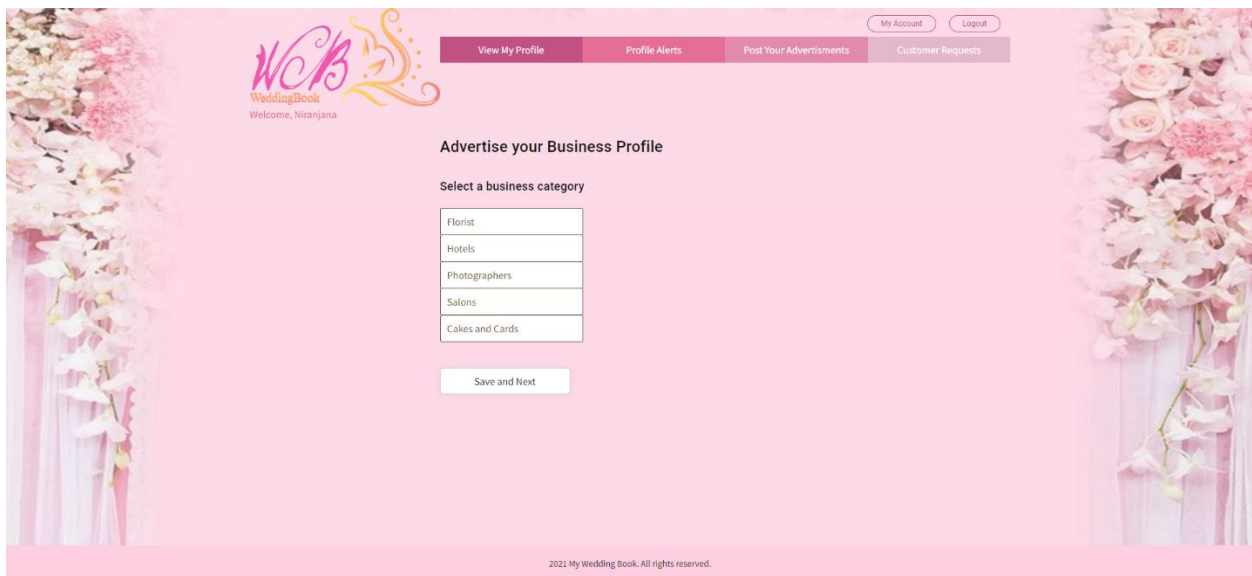


Figure b.11: Vendor category select page

After clicking on the next button of the vendor category select page, the vendor can select the required district and city from the following page. (Figure b.12)

