

Web Based Event Management System for International Conference of Sri Lanka Navy

MS MADARA

2020



Web Based Event Management System for International Conference of Sri Lanka Navy

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

MS MADARA

University of Colombo School of Computing

2020



Declaration

The thesis is my original work and has not been submitted previously for a degree at this or any other university/institute.

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

Student Name: MS Madara

Registration Number: 2017/MIT/042

Index Number: 17550422

Signature:

Date:

This is to certify that this thesis is based on the work of

Mr./Ms.

Under my supervision. The thesis has been prepared according to the format stipulated and is of acceptable standard.

Certified by:

Supervisor Name: Dr. M G N A S Fernando

Signature:

Date:

Abstract

Sri Lanka Navy the golden fence around the country is performing a tremendous job as our nation's first line of defense. In order to achieve organizational goals as one team navy have to be well organized. In recent past many in house information technology solutions have been implemented to address the burning issues in different kinds of administrative works. These systems were able to provide a positive impact to improve the efficiency of existing administrative practices.

The Galle Dialogue international maritime conference is the blue ribbon event of Sri Lanka Navy. This event will be participated by many countries around the world in the maritime domain. There are lots of works to be done during the organization of the conference. Organizing the event has become a huge time consuming and considerable human hours taking task with massive background work to be done for the success of the event.

It is identified that a web based event management solution should be able to increase the productivity and efficacy of the conference. A web based solution was developed using scripting language PHP and MySQL Database tool to solve the above mentioned task. The event management system for Galle Dialogue international maritime conference was proposed to address all issues existing in the current Microsoft Excel based spreadsheet based system. The system handles all the main functionalities related to the event management such as participant registrations, receiving of papers, receiving of quotations from suppliers, selection of suitable suppliers and papers. Also include allocation of resources for participants and data needed for other related works like ID cards.

The development of the system undergoes all the phases of the software development life cycle. It is sure that this web based event management system for Galle Dialogue international maritime conference will be able to address all the issues by changing the life of everyone involved in the business.

Acknowledgements

First and foremost I would like to thank the academic/nonacademic Staff of University of Colombo School of Computing for the support and guidance provided throughout the Masters programme.

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List of Abbreviations

EMV – Event Management System

PHP – Hyper Text Pre Processor (Recursive Term)

RDMS – Relational Database Management System

RUP - Rational Unified Process

SDLC – System Development Life Cycle

SLN- Sri Lanka Navy

SQL – Structured Query Language

UML - Unified Modeling Language

CHAPTER 1

INTRODUCTION

CHAPTER 1 Introduction

1.1 Problem

Navy perform a vital role in protecting an Island nation. Sri Lanka Navy known as “golden fence around the country” perform a tremendous job to its motherland for past six decades especially during the civil war period. It is highly essential to become a perfect organization in order to achieve organizational goals as a one team.

For a Country like Sri Lanka which is geographically in a strategically import location in the Indian Ocean and in a post war situation it is essentially to maintain good relationship with other navies around the world. Also Sri Lanka has been a focal point of maritime activities through sea borne trade and commerce along its history. Since 2010 Sri Lanka navy have stated to strengthen the regional maritime cooperation with other friendly forces and interested parties by conducting the annual event gathering named “Galle Dialogue International Maritime Conference” based on the southern historical city of the country Galle. Since its inception in 2010 year by year it has grown to a main event in the Indian Ocean region, participated by more than 60 nations and maritime organizations around the world each time.[1]

During an Event like Galle Dialogue International Maritime Conference organizing is very challenging. Altogether the military organization like Sri Lanka navy well capable of dealing event management of this caliber with a huge human resources, it has become very difficult to manage it using manual system like maintaining spreadsheet in traditional manner. There are lot of work in the back end to be done during an event like this and it need lot of time and effect to do it. Because of improper event management lot of resources and time is wasted with the redundant of work.

Therefore it is understood that there should be a well-defined mechanism to control in such a way to overcome these matters by assisting organizers by providing better guidance.

1.2 Scope of the project

The Event Management System (EMS) for Galle Dialogue International Maritime Conference is developed as a web based system to be accessible from anywhere and anytime.

The main objective of the project is to incorporate the following the functionalities to the web-based event management system for smooth functioning of the Galle Dialogue International Maritime Conference in Sri Lanka Navy.

Head of the secretariat is the head of organizing committee and he will assigned sub committees for different organizing work to be carried. Sub duties committees as follows;

- Participant registration/participant information and relevant publicity
- Papers management (call for papers, reviewing ,feedbacks and correction)
- Transportation management(fight details and Vehicle Allocation)
- Accommodation arrangement (hotel allocations)
- Dietary panning
- Liaison officers allocation details

- Accreditation processes (IEEE etc.)
- Seating arrangement. (for conference and official reception)
- Venue management (entertainment arrangements and decoration arrangements)
- Personnel meeting arrangement

Apart from above mention tasks EMS is able to collect quotation from suppliers for the conference arrangements.

Also EMS admin is able to crate and assigned authentication level for different level of users of the system.

1.3 Objective of the Project

Objective of this project is to facilitate the smooth function of the conference effectively and efficiently by replacing the existing spreadsheet based manual management process with providing additional value to its organizers. With the EMS organizing committee can collaboratively communicate with all parties regardless the geo locations and time. Performing tasks in manual will consume lot of man hours and will leads to less productivity state. By using the system all committees do not need to walk to the conference office at naval headquarters to collect data for their tasks. Sub committees can access the system from any place and get the data as they want.

1.4 Excepted Outcomes

- Users are able to access the system at any time and get needed outputs as they want based on their access level.
- Participants is able to register online and edit details when needed.
- Suppliers is able to send the quotations
- Admin is able to create user groups and assign user access levels
- System will provide details of participants and summary report of all participants by categories.
- Paper presenter will be able to submit the papers online for selection process.

1.5 Content of the Report

Upcoming chapters explained below mentioned information in depth. Chapter 2 explains the background information based on the literature review of the system where as chapter 3 explains how design of the implemented system is carried out. In chapter 4, we will be discussing how the proposed solution is implemented to make the workable product. User evaluation and results will be discussed under chapter 5. In chapter 6, future extensions and improvements of the developed web application will be discussed.

CHAPTER 2

BACKGROUND/LITERATURE REVIE

CHAPTER 2 Background/Literature Review

2.1 Overview

To achieve above mention aims and objective it is required to clearly understand the system functional and non-functional requirements. System will be implemented according to the software development life cycle. Hence entire systems' effectiveness and efficiency will be depending on requirements that gathered and identified in the initial phase of the development life cycle. Following are the functional and non-functional requirements of the system to achieve the system goals. Also this chapter will include background information and exciting similar systems in details.

2.2 Functional Requirement

- There should be a super admin to manage user authorizations levels
- The participants should be able to register for the conference online.
- The suppliers should be able to submit quotation for the conference online
- Paper submission should be able to receive online.
- System should be able to generate report as per user request

2.3 Non-Functional Requirement

- **Accessibility:** System should be accessible at any time of the day for all its" users.
- **Availability:** System should be available for its users 24X7 days.
- **Security:** It is required to remove the unauthorized access to the business data.
- **Maintainability:** Administrator has all lower level of maintainability through several interfaces. Maintainability of the system will be taken care by Information Technology department of Sri Lanka Navy.

2.4 Overall Illustration of Existing Spread sheet based Solution

In Galle Dialogue international conference currently all works are done by using MS Excel spreadsheets. There will be a secretariat for Galle Dialogue conference at Sri Lanka navy headquarters. Head of secretariat is the chair of the conference and there will be sub committees for tasks. Such as registration process, participant information management, organizational information management, hotel reservation management, etc. Sub committees are located in different geo locations and they have to come to the secretariat and collect relevant information from the main spread sheet.

2.5 Overall system graphical view

High level architecture of Galle dialog event management system shows scope of the project and how each components are connected together.

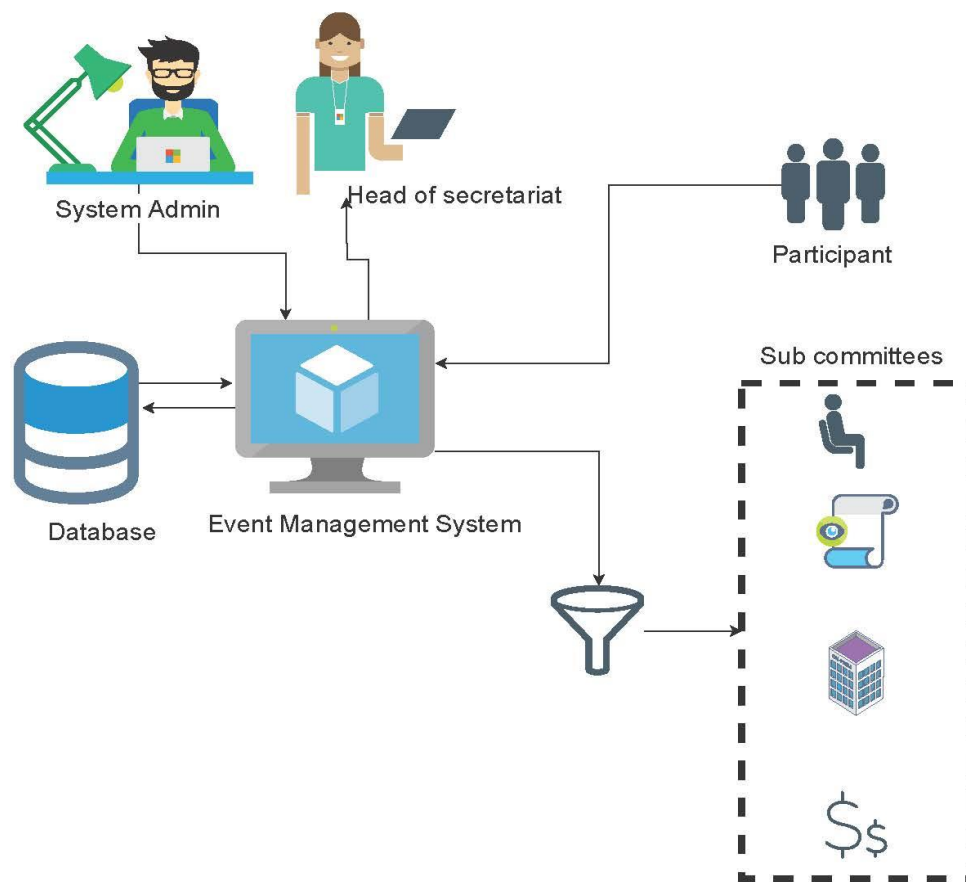


Figure 2.1: High level Architecture of the system

Each component of the system diagram is explained in details below.

System Admin

System Admin is the main coordinator of the system who manages every function of the system. System Admin is able to manage user authentications levels of the system. He will create user groups and assigned privilege needed.

Head of secretariat

Head of secretariat will be the chair of the event and will be able to view all aspects of the events. As well as how the subcommittee work. He can generate reports of each sub committees.

Sub committees

These are the ones who manage participant information of the system. There will be assigned tasks for each different sub-committee such as allocate the hotels, vehicles and representatives for each foreign delegate who is willing to participate in the event. And also he can generate reports of the latest participant list who confirmed the participation to the event. The committee those who are responsible for the papers will call for papers and there are some steps to be done like call, reviewing, feedbacks and correction papers.

Participant

All Participants will be able to register for the event online and notified through email.

Suppliers

Suppliers or service provider will be able to send quotations for the conference via online.

2.6 Use Case Diagram

After making high level diagram the system developer has created use case diagram by understanding features of the system, user roles, user authentication and functionalities of the system. The diagram given in the below as figure 3.3 is represent all the features and functionalities of the event management system for Galle Dialogue international maritime conference for Sri Lanka navy.