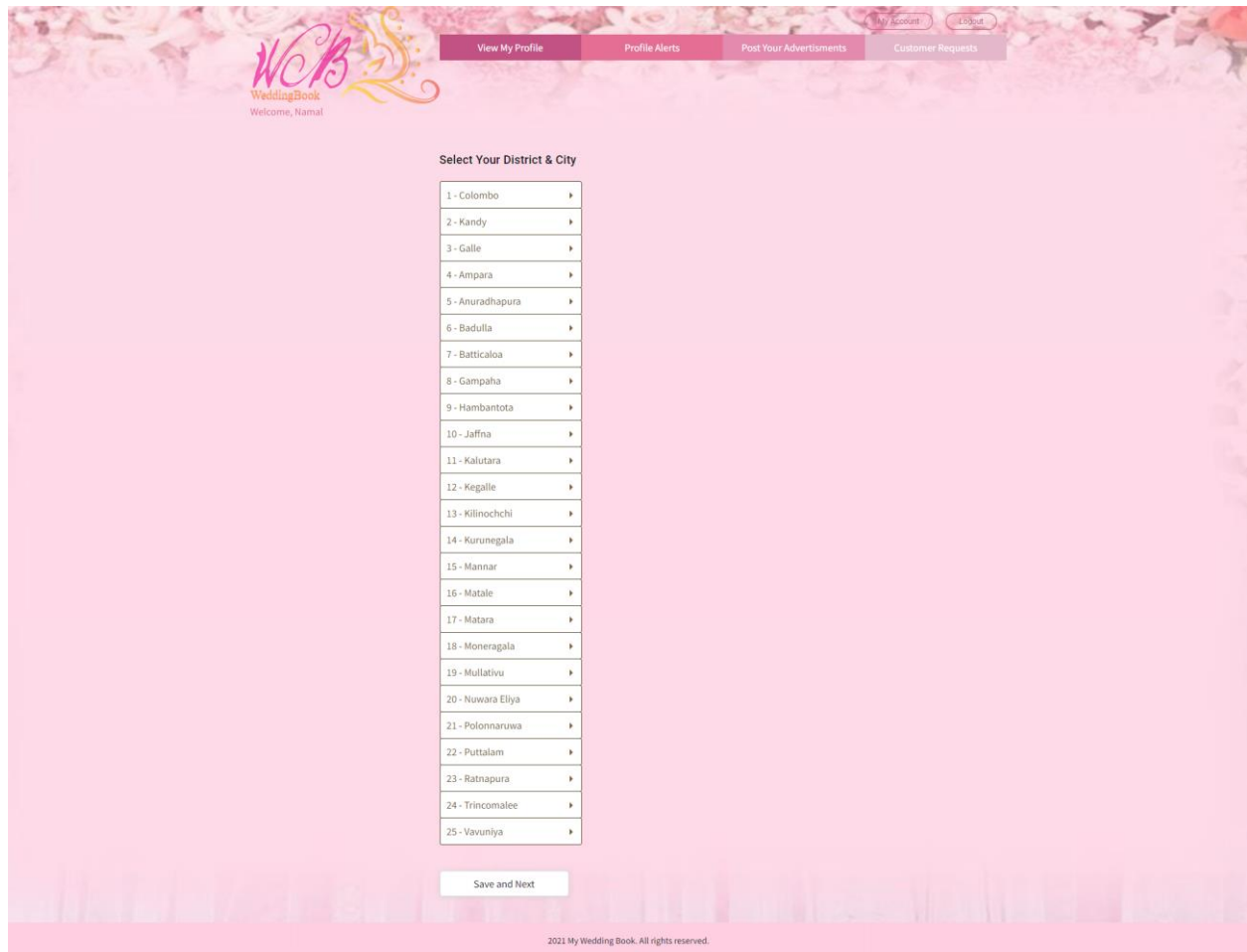


Figure b.12: District and city page

As shown in Figure b.13, vendors can add business profile information for the profile creation.

Figure b.13: Vendor business profile information page

Then the application navigates to the about us and package details adding page. (Figure b.14)

Figure b.14: Vendor information filling page

As shown in Figure b.15, vendors can upload images to their profile album.

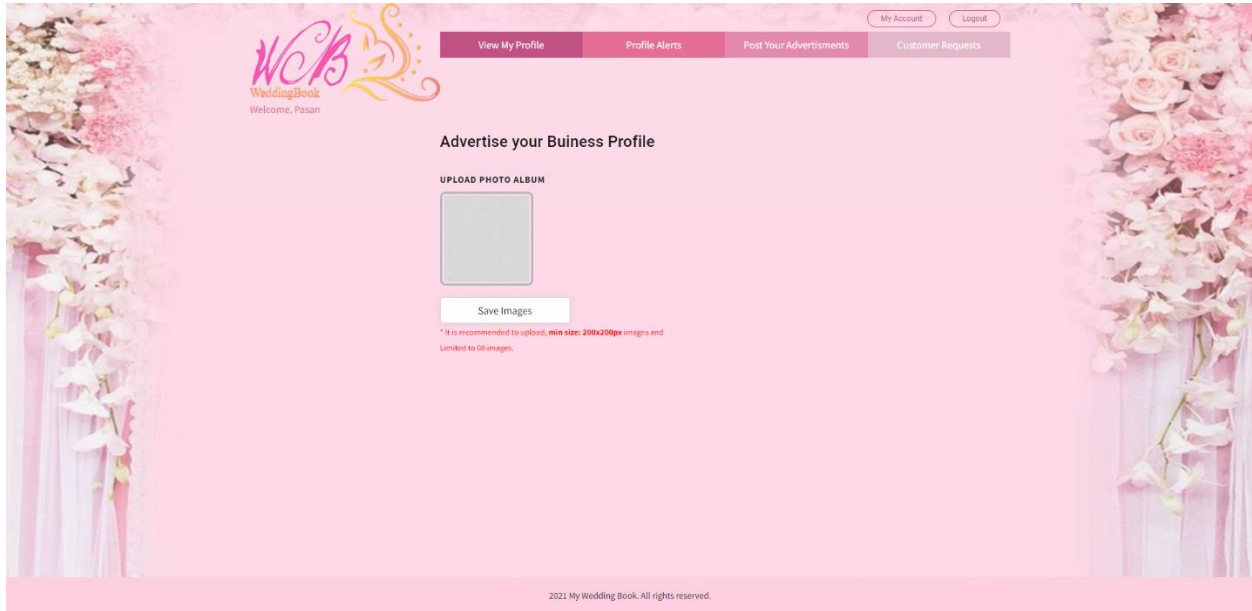


Figure b.15: Vendor upload photo album page

After clicking on the “Save images” button, the following success message displays as indicated in Figure b.16.