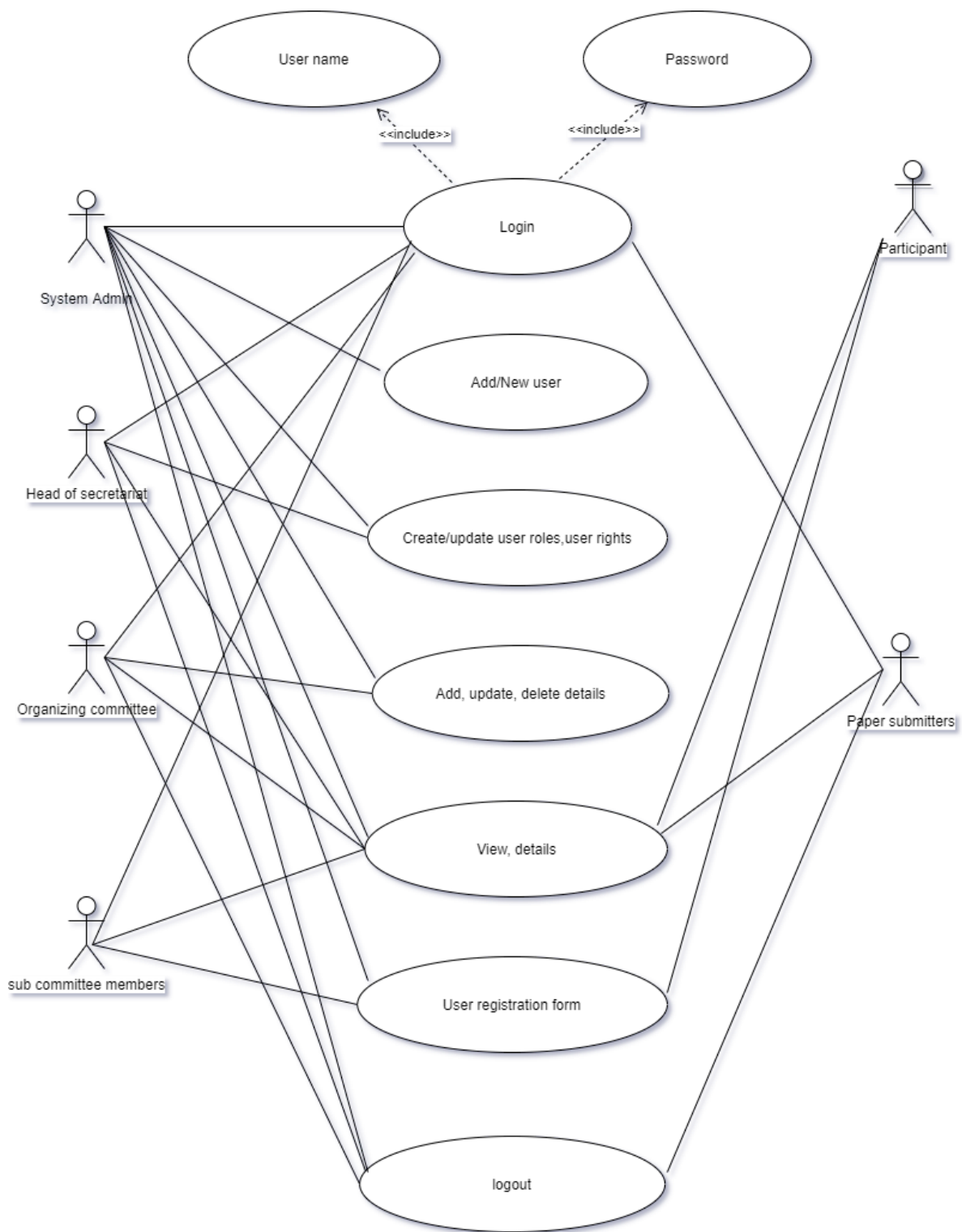


Figure 2.2: Use case diagram of the system

2.7 Existing commercial Systems

Aventri

Aventri was founded by a group of people who spent decades in managing events. Aventri, earlier known as etouches is a cloud-based meeting and event management system to help control various operations in the planning process of events. The company has 1,200 users spanning 35 countries worldwide, with large corporations like control various operations in the life-cycle planning process part of its client mix. This solution includes event registration, collects and customizable reports, Email Marketing, Event Case Studies, Seat Planning, Venue Sourcing, Project Management, and more. [2]

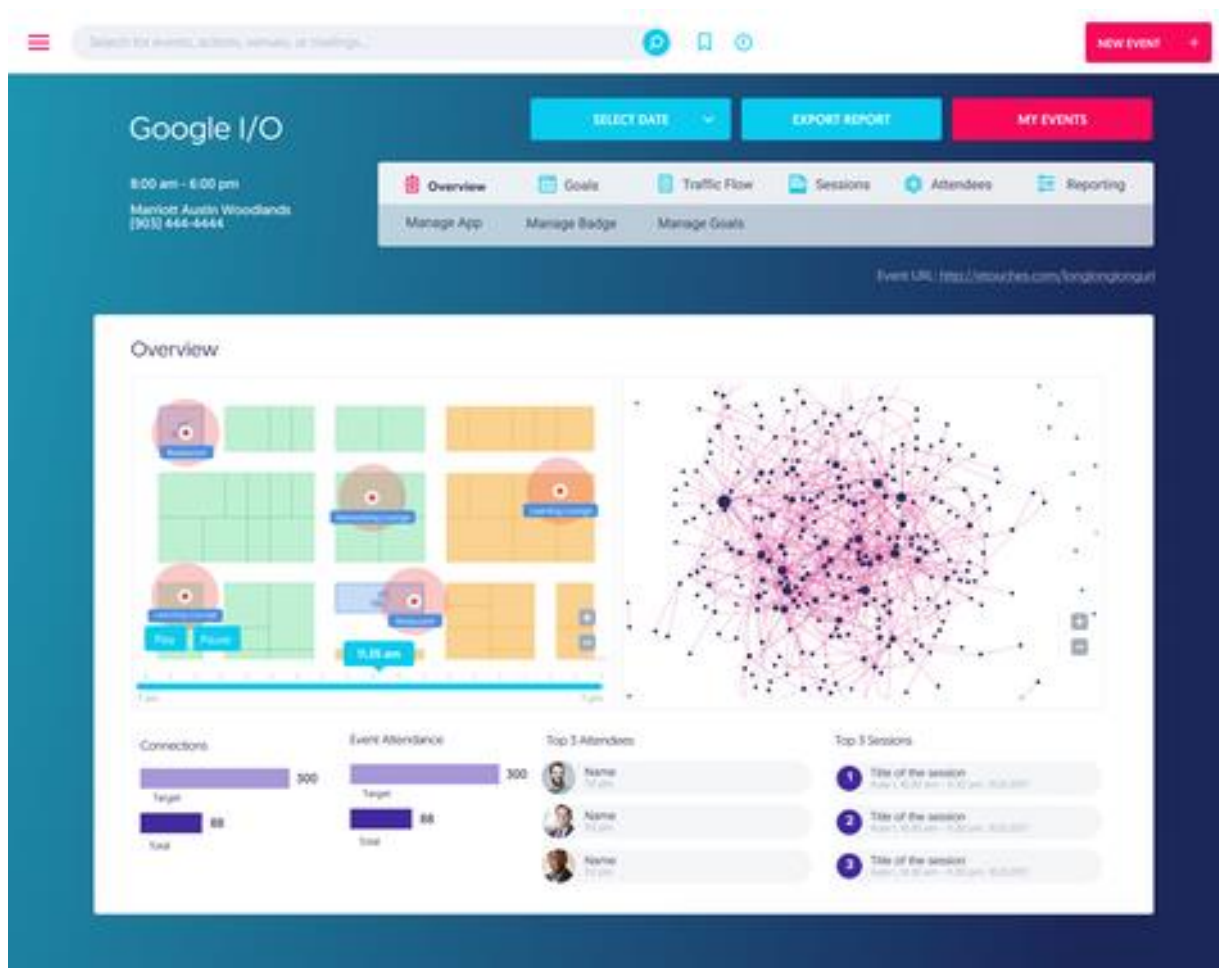


Figure 2.3: screenshot of Avitri software

Bizzabo Software

Bizzabo is an all-in-one solution designed to streamline your event operations using the most innovative platform. This system offers features like event registration and ticketing, website checking, PayPal and credit card integration, contact management, session and theory management, and flexible pricing settings.[3]

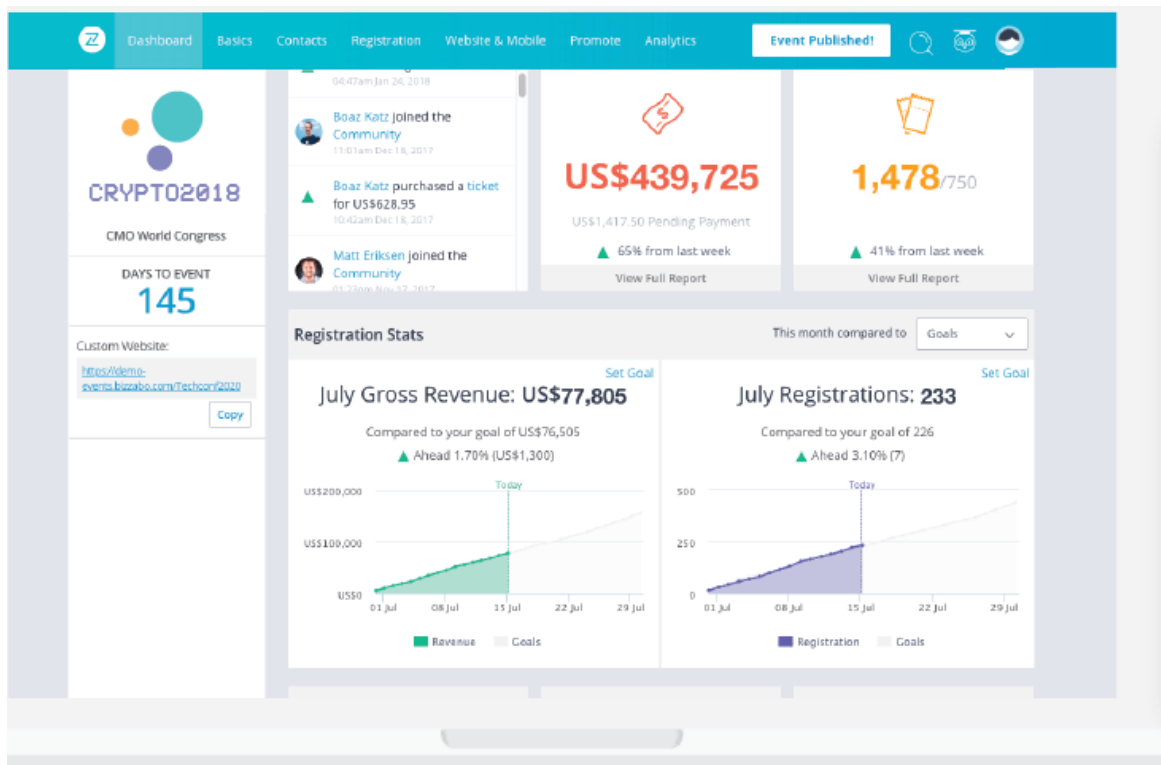


Figure 2.4: screenshot of Bizzabo software

Eventbrite

Eventbrite is a U.S.-based event management and ticketing website. The service allows users to browse, create, and promote local events. This Eventbrite solutions provide functionalities such as creating, tracking, promoting, and analysing. In addition, this solution allows users to set up designs web pages based on themes. This system is more mobile friendly devices such as mobile phones, the iPad, laptop, etc. [4]

EDIT
DESIGN
MANAGE

Event Dashboard

- Payment Options
- Order Options ▼
- Invite & Promote ▼
- Analyze ▼
- Manage Attendees ▼
- Extensions ▼

UNPUBLISH | COPY | CANCEL | DELETE

Event Dashboard

Live!