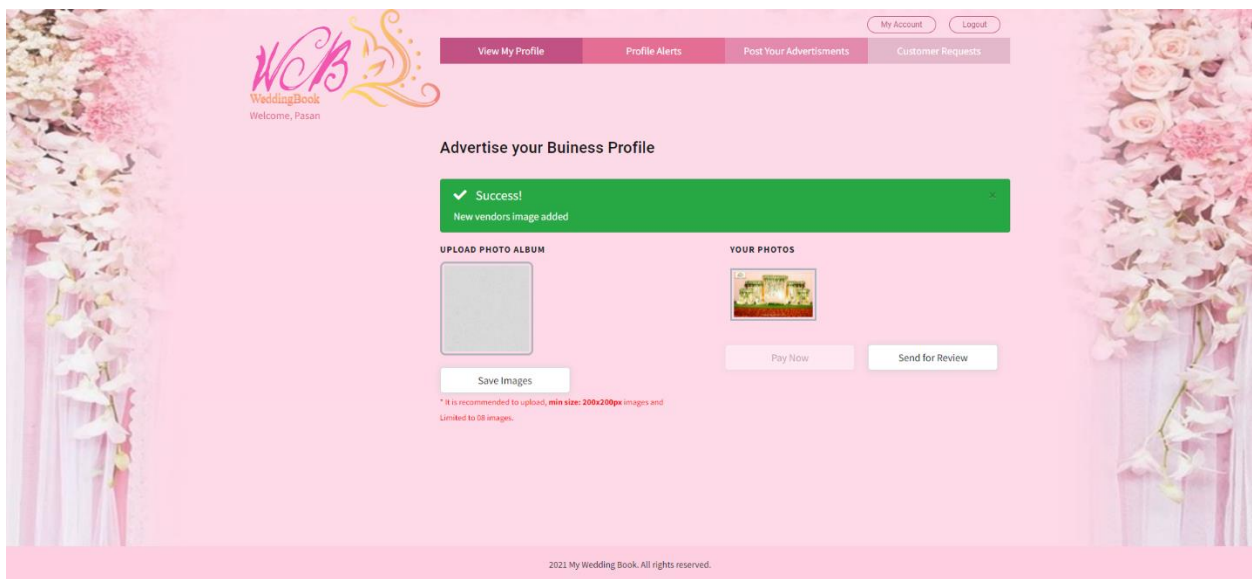


Figure b.16: Image upload success notification

Vendor can publish any advertisement with the following page. (Figure b.17). This page facilitates uploading and paying the required amount as shown in Figure b.18.

Figure b.17: Vendor advertisement uploading page

Figure b.18: vendor advertisements payment enable page

Vendors can see the following scheduling calendar as shown in Figure b.19. With the scheduling calendar, vendors easily find out the new request coming from the customers with the blue color tags. Once the vendor accepts the requests it shows with green color tags. And also, vendors can see the customers information with customer request popup window (Figure b. 20).