Your event is up and running and tickets are on sale.

Private Edit

Your event is not listed or searchable.

3 Tickets Sold / 350

1%

Net sales

No sales in the last 30 days

[View all data](#)

Net sales

\$90.00

Tickets sold

3

Page views

0

Invites

0

Current Payout

\$0.00

A check will be mailed to you on Jan 1, 2019.

You're collecting payments with:

Eventbrite Payment Processing [\[edit\]](#)

Not editable after first sale.

[FAQs about Eventbrite Payment Processing](#)

Gross sales

\$97.92

[See all sales channels](#)

Online	\$0.00
Offline	\$97.92

Reserved Seating Summary

Pending/Available	0/347 (0%)
<hr style="border: 1px solid #ccc;"/>	
Sold	3/350 (1%)
<hr style="border: 1px solid #ccc;"/>	

Manage Venue Map

Launch Venue Designer

Figure 2.5: screenshot of Eventbrite software

2.8 Comparative Analysis

The most of the existing systems mention above include only limited features, it only forces on one or two aspects of the Event management process. Existing systems does not give priority for the client's requests. Most of the systems forces on commercial aspect. But when it comes to conference like Galle Dialogue international maritime conference participated by more military persons than civilians, there are special proceeding to be handles. Those aspects cannot be obtained from commercial available software. Since the Propose new event management system is developed specially for this conference it will cover all aspects of Galle Dialogue international maritime conference. Further under mention table 2.1 will elaborate the comparative analysis of proposed EMS against others

	Online Registration	Participant Management	Supplier Details Management	Accommodation/ vehicle allocation and other	User Authentication levels
Proposed Event Management System	Yes	Yes	Yes	Yes	Yes
Etouches	Yes	No	Yes	No	No
Bizzabo	Yes	No	Yes	No	No
Eventbrite	Yes	No	Yes	No	No

Table 2.1: Comparative Analysis

CHAPTER 3

METHODOLOGY

CHAPTER 3 Methodology

3.1 Introduction

In this chapter, the methodology based approach that followed within the development of the system is elaborated clearly consistent with a step wise method. Activities and procedures which were administered in each phase are explained intimately. Aside from that, how important components are behaved within the system are to be mentioned during this chapter. Design diagrams which were wont to enhance the event process is clearly mentioned under this chapter.

3.2 Development methodology

Methodology is a set of steps that are carrying out in software development life cycle (SDLC) and it is a frame work that can be used to structure, plan and control the process of developing an information system in software engineering.

Rapid application Development (RAD) as methodology can be used for Galle dialog event management system for Sri Lanka navy. Prototype methodology is a sub methodology under the RAD that carried out to the proposed system. The main reason for selecting prototype methodology among all other methodologies such as spiral, V model, Waterfall, Lean etc. is based on currently known requirements and go through the design, coding and testing. These phases has not done formally. But client can be feel as it is an actual system. Therefore client will be able to understand the requirements of the desired system.

Prototyping

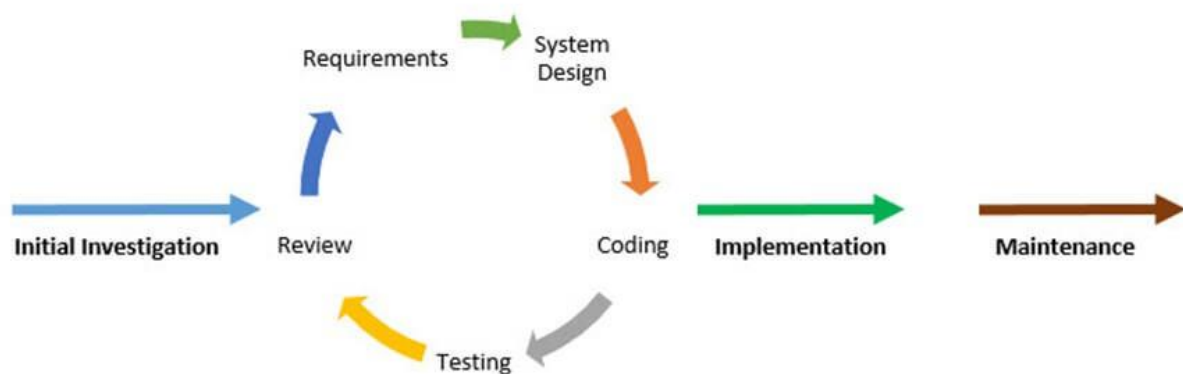


Figure 3.1 :Prototyping methodolog

3.2.1 Advantages of using the prototyping methodology

The main advantages of prototyping methodology is user can involve in the development directly and it helps to find real requirement quickly. This approach helps to users to get better idea about the system.

On the other hand it is not be very costly and it can be reduced the cost of actual product. Because before implementing the actual product, prototyping can be collected real requirements and identify what are the functionalities and changes to be done in the actual product. Therefore it helps to reduce man power and it is very useful to get better understanding of the system those who are develop the actual product.

3.3 Procedures followed

- **Requirement gathering**

Necessary requirement about the system can be collected and analyses in this phase. According to the proposed system, the technological importance of event management and importance of event management in tourism industry have

This phase is about gathering the necessary requirements about the system and analyzes that information to design the system. According to the event management system, this phase researched about events, the importance of event management in tourism industry and the technological importance of event management. After gather and analyze the information requirements for event management system the functionalities of the event management system was defined.

- **Quick design**

After requirement gathering and analyzing, in this phase make the design of the event management system and design the interfaces.

- **Building prototype**

In this phase, proposed system has been implemented according to the above requirement

- **Customer evaluation**

This new system has evaluated by supervisor and instructions given by them. Because there were no customers of the previous stages.

- **Refining prototype.**

After recognizing feedback, weaknesses and improvements, event management system has completed new changes

3.4 Database Design

Below Figure 3.2 shows the ER diagram for database design of the proposed Event Management System. Participant personal details table will hold the data of all participants details apart for their official details which will be stored in Participant official details table.

Registered Suppliers details will be stored in different table separately. For other details such a hotel, vehicle and liaison persons data is also stored different table. All the tables connected with (foreign key) unique DID number which is created by the system when registering.

Separated database tables are used for user authentication level management. System user's username and passwords, user roles of the users and models access to them are manage using these tables.

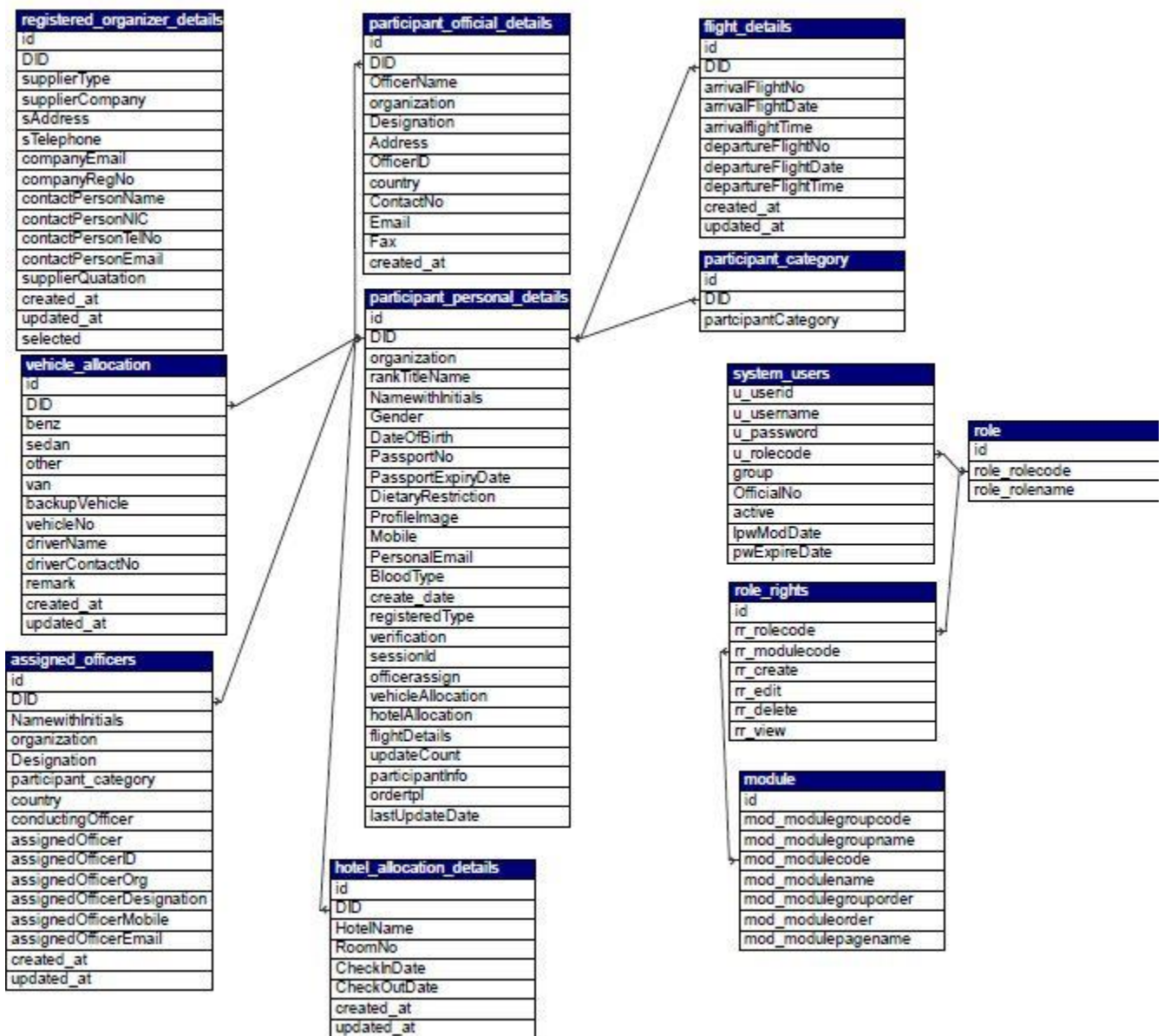


Figure 3.3 : ERD for database of Event Management System

CHAPTER 4

IMPLEMENTATION

CHAPTER 4 Implementation

4.1 Introduction

This chapter will explain how the development of the system is done. It will briefly explained the each functionality of individual component of the EMS for Galle dialogue conference and its usage.

4.2 Approach

The System is divided to different modules to accelerate development process of the system.

- a) Access control Module
- b) Registrations Module
- c) Participant management Module
- d) Suppliers and paper presenters Module

Access control Module

This module is capable of handling the all functionalities related to the system admin of the system. System admin is responsible authority to create, update, edit and delete users to the system and defined user roles and user groups. More over system admin will defined user privileges to the pages of the system according to the user role and group.

Registrations module

This module will handle the registration of participants. In the context of Galle dialogue all most all the participants are invited. Message will be send to invitees with the link to registration form. All participants for the conference need to fill all required details in the form. Email will be send to successful registered participant.

Participant management Module

This module is capable of handling the all functionalities related for the background organizing work related to conference. Data included in the registration form will be used. The head of secretariat and subcommittee members are the users of the module. It will be display as a dashboard and according to the user role relevant pages can be view, update and delete. Below mentioned key functionalities are enabled in the module.

- Participant summary: users can viewed summery report of all participants form different categories and what are event there are participating during the conference.
- Assigned officer (liaison officer): There will be foreign delegations for the conference and some of them will be head of navies hence there is a liaison officer for all foreign delegations. Subcommittee member is allowed to assigned liaison officers.
- ID card Details: Details needed for printing identity card is displayed.
- Hotel allocations : hotel allocation subcommittee member is allow to allocate accommodations for participants
- Vehicle allocations : Vehicle allocation subcommittee member is allow to allocate Vehicle for participants
- Fight details: fight details are displayed.

Suppliers and paper submission Module

This module is capable of handling all the functionalities related to selecting suppliers for the conference and same method is used to selecting papers for the conference with slight different in the process.

Suppliers will send quotations via online form and subcommittee's related for the selecting will evaluated the quotation and selected the best supplier for the good and service. Same process will be followed for selecting papers for the conference only different is some of the papres will resend to the sender for further modification.

4.3 User interface

Under mentioned user interfaces are developed in order to enable key functionalities of the System

Landing page

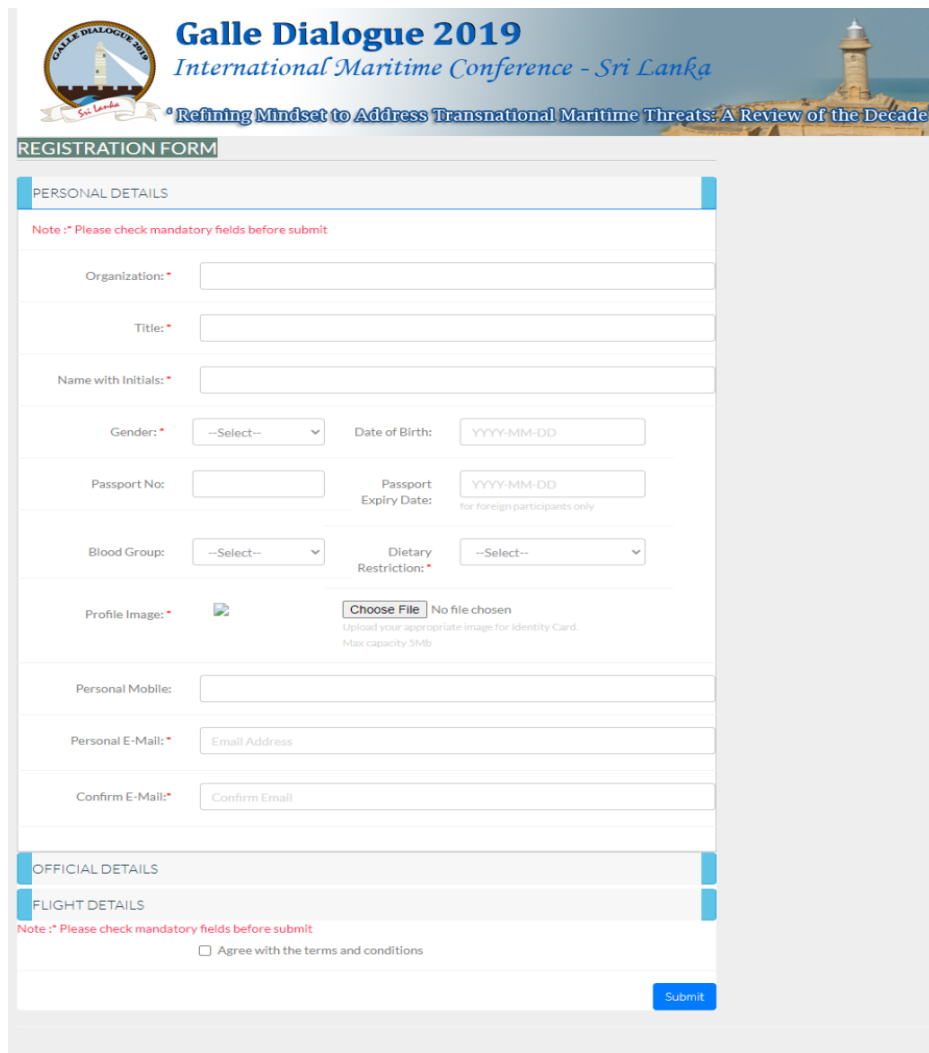
This is the landing page of the system form here user can choose the option he/she want to perform.



Figure 4.1: Landing page

Participant registration form

A participant is able to get registered for the conference via this user interface.



The image shows a web-based registration form for the Galle Dialogue 2019 International Maritime Conference. The header features the conference logo and title: "Galle Dialogue 2019 International Maritime Conference - Sri Lanka" with the theme "Refining Mindset to Address Transnational Maritime Threats: A Review of the Decade". The form is titled "REGISTRATION FORM" and is divided into sections: "PERSONAL DETAILS", "OFFICIAL DETAILS", and "FLIGHT DETAILS".

PERSONAL DETAILS

Note: * Please check mandatory fields before submit

Organization: *

Title: *

Name with Initials: *

Gender: * --Select--

Date of Birth: YYYY-MM-DD

Passport No: *

Passport Expiry Date: YYYY-MM-DD
for foreign participants only

Blood Group: * --Select--

Dietary Restriction: * --Select--

Profile Image: *

No file chosen
Upload your appropriate image for Identity Card.
Max capacity 5Mb

Personal Mobile: *

Personal E-Mail: * Email Address

Confirm E-Mail: * Confirm Email

OFFICIAL DETAILS

FLIGHT DETAILS

Note: * Please check mandatory fields before submit

Agree with the terms and conditions

Figure 4.2: Participant Registration Form

Sing in page

This web page will be used to sing in for different users.



Galle Dialogue
International Maritime Conference - Sri Lanka
Refining Mindset to Address Transnational Maritime Threats: A Review of the Decade

Sign In.

root

Sign In

Figure 4.3: Sing in Page

System Admin page

System admin can provide user permission to pages of the system by giving correct user name and password of system admin.



GALLE DIALOUGE EVENT MANAGEMENT SYSTEM

Password will Expire in 774 days UserName : SuperAdmin group : SuperAdmin Logout

Participant Update Details

Galle Dialogue
International Maritime Conference - Sri Lanka
Refining Mindset to Address Transnational Maritime Threats: A Review of the Decade

Administrator

- User Module
- User Role
- User Role Rights
- Add New Users
- Change Password
- User Group

Organizing Administrator

- Organiser Update Details
- Audio/Video Details
- Org. Vehicle Allocation View
- Org. Hotel Allocation View
- Org. Food and Beverages View
- Org. Decorators

Participant Administrator

- Assign Officers
- Participant Update Details
- View Assigned Officers
- Participant Vehicle Allocation
- Participant Hotel Allocation
- Participant Flight Details
- Participant ID Card Details
- Participant Dietary Plan
- Summary
- Update Details Delete

Figure 4.4 : System Admin page

Create user module screen

Add User Module

User Module Group Code
Ex: ADMIN/001

User Module Group Name
Ex: Administrator

Module Code
Ex: ADMIN/001/1

Module Name
Ex: User Module

Parent Menu Order
Ex: 1

Sub Menu Order
Ex: 2

Module Page Name
Ex: modul.php

[Add Module](#)

Figure 4.5: Create user module screen

Add and View User Roles

Add & View User Role

User Role Code

User Role Name

[Add Role](#)

Module

Show entries Search:

Role code	Role Name	
ADMIN/001	Super Admin	EDIT Copy DELETE
ORGANIZER/001	Organizer	EDIT Copy DELETE
PARTICIPANT/001	Participant	EDIT Copy DELETE

Showing 1 to 3 of 3 entries

Previous [1](#) Next

Figure 4.6: Add and View User Roles

Add role rights screen

Role Rights

Role Code: Participant

Module Code: Org. Hotel Allocation View

Create: Yes No

Edit: Yes No

Delete: Yes No

View: Yes No

Add Role Rights

Figure 4.7: Add role right screen

Add and View New Users

Add New User

Username: Username

UserPassword: User Password

UserRole Code: Select Role

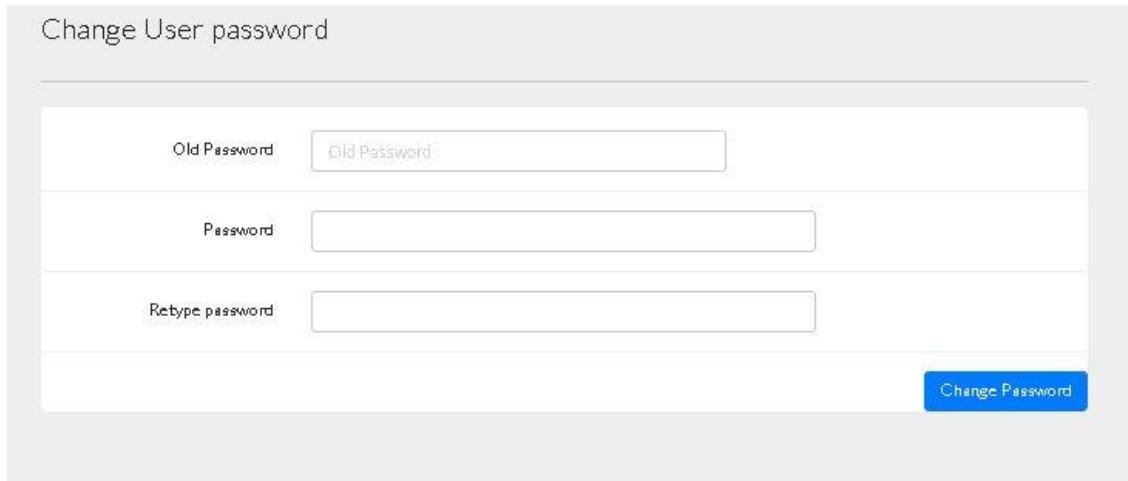
Group: Select Group

Official No.: Official No. Ex. 17937

Add User

Figure 4.8: Add and view new users' screen

Change Password Screen



Change User password

Old Password

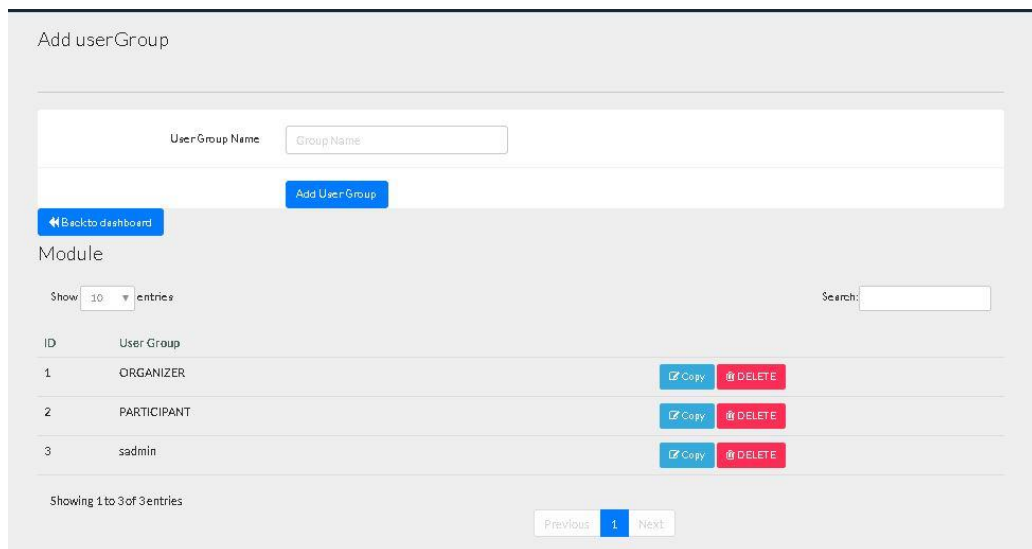
Password

Retype password

[Change Password](#)

Figure 4.9: Change Password Screen

Add and View User Groups page screen



Add userGroup

User-Group Name

[Add User Group](#)

[Back to dashboard](#)

Module

Show entries Search:

ID	User Group	
1	ORGANIZER	Copy DELETE
2	PARTICIPANT	Copy DELETE
3	sadmin	Copy DELETE

Showing 1 to 3 of 3 entries

[Previous](#) [1](#) [Next](#)

Figure 4.10: Add and View User Groups page screen

Participant dash board- update detail page

Participant Update Details

Assign Officers: All Participants (2), Local Participants (1), Foreign Participants (1)

Vehicle Allocation: All

Hotel Allocation

Flight Details

ID Card Details: Show 10 entries

Profile Images	Designation	Name with Initials	Country	All Details	Participant Info (Empty: 0)	Assigned Officer (Empty: 0)	Vehicle Allocation (Empty: 1)	Hotel Allocation (Empty: 1)	Flight Details (Empty: 1)
1	Software Engineer	Anal Perera	Bahamas (+1242)	View	Edit	Edit	Add	Add	Add
2	Chief Executive Officer of ABC Company	Nick Martin	Sri Lanka (+94)	View	Edit	Edit	Add	Add	Add

Showing 1 to 2 of 2 entries

Activate Windows
Go to Settings to activate Windows.