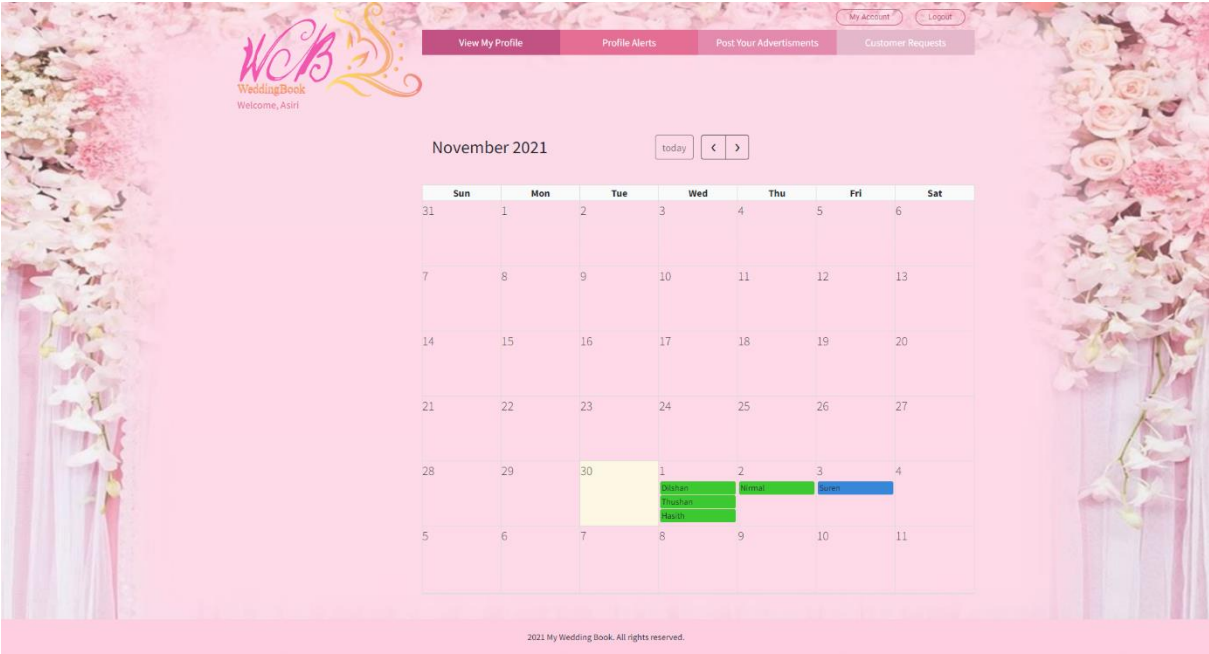


Figure b.19: Vendor scheduling calendar

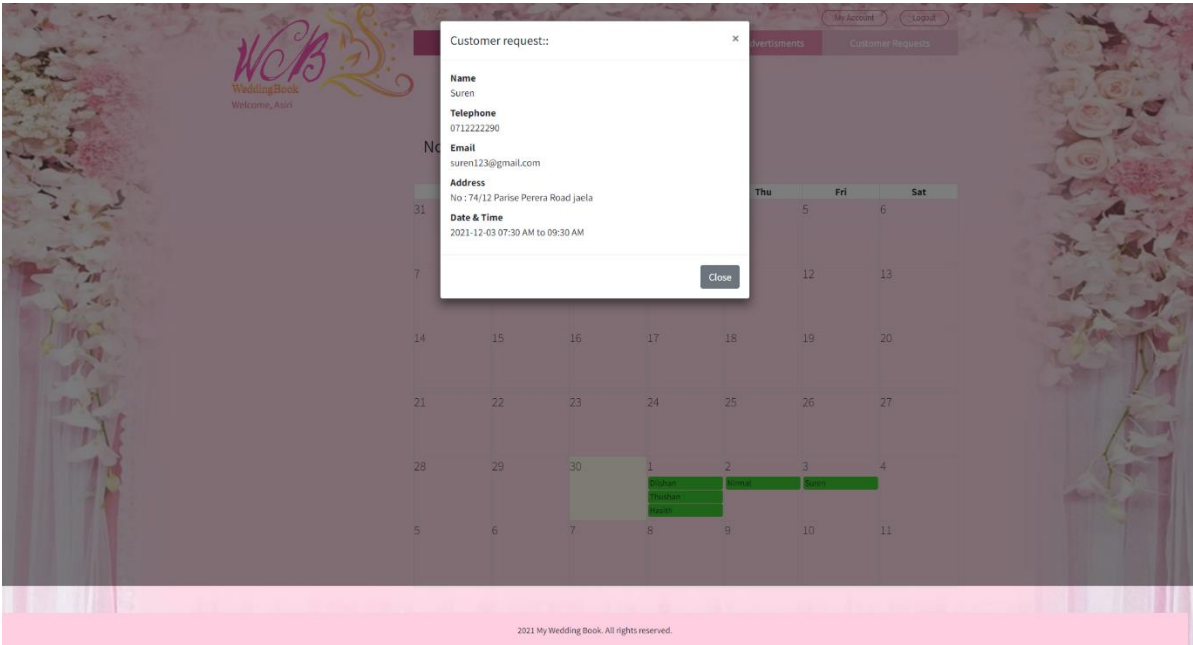


Figure b.20: Customer's request information

In the admin account there are 6 modules. Such as vendors, advertisements, locations, users, image management and payments. Administrator can see the received vendor profile request under vendors' page. (Figure b.21)