Figure 4.11:Participant dash board- update detail page

Add detail of assign officers

ASSIGNED OFFICERS DETAILS

Assigned Officers Name : *

Organization : *

Designation/ Position: *

Official ID: *

Country: *

Contact Number: *
+94 77 0000000 / +94 71 0000000 / +94 11 0000000

Email Address: *
abcd@gmail.com

Profile Image: No file chosen
Upload your appropriate image for Identity Card.
[Please ensure service personnel in uniform].
Max capacity 5Mb

Figure 4.12: Add detail of assign officers

Add officers to participant

ASSIGNED OFFICERS

Name with Initials: * d

Designation: * d

Participant Category: * WVIP/VIP

Country: * Bahamas (+1242)

Officer in Attend : nnnmmn

Assign Officer: * ABC Perera - Senior Executive - ABC3454

Edit

Figure 4.13: Add officers to participant

Participant information update

REGISTRATION FORM

PARTICIPANT INFO

Name with Initials: * d

Designation: * d

Participant Category: * ... Select ...

Country of Origin: * Albania +355

Participation : Local Foreign

Confirmation Status

Invited: Yes No

Invitation Confirmed: Yes No

Confirmed: Yes No

Participant Session

Day 1 Day 2 Official Reception

Remarks: fstretertertertghdovovovovvchjh v

Update

Figure 4.14: Participant information update

Summery page

The screenshot shows the 'Summery page' of the GALLE DIALOUGE EVENT MANAGEMENT SYSTEM. The page header includes the system name, user information (SuperAdmin), and a password expiration notice. The left sidebar contains a navigation menu. The main content area displays a summary of participants, including counts for All Participants (2), Local Participants (1), and Foreign Participants (1). It also shows a table of invited and confirmed participants, and a list of ministries and departments such as Ministry of Defense, Ministry of Ports and Shipping, Ministry of Foreign Affairs, Sri Lanka Army, Sri Lanka Air Force, Sri Lanka Navy, Other Military Personal, Ministry of Law & Order, Ministry of Finance and Planning, and Ministry of Defence and Urban Development.

Figure 4.15 : Summery page

Participant vehicle allocation Page

The screenshot shows the 'Participant vehicle allocation page' with the following details:

- VEHICLE ALLOCATION DETAILS**
- Name with Initials:
- Designation:
- Country:
- Vehicle Allocation**
 - Car Allocation: BENZ SEDAN OTHER
 - Van Allocation:
 - Backup Vehicle: Yes No
- Vehicle No:
- Name of Driver:
- Driver Contact No:
- Remarks:
-

Figure 4.16: Participant vehicle allocation page

Identity card detail page

Participant Update Details

ID CARD DETAILS

Assign Officers

Vehicle Allocation

Hotel Allocation

Flight Details

ID Card Details

Dietry Plan

Summary

Organizer Update Details

Audio / Video

Vehicle Allocation

Hotel Allocation

Other Caterers

Decorators

Showing 1 to 2 of 2 entries

Designation	Name with Initials	Country	Participant Category	Blood Type	Profile Image
Chief Executive Officer of ABC Company	Nick Martin	Sri Lanka (+94)	Ministry of Defense - Representatives	A+	
Software Engineer	Anil Perera	Bahamas (+1242)	Ministry of Defense - Representatives	O-	

Showing 1 to 2 of 2 entries

Previous 1 Next

Export ID Card Details

Activate Windows
Go to Settings to activate Windows.

Figure 4.17: Identity card detail page

Hotel Allocation Page

Participant Update Details

HOTEL ALLOCATION LIST

Assign Officers

Vehicle Allocation

Hotel Allocation

Flight Details

ID Card Details

Dietry Plan

Summary

Organizer Update Details

Audio / Video

Vehicle Allocation

Hotel Allocation

Other Caterers

Decorators

Showing 1 to 1 of 1 entries

Designation	Name with Initials	Hotel Name	Room No.	In Date.	Out Date.	Edit
Software Engineer	Anil Perera	vv	855	2017-05-03	2017-06-04	View

Showing 1 to 1 of 1 entries

Previous 1 Next

Export Hotel Allocation Details

Activate Windows
Go to Settings to activate Windows.

Figure 4.18: Hotel Allocation Page

Suppliers Dashboard

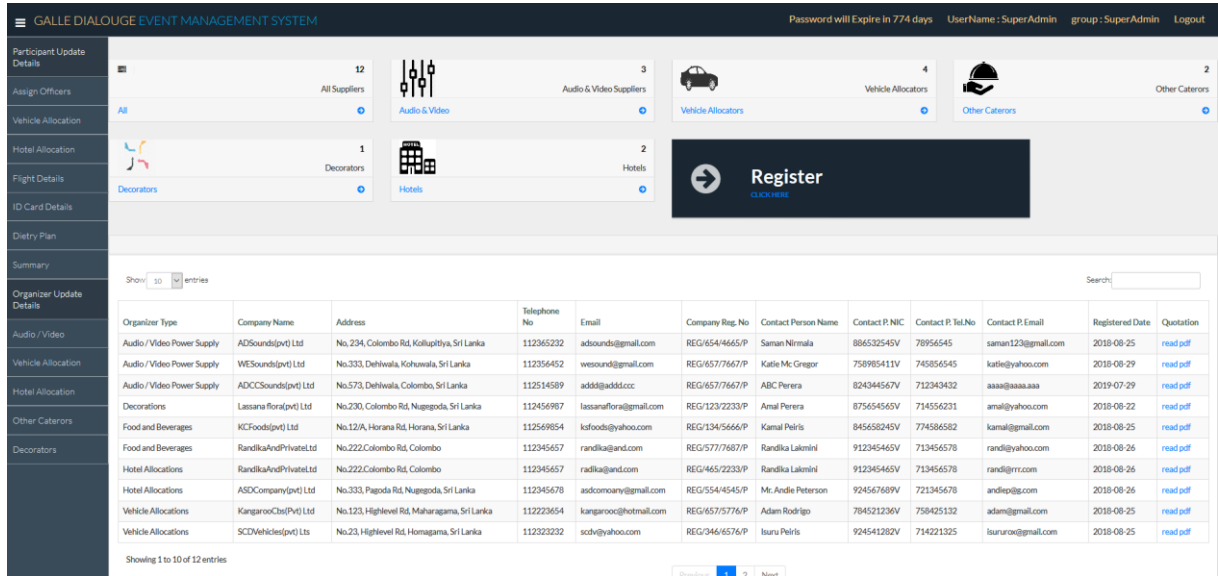


Figure 4.19: Suppliers Dashboard

Supply Details view

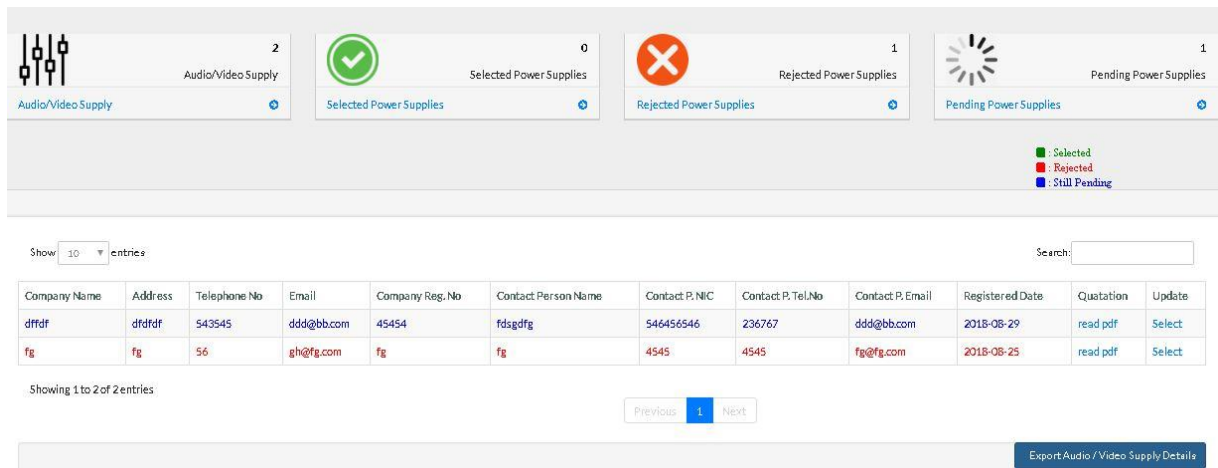


Figure 4.20: Supply Details view

Participant Details View Dashboard

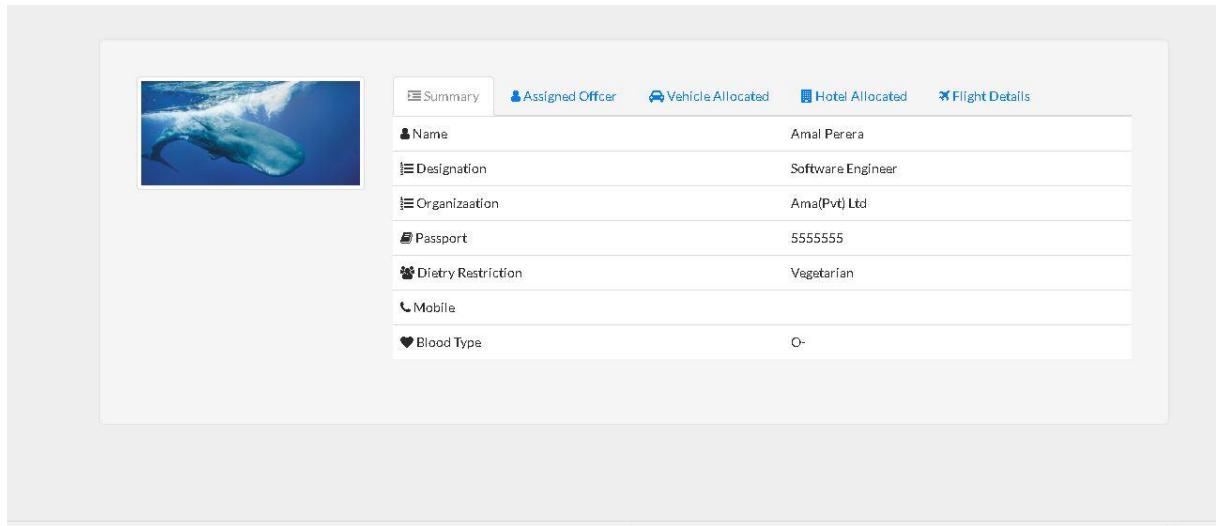


Figure 4.21: Participant Details View Dashboard

4.4 Tools/Technologies Used

Client layer – Any web browser [HTML]

Server Layer – Apache Web Server 2.4

Database Layer – MySQL

Programming Languages- PHP, HTML5, CSS3 and Java Script

Design Tools – Adobe XD and bootstrap framework

CHAPTER 5

TESTING AND EVALUATION

CHAPTER 5 Testing and Evaluation

5.1 Introduction

System should be tested in order to make sure whether it facilitates all the requirements of the system. After testing evaluation of the overall project is an essential element of a successful project implementation. This chapter will explain the testing procedures and the User evaluation results.

5.2 Testing

Testing is the process of validating and verifying the system. It is required to have a test plan to test the system for any flaws and to verify the requirements of the client are fulfilled. System undergoes different testing cycles to achieve hundred percent accuracy of reliability.

5.2.1 Smoke testing

Smoke Testing is done to verify that high priority functionalities are working as expected in the system. Test cases used to perform smoke testing against the System is attached as Appendices in the end of the document.

5.2.2 Compatibility Testing

The purpose of Compatibility testing is to evaluate how well software performs in a particular browser, Operating Systems, hardware or software.

Compatibility Test Scenarios:

- Test the website in different browsers (IE, Firefox, Chrome, Safari and Opera).
- Test the HTML version being used is compatible with appropriate browser versions.
- Test the images display correctly in different browsers.
- Test the fonts are usable in different browsers.
- Test the java script code is usable in different browsers.

5.3 Evaluation

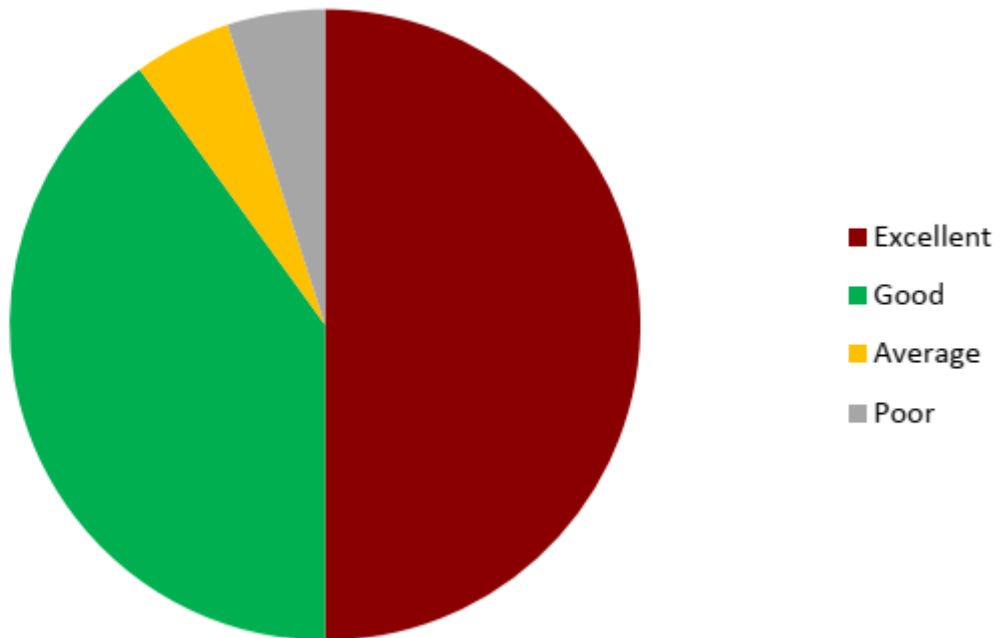
It is guaranteed that web based EMS for Galle dialog will be a best solution for all the burning problems of Sri Lanka Navy context of organizing the conference. It import for a system get user acceptability of the system with friendly attracting user interface, effective navigation, colors used and Fonts to the preferences of the audience. A user evaluation is done after completing the EMS using a user evaluation form (included in the Appendices). Below mentioned results are identified through the user evaluation.

Evaluation is done based on four different categories.

1. Load Time
2. Appearance
3. Functionality
4. Overall

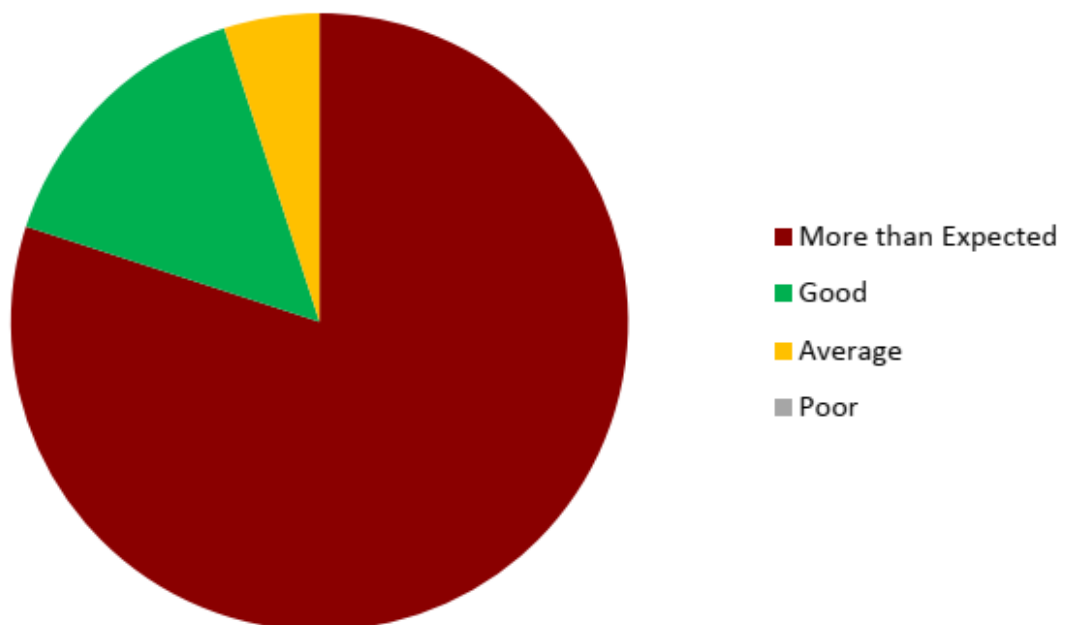
Load Time

More than half of the users mention that web site is load without an issue on time. But there was an issue for few who used Sri Lanka navy network were the one had Average loading speed. This was compared to their internet connection bandwidth.



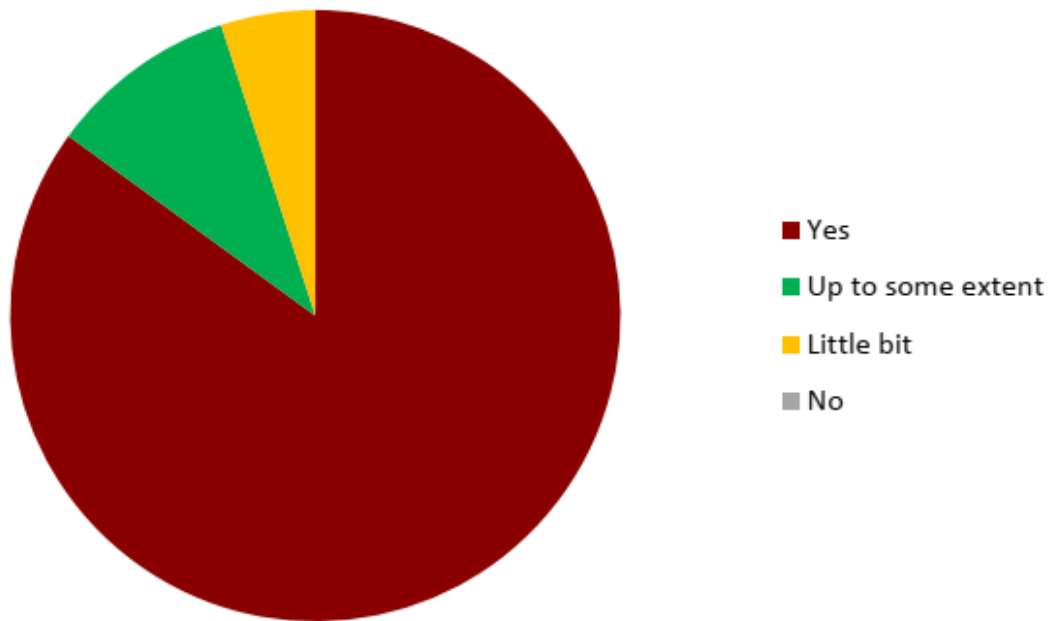
Appearance

All most all the users are satisfied about the way the web application looks to the end user.

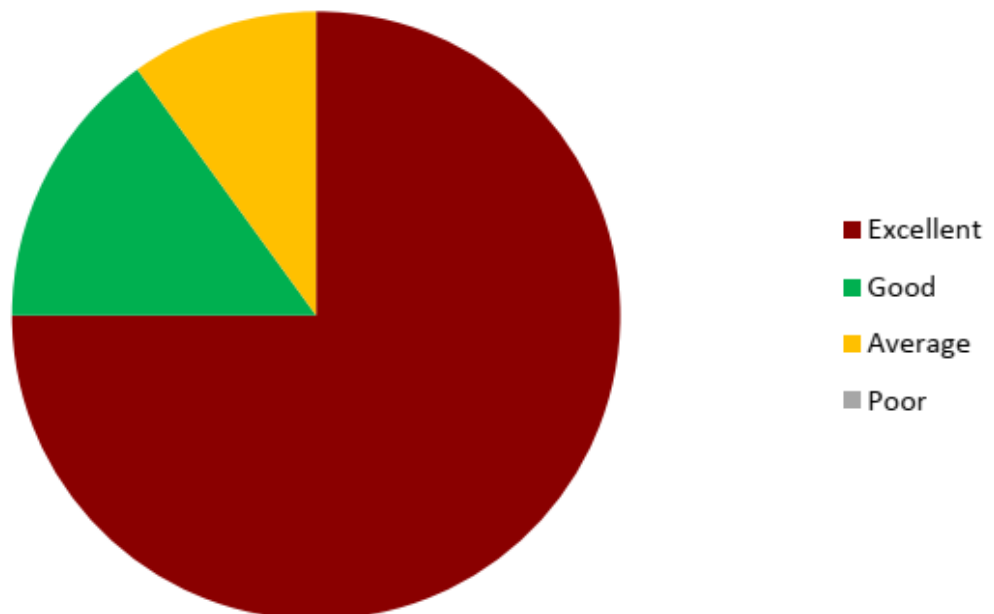


Functionality

It is observed that many users have been able to browse the site without an issue and get the job done easily.



Overall



CHAPTER 6

CONCLUSION AND FUTURE WORK

CHAPTER 6 Conclusion & Future Work

This chapter will conclude the dissertation with a critical evaluation of the limitations or the lesson learned during the project and suggestions for any future work. The evaluation should include a critical discussion and assessment of results of project.

6.1 Lessons Learnt and challenges

Developing a web based system for a one of the main military force in Sri Lanka like Sri Lanka Navy is not an easy task. There are many challenges during the development phase like adapting to a web based system with there all rules and traditions to be followed and change management of them to fit for a computerized system.