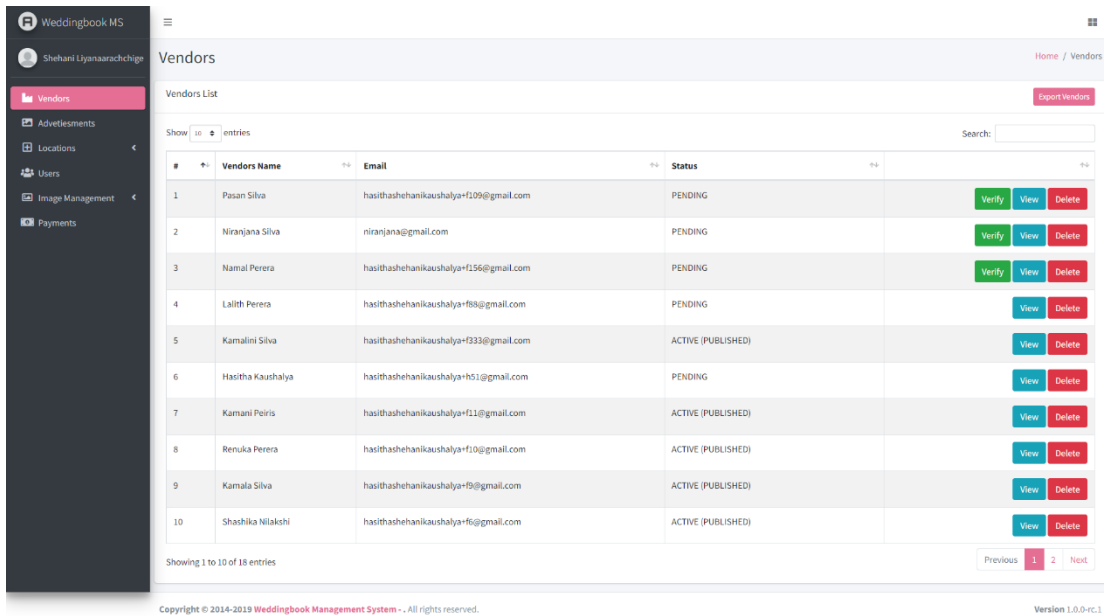


Figure b.21: Vendor page of administrator account

After clicking on the “view” button administrator can review the created vendor profile information as shown in Figure b.22.

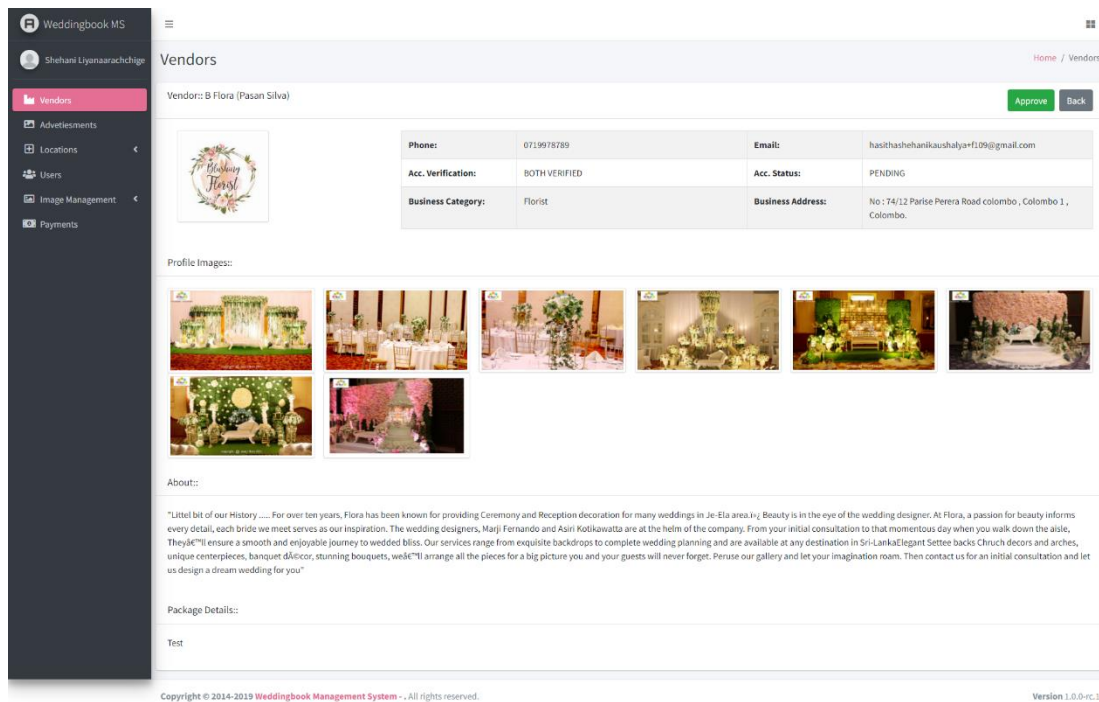


Figure b.22: Vendor profile view of administrator account

Once the vendor settles the payment, the administrator can activate the vendor profile using the “Active” button as shown in Figure b.23.