The biggest challenge during this project was unexpected COVID 19 pandemic situation. In context of the Sri Lanka, most effected group of peoples are the Sri Lanka Navy personal. It is about more than 850 patients. The have to postpone the conference to next year. Not only that contacting the users of the system was impossible at one time. Failing to manage the time might result in failing the entire project. Somehow project was completed with much difficult to match the timeline. Evaluation of the system is the most difficult part since availability of the all system users was very difficult with the pandemic.

6.2 Further Improvements

The web based event management system for Galle dialogue international conference of Sri Lanka Navy will be a huge investment for the organizers of the event. As a team, all shareholders of the system should work together to obtain the maximum benefit out of the system. This will definitely save a lot of time and effort of the organizers.

For the time being this system developed as a web application. Although the system is mobile friendly via responsive design of the website in future this will be expected to develop as a mobile application which can be accessed by mobile phones. Mobile phones have become a key device of each individual in day to day life. It is possible to provide more effective service to end users by implementing it as a mobile application.

Currently this application is developed for the betterment of the Sri Lanka Navy. But this can be customized and improve as a framework for any event of this kind. Presently the other two brother forces Sri Lanka Army and Sri Lanka Air Force also conduct conferences like Galle Dialogue this will be an ideal solution for them too.

References

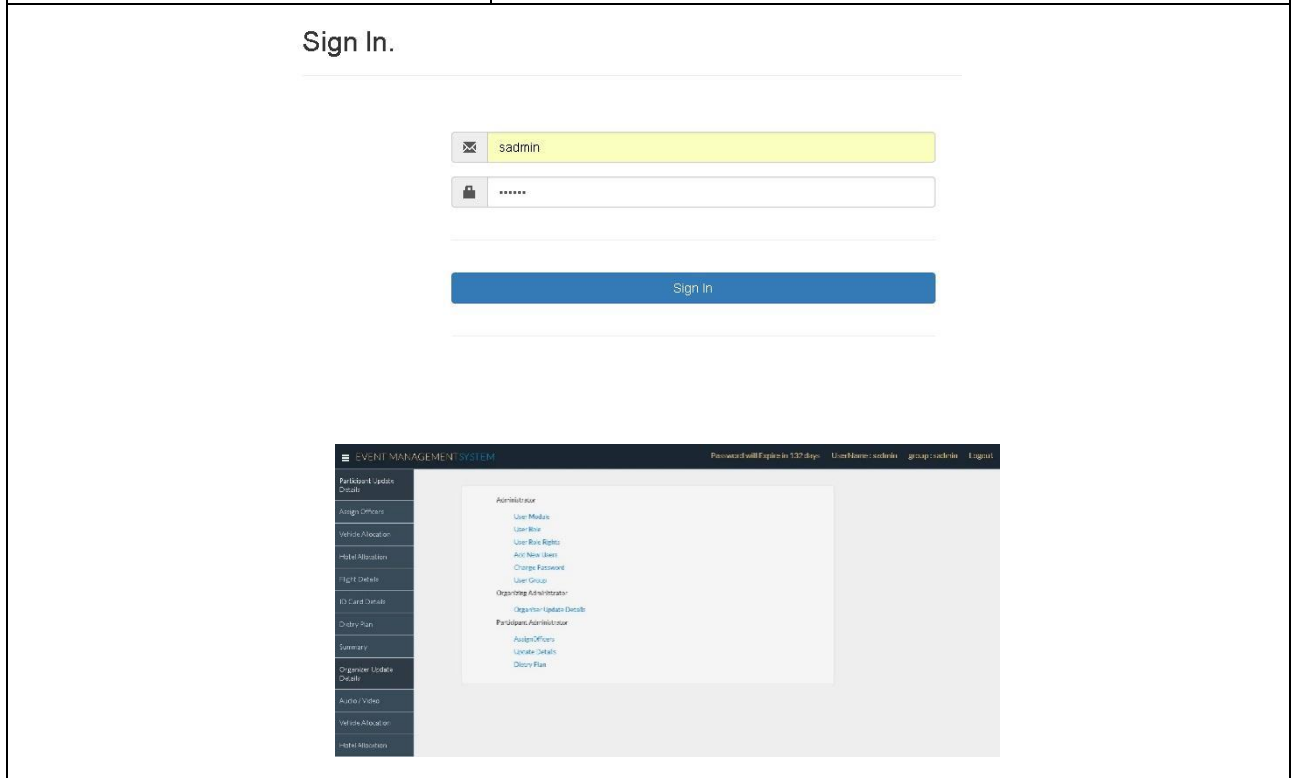
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- [3] (2018) EVENT MARKETING 2018: BENCHMARKS AND TRENDS [Online].
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- [4] (2019, Dec) Eventbrite.com. [Online].
Available at: <https://www.eventbrite.com>

Appendices

Test Cases and Results

Under mentioned test cases are used to perform testing of the web Based Event Management System for Galle Dialogue international conference of Sri Lanka Navy.

Test Case ID	001
Test Case Name	User Login with Valid Data
Steps to be followed	<ol style="list-style-type: none"> 1. Provide valid username 2. Provide valid password 3. Click login button
Test Data	Username = "sadmin" Password = "sadmin"
Expected Result	Redirect to the dashboard successfully
Pass/ Fail	Pass



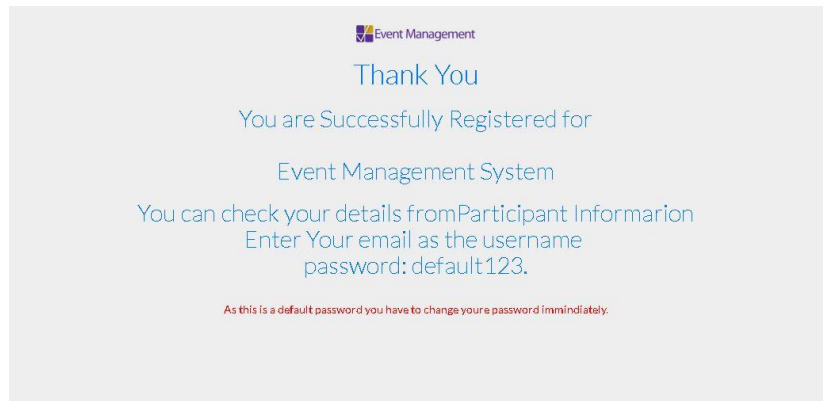
Test Case for user login with valid data

Test Case ID	002
Test Case Name	User Login with invalid Data
Steps to be followed	<ol style="list-style-type: none"> 1. Provide invalid username 2. Provide valid password 3. Click login button
Test Data	Username = "ssadmin" Password = "sadmin"
Expected Result	A message will be displayed saying "Entered an incorrect username or incorrect password"
Pass/ Fail	Pass

The image contains two screenshots of a web application's sign-in interface. The top screenshot shows a 'Sign In.' form with a username field containing 'ssadmin' and a password field with masked characters. A blue 'Sign In' button is visible below the fields. The bottom screenshot shows the same 'Sign In.' form, but with a light blue error message box at the top that reads 'Entered an incorrect username or incorrect password.' with a close button (X). The username field is empty, and the password field contains masked characters. A blue 'Sign In' button is also present at the bottom of this form.

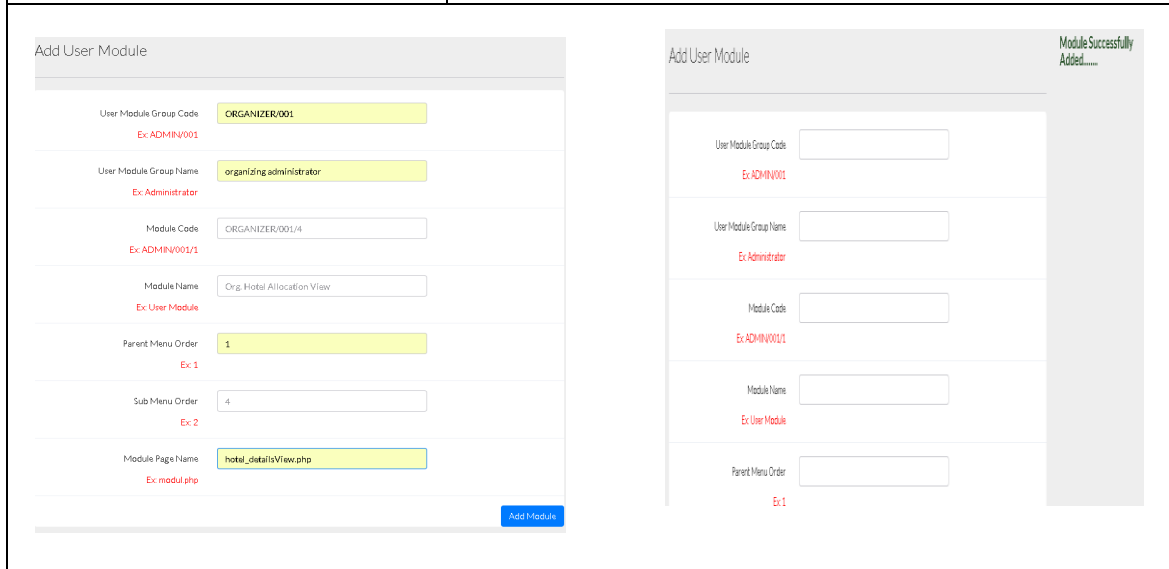
Test Case for user login with same data

Test Case ID	003
Test Case Name	Participant Registration
Steps to be followed	<ol style="list-style-type: none"> 1. Provide necessary information for the all relevant fields such as Personal Details, Official Details, Flight Details. 2. Click Submit button
Test Data	<p>Organization = “ABC Company (Pvt) LTD”</p> <p>Title = “Software Engineer”</p> <p>Name with Initials = “MS Madara”</p> <p>Email = madaramuthu89@gmail.com</p> <p>Mobile No = 0714009132</p> <p>And all other fields</p>
Expected Result	An email will be sent to the participant. If the email was sent successfully, a message will be show in a separate page.
Pass / Fail	Pass



Test Case for participant registration

Test Case ID	004
Test Case Name	Add User Module
Steps to be followed	<ol style="list-style-type: none"> 1. Provide necessary information for the all relevant fields 2. Click Submit button
Test Data	<p>User Module Group Code = ORGANIZER/001</p> <p>User Module Group Name = Organizing Administrator</p> <p>Module Code = ORGANIZER/001/4</p> <p>Module Name = Org. Hotel Allocation View</p> <p>Parent Menu Order = 1 , Sub Menu Order = 4</p> <p>Module Page Name = hotel_detailsView.php</p>
Expected Result	A message will be displayed from the sidebar in the page saying “Module Successfully Added” and inserted data will be emptied.
Pass / Fail	Pass



Test Case for add user module

Test Case ID	005
Test Case Name	Add User Module with Same data
Steps to be followed	<ol style="list-style-type: none"> 1. Provide same information for the all relevant fields 2. Click Submit button
Test Data	<p>User Module Group Code = ORGANIZER/001</p> <p>User Module Group Name = Organizing Administrator</p> <p>Module Code = ORGANIZER/001/4</p> <p>Module Name = Org. Hotel Allocation View</p> <p>Parent Menu Order = 1 , Sub Menu Order = 4</p> <p>Module Page Name = hotel_detailsView.php</p>
Expected Result	A error message will be displayed from the sidebar in the page saying “Duplicate Entry” with the user module group code and module code. Empty the inserted data
Pass / Fail	Pass

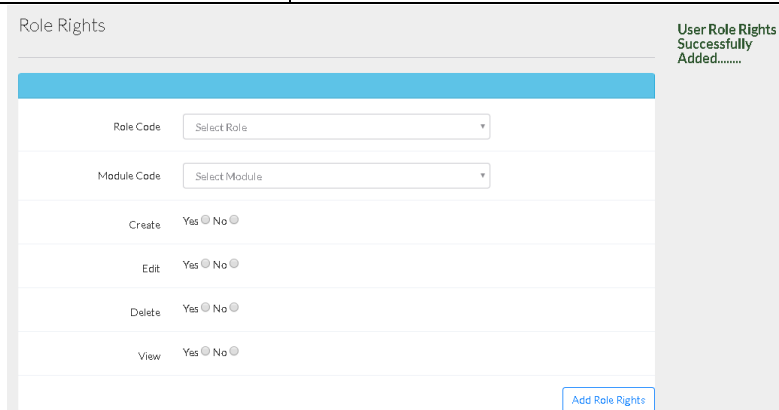
The screenshot shows a web form titled "Add User Module" with the following fields and examples:

- User Module Group Code: (Ex: ADMIN/001)
- User Module Group Name: (Ex: Administrator)
- Module Code: (Ex: ADMIN/001/1)
- Module Name: (Ex: User Module)
- Parent Menu Order: (Ex: 1)

An error message is displayed on the right side of the form: "Error: Duplicate entry 'ORGANIZER/001-ORGANIZER/001/4' for key 'PRIMARY'" in red text.