The screenshot shows the 'Vendors' management interface in the Weddingbook MS system. The vendor profile for 'B Flora (Pasan Silva)' is displayed, and a green success banner indicates that the vendor account has been successfully approved. The profile card includes the following details:

Phone:	0719978789	Email:	hasithashehanikaushalya+f109@gmail.com
Acc. Verification:	BOTH VERIFIED	Acc. Status:	APPROVED
Business Category:	Florist	Business Address:	No: 74/12 Parise Perera Road colombo, Colombo 1, Colombo.

Below the profile card, there is a section for 'Profile Images' showing a gallery of wedding decorations. The 'About:' section contains the following text:

"Little bit of our History For over ten years, Flora has been known for providing Ceremony and Reception decoration for many weddings in Je-Ela area. Beauty is in the eye of the wedding designer. At Flora, a passion for beauty informs every detail, each bride we meet serves as our inspiration. The wedding designers, Marji Fernando and Asiri Kotikawatta are at the helm of the company. From your initial consultation to that momentous day when you walk down the aisle, they'll ensure a smooth and enjoyable journey to wedded bliss. Our services range from exquisite backdrops to complete wedding planning and are available at any destination in Sri-Lanka. Elegant Settees, Churched arches, unique centerpieces, banquet décor, stunning bouquets, we'll arrange all the pieces for a big picture you and your guests will never forget. Peruse our gallery and let your imagination roam. Then contact us for an initial consultation and let us design a dream wedding for you"

The 'Package Details:' section is currently empty, showing only the word 'Test'.

Figure b.23: Vendor profile activation

All the advertisement approval requests can see under advertisement page. Administrator can view the uploaded image by vendor using “View” button. (Figure b.24)

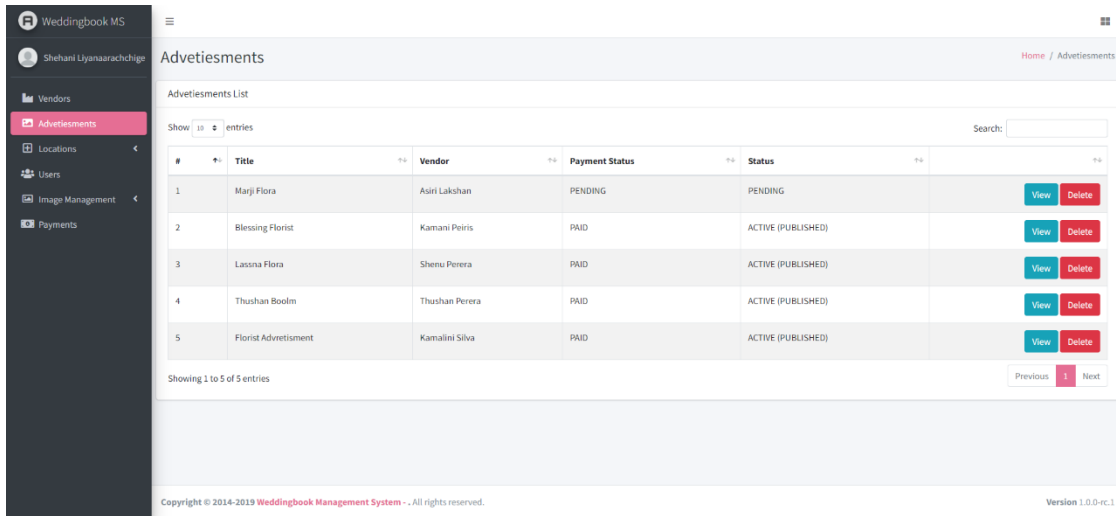


Figure b.24: Advertisement request page

Figure b.25 below shows the advertisement approval page. Here administrator can review and approve the advertisement to publish at the home page of the web application.

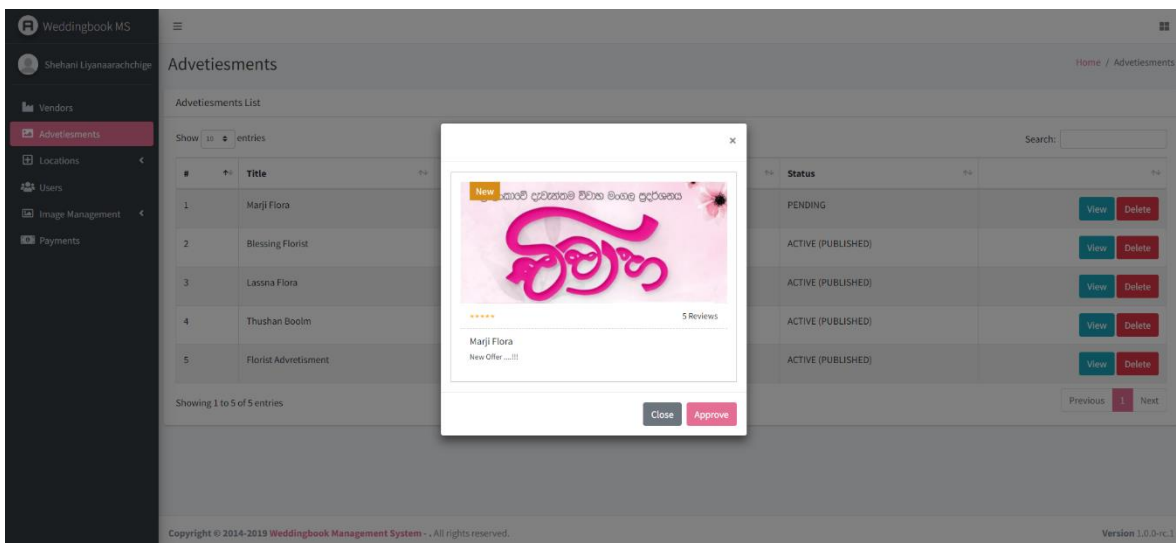


Figure b.25: Advertisement approve page

Administrator can add districts and cities after click on “locations”. Administrator can edit and delete added locations. (Figure b.26)

The screenshot displays the 'Districts' management page. On the left is a dark sidebar with navigation links: Vendors, Advertisements, Locations (highlighted), Users, Image Management, and Payments. The main content area is titled 'Districts' and includes a search bar and an 'Add Districts' button. Below is a table listing 25 districts, all with a status of 'Active'. Each row contains an ID, the district name, and 'Edit' and 'Delete' buttons.

#	District Name	Status	
1	Colombo	Active	Edit Delete
2	Kandy	Active	Edit Delete
3	Galle	Active	Edit Delete
4	Ampara	Active	Edit Delete
5	Anuradhapura	Active	Edit Delete
6	Badulla	Active	Edit Delete
7	Batticaloa	Active	Edit Delete
8	Gampaha	Active	Edit Delete
9	Hambantota	Active	Edit Delete
10	Jaffna	Active	Edit Delete
11	Kalutara	Active	Edit Delete
12	Kegalle	Active	Edit Delete
13	Kilinochchi	Active	Edit Delete
14	Kurunegala	Active	Edit Delete
15	Mannar	Active	Edit Delete
16	Matale	Active	Edit Delete
17	Matara	Active	Edit Delete
18	Moneragala	Active	Edit Delete
19	Mullativu	Active	Edit Delete
20	Nuwara Eliya	Active	Edit Delete
21	Polonnaruwa	Active	Edit Delete
22	Puttalam	Active	Edit Delete
23	Ratnapura	Active	Edit Delete
24	Trincomalee	Active	Edit Delete
25	Vavuniya	Active	Edit Delete

At the bottom of the page, there is a footer with the text: 'Copyright © 2014-2019 Weddingbook Management System - . All rights reserved.' and 'Version 1.0.0-rc.1'.

Figure b.26: District page of administrator account

Using following page, administrator can add and delete images to home page slider view of wedding book web application. (Figure b.27)