Test Case for add user module with same data

Test Case ID	006
Test Case Name	Insert User Role Rights
Steps to be followed	<ol style="list-style-type: none"> 1. Select Role Code 2. Select Module Code 3. Select Yes or No from Create, Edit, Delete and View Radio Buttons 4. Click Add Role Rights Button
Test Data	<p>Role Code = Participant</p> <p>Module Code = Org. Hotel Allocation View</p> <p>Create = Yes</p> <p>Edit = Yes</p> <p>Delete = Yes</p> <p>View = Yes</p>
Expected Result	A message will be displayed from the sidebar in the page saying “User Role Rights Successfully Added” and inserted data will be emptied
Pass / Fail	Pass



Test Case for insert user role rights

Test Case ID	007
Test Case Name	View Participant Details
Steps to be followed	<ol style="list-style-type: none"> 1. Login to the system with valid username and password 2. Click Participant Update Details
Test Data	Username = "sadmin" Password = "sadmin"
Expected Result	A table will be displayed with the details of participants. And local and foreign participant count will be displayed separately. If any details doesn't added to each participant, the columns that have to update details will be edit as "Add" and it will be displayed in red color.
Pass / Fail	Pass

The screenshot displays the 'EVENT MANAGEMENT SYSTEM' interface. At the top, it shows the user's session information: 'Password will Expire in 132 days', 'UserName: sadmin', 'group: sadmin', and a 'Logout' link. The main navigation menu on the left includes options like 'Participant Update Details', 'Assign Officers', 'Vehicle Allocation', 'Hotel Allocation', 'Flight Details', 'ID Card Details', 'Dietry Plan', 'Summary', 'Organizer Update Details', 'Audio / Video', 'Other Caterers', and 'Decorators'. The main content area shows a summary of participants: 'All Participants: 2', 'Local Participants: 1', and 'Foreign Participants: 1'. A 'Register' button is visible on the right. Below this, there is a table with columns for Profile Images, Designation, Name with Initials, Country, All Details, Participant Info, Assigned Officer, Vehicle Allocation, Hotel Allocation, and Flight Details. The table contains two entries: one for a participant from Bahamas and another from Sri Lanka. The 'Assigned Officer' column for the Sri Lanka entry shows 'Add' in red text. At the bottom of the table, it indicates 'Showing 1 to 2 of 2 entries' with 'Previous' and 'Next' navigation buttons.

Test Case for View Participant Details

Test Case ID	008
Test Case Name	Edit Participant Information
Steps to be followed	1. Click the Edit button in Participant Info columns on Update Details table
Test Data	Insert details for Participant Category, Participation, Confirmation Status, Participant Session and Remarks fields
Expected Result	Redirect to Participant Update Details Page
Pass / Fail	Pass

The screenshot displays a web form titled "REGISTRATION FORM" with a sub-section "PARTICIPANT INFO". The form contains the following elements:

- Name with Initials:** Text input field containing "d".
- Designation:** Text input field containing "d".
- Participant Category:** Dropdown menu showing "-- Select --".
- Country of Origin:** Dropdown menu showing "Albania +355".
- Participation:** Radio buttons for "Local" and "Foreign", with "Foreign" selected.
- Confirmation Status:** Three groups of radio buttons:
 - Invited: "Yes" (selected) and "No".
 - Invitation Confirmed: "Yes" (selected) and "No".
 - Confirmed: "Yes" (selected) and "No".
- Participant Session:** Checkboxes for "Day 1" (checked), "Day 2" (checked), and "Official Reception" (unchecked).
- Remarks:** Text area containing "fstretetretertghdcvcvcvcvcvchjh".
- Update:** A blue button at the bottom right of the form.

Test Case for Participant information Edit

Test Case ID	009
Test Case Name	Update Vehicle Allocation
Steps to be followed	1. Click the Edit button in Vehicle Allocation columns on Update Details table
Test Data	Insert details for all the fields in application
Expected Result	Redirect to Participant Update Details Page
Pass / Fail	Pass

VEHICLE ALLOCATION DETAILS

Name with Initials: *

Designation: *

Country: *

Vehicle Allocation

Car Allocation: BENZ SEDAN OTHER

Van Allocation:

Backup Vehicle: Yes No

Vehicle No:

Name of Driver:

Driver Contact No:

Remarks:

Test Case for Update Vehicle Allocation

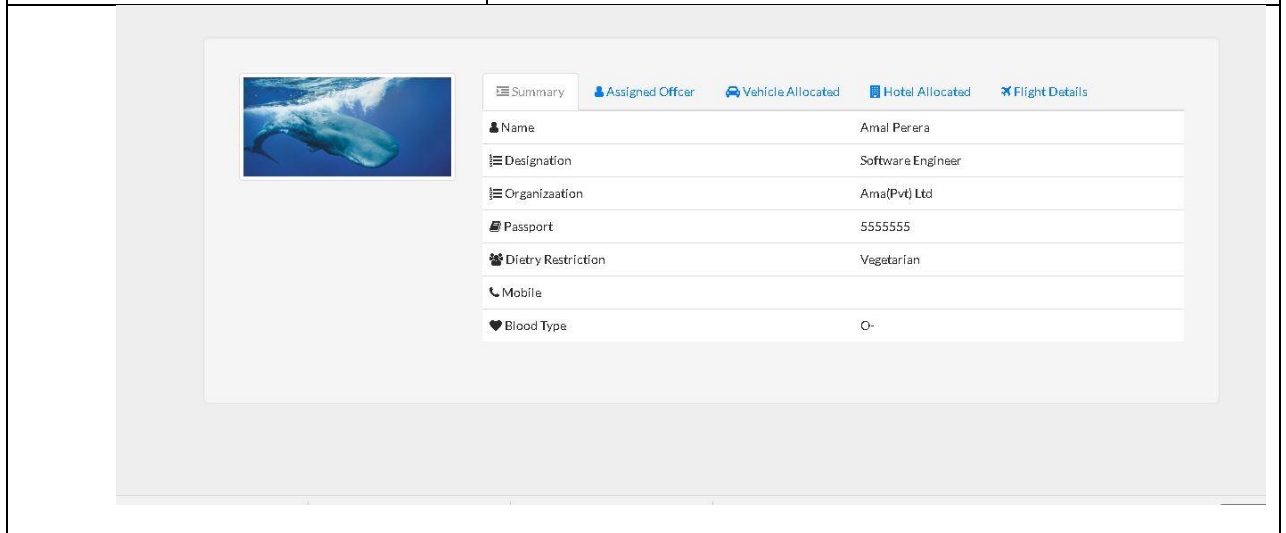
Test Case ID	010
Test Case Name	Update Vehicle Allocation
Steps to be followed	<ol style="list-style-type: none"> 1. Login to the system with valid username and password 2. Click Audio/Video tab
Test Data	Username = "sadmin" Password = "sadmin"
Expected Result	A table will be displayed with the details of Audio / Video Supplier. User can view quotations using "Quotations" tab. And Select or Reject the quotations using Select link on Update Column. Selected Supplier will be displayed in green color and the rejected suppliers will be displayed in red color. Pending suppliers will be displayed in blue color.
Pass / Fail	Pass

The screenshot displays a dashboard for 'Audio/Video Supply' with four summary cards: 'Audio/Video Supply' (2), 'Selected Power Supplies' (0), 'Rejected Power Supplies' (1), and 'Pending Power Supplies' (1). A legend indicates that green represents 'Selected', red represents 'Rejected', and blue represents 'Still Pending'. Below the cards is a table with columns for Company Name, Address, Telephone No, Email, Company Reg. No, Contact Person Name, Contact P. NIC, Contact P. Tel. No, Contact P. Email, Registered Date, Quotation, and Update. The table contains two entries. The first entry is highlighted in green, and the second is highlighted in red. Navigation buttons for 'Previous', '1', and 'Next' are visible, along with an 'Export Audio / Video Supply Details' button.

Company Name	Address	Telephone No	Email	Company Reg. No	Contact Person Name	Contact P. NIC	Contact P. Tel. No	Contact P. Email	Registered Date	Quotation	Update
dfdfdf	dfdfdf	543545	ddd@bb.com	45454	fdsgdfg	546456546	236767	ddd@bb.com	2018-08-29	read pdf	Select
fg	fg	56	gh@fg.com	fg	fg	4545	4545	fg@fg.com	2018-08-25	read pdf	Select

Test Case for view Organizer Details

Test Case ID	011
Test Case Name	Update Vehicle Allocation
Steps to be followed	1. Login to the system with valid username and password
Test Data	Username = "d@xxx.com" Password = "123"
Expected Result	A tab interface will be displayed with participant image, and the assigned facilities of them
Pass / Fail	Pass



Participant dashboard for view details

Web Site Evaluation Form

Load Time

1. Does this system load time seem reasonable compared to your internet connection speed?

- a) Excellent b) Good c) Average d) Poor

Appearance

2. Is this page layout and use of color, fonts and pictures consistent throughout the system?

- a) More than expected b) satisfied c) Average d) Poor

3. Does the design appropriate for the purpose of this system and for the pre-planned audience?

- a) Excellent b) Good c) Average d) Poor

4. Is this page layout clear and balanced?

- a) More than expected b) satisfied c) Average d) Poor

5. Are your eyes conducted to the content or major page elements?

- a) Yes b) Up to some extent c) sometimes d) Never

6. Are the color blend pleasing and suitable for this system purpose?

- a) Yes b) Up to some extent c) Little bit d) No

7. Is the text clearly readable?

- a) Yes b) Up to some extent c) Little bit d) No

8. Is major content (Ex-navigation, site and page identification) able to seen without scrolling?

- a) Yes of course b) Up to some extent c) somewhat complicated d) No

9. Is copyright, privacy and contact details comfortably located?

- a) Yes b) bit hard to locate c) hard to locate d) No

10. Is the purpose of this system instantly clear?

- a) Yes of course b) Up to some extent c) somewhat complicated d) No

Functionality

11. Will you be able to browse this system without a problem?

- a) Yes of course b) Up to some extent c) somewhat complicated d) No

12. Does this system supply enough assistant to get what you want done?

- b) Yes b) Up to some extent c) Little bit d) No

Overall

13. How would you rate the event management system?

- a) Excellent b) Good c) Average d) Poor

14. Is there anything you want to highlight regarding this system?