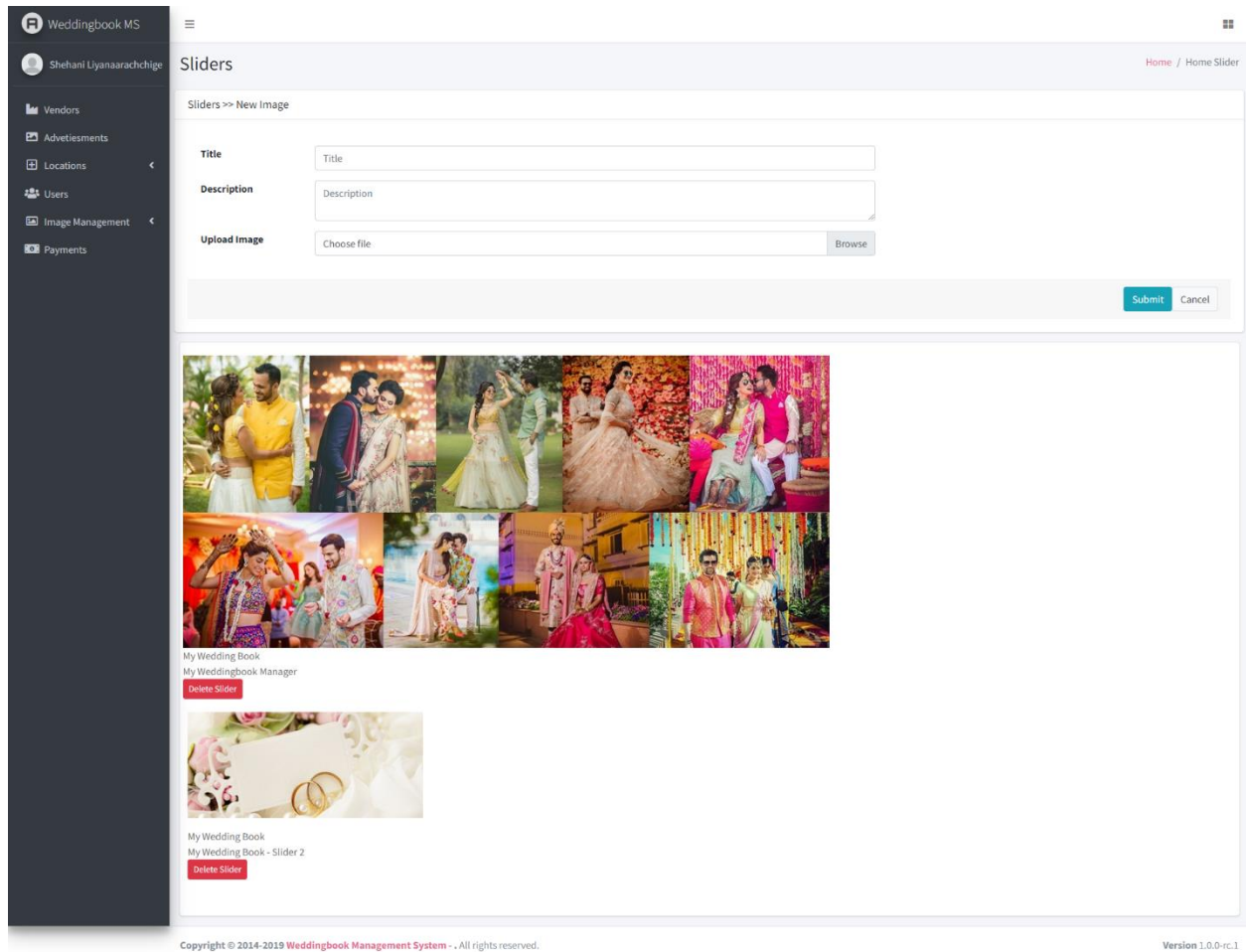


Figure b.27: slider page of administrator account

Under the payment module administrator can generate all the list of payments related to the profile registration and advertisements. (Figure b.28)

The screenshot displays the 'Payments' module in the Weddingbook MS system. The interface includes a sidebar with navigation options: Vendors, Advertisements, Locations, Users, Image Management, and Payments (highlighted). The main content area shows a 'Payments List' with a search bar and date filters (From: 11/01/2021, To: 11/30/2021). The list contains 10 entries, each with a unique ID, vendor name, description, amount (LKR 2,000.00), and status (PENDING or SUCCESS). A pagination control at the bottom indicates 'Showing 1 to 10 of 33 entries'.

#	Vendor Name	Description	Amount	Status
1	Bella Grace Florist	publish an advertisement	LKR 2,000.00	PENDING
2	Bella Grace Florist	vendor registration	LKR 1,000.00	SUCCESS
3	Flower House	publish an advertisement	LKR 2,000.00	PENDING
4	Wish Bakery	publish an advertisement	LKR 2,000.00	PENDING
5	Bloom Home	publish an advertisement	LKR 2,000.00	PENDING
6	S & T Florist	publish an advertisement	LKR 2,000.00	PENDING
7	Promoda Florist	publish an advertisement	LKR 2,000.00	PENDING
8	Lassana Flora	publish an advertisement	LKR 2,000.00	PENDING
9	Promoda Florist	publish an advertisement	LKR 2,000.00	PENDING
10	B Florist	publish an advertisement	LKR 2,000.00	PENDING

Showing 1 to 10 of 33 entries

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Figure b.28: Payment list report