Event Management System

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In serenity of prerequisite for the gradation of BS(CS) degree.

Certificate

We hereby declare that this project and work, neither as a whole nor as a part has been copied out from any source. It is further declared that we have conducted this project work and have accomplished this thesis entirely on the basis of our personal efforts and under sincere guidance of our supervisor Ma'am Iram Jamshaid. If any part of this project is proved to be copied out from any source or found to be a reproduction of the same, we shall stand by the consequences.

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(Head of Department) (Supervisor)

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(Internal Examiner) (External Examiner)

Dedication

Dedicated to our families, respected teachers and friends, who always had been a source of inspiration and motivation for us. Especially to our mothers, who taught usto be hard worker in every field of life.

Acknowledgements

We are very thankful to all of our friends, their adviceand cooperation that ultimately results to the successfulcompletion of this project. We wouldlike to thank our friends for their effective words of motivation which helped us keep our eyes on the goal.

We are also very grateful toMa'am Iram Jamshaidfor not only supporting us at every step of the project but also paying a fair attention to our problems.

Ma'am Iram Jamshaid'scooperative approach and open mindedness towards our choice of project motivated us to successfully see the project through in the given timeline. Without her cooperation, valuable advice and constructive criticism we might not have been able to finish the project.

Abstract

Event Management System is an application (web-based and android) to manage the events at one platform. We provide a user friendly interface and interactive platform to ease the customers to manage weddings, corporate events, birthday parties and catering services.

Nowadays, Event Management System has become a highly repaying business in which a lot of companies and organizations are investing at a high level.

Customers will first register on live portal as well as through the android app. EMS will automatically manage these events and admin is informed through notifications as well as email alerts.

Customers can generate events; add their reviews and updates, while also being able to search for the desired events. They have a choice of payment through PAYPAL as well as by hand.

When a customer books any event, after the approval by manager, system sends a reservation confirmation email to the customer on their email id.

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1. Introduction

1.1- Project Background

Event Management System (EMS)is one of the basic needs of our modern world. It is very difficult to arrange events as completely different preparations are required like catering, décor, booking of venue. EMS is a solution to this problem.

EMS is:

- A comprehensive platform for events
- Online customized booking of orders (hall, meal, decor, dancing floor etc.)
- Online chat with admin
- A user friendly interface

1.2- Problem Statement

Organizing a successful event, no matter of what magnitude is an extensive task. To make this task less cumbersome, EMS has been introduced as software which helps the customer manage his/her events right to the very last detail. The Manager cannot only upload and organize picture galleries but also receive feedback via comments of the viewers.

1.3- Project Objectives

Some objectives of the proposed system are:

- An android app with outstanding GUI
- Online event management

1.4- Project Scope

The project scope entails the development of a website with a user friendly interface that allows the customers to visit the website and search for their choice of venue, hall, meal décor etc., however only the registered users will be allowed to take advantage of the booking mechanism.EMS has a bright future ahead of it as it is one of those rare systems that bring a connoisseur of event management techniques under one system.

2. Literature Review

Events can refer to leisure activities as well as a lucrativebusiness possibility. Informal events bring people together for the fulfillment of leisure purposes and having a good time. On the other hand they also help boost the economy by the provision of jobs and revenue generation. Regardless of the size of the events they require high degree of planning, a range of skills and a lot of energy (Hillary Commission for Sports, 1997). According to Anderson, Wesley (2000), when using event companies get the possibilities to have their own right to the consumer during the duration of event

Following are the flaws in the existing systems:

Online presence of user to event was impossible. The main issue is how manager will manage the no of Customers for user events. How manager will manage booking online for any type of event.

If large no of Customers are desired to be targeted on his/her website so obviously he has to promote his/her event on a large scale and doing it manually is a very big deal.

Also booking of any event manually is a big issue for a business man and some other peoples who are very busy in his/her social life, it is wastage of time and money also managing an event manually. Event Management System is such a platform from where the eventscan be managed properly.Manager is able to organize, upload picture galleries, can get the comments from Customers regarding his/her services, can add event, edit event etc.

Event management system provides online chat with Customer/visitors;it is a Web Base and Android base App.

3. RequirementSpecifications

3.1- Existing System

There are a lot of Event management systems available in which different companies and organizations have advanced to high revenues. All these systems have their own strengths and weaknesses and have different functions. Some of those systems proposed are not easy to find required/detailed information.

3.2- Proposed System

In this project we have tried to cover the problems which the existing systems have either not touched or have not been able to implement properly. This project contains fifteen modules that work to give optimal performance.

This system provides the users to get all the resources under one head rather than the time consuming activity of research and selection. It is a process of organizing professional and focused events. The system allows the only registered customers to login and new users are allowed to register on the application developed.

3.3- Requirement Specifications

Requirement specification is a software engineering task that bridges the gap between system level requirements engineering and software design.

- User should be able to register himself.
- Manager should be able to edit/manage event.
- Manger should be able to add photo gallery.
- Manager should be able to add package.
- Manager should be able to create a package
- Manager should be able to send email to the customer
- Manager should be able to chat online to the user.
- User should get to know about the changes through notification.
- User should be able to ask query via mail or online chat.
- User should be able to create event
- Manager should be able to generate bill.
- Customer should be able to download bill.
- Manager should be able to view/update and delete user details.

Manager should be able to view/update booking details.

3.4- Functional Requirements:

Functional requirements specify specific behavior of the system that what a system should do. Functional requirements define functionality of a software system or its component. Before defining the functional requirements ofEMS we would like to define the users

3.4-1. Admin

Admin consist of all the requirement of EMS. The employees will be distinguished by their designations. The designations will be used as a user name while logging in into the system.

3.4-2. Visitor

Anyone who visit the website.

3.4-3. Customer

A person who registers himself/herself to the EMS.

The core modules of the system are:

- Register to website
- Manage event
- Send notification
- Add photo gallery
- Edit event
- Email to Customer
- Create packages
- Create event
- Chat online.
- Add rating
- Generate the bill
- Manage venues.
- Change password
- View/update delete details
- View/update booking details

All the modules will perform different functions. The functions are as follows.

3.4-4. Register To Website

To enter into this site, the user registers him/her first. The requirements for registration would be:customer first name, last name, user name, email id etc.

.

3.4-5. Manage Event

Manager can manage corporate events which can be either generic or customized like weddings, birthday parties, seminars, conferences, concerts etc.

3.4-5. Send Notification

Manager can send notification to the customer for the confirmation of booking of their event, any change /update in event, related to charges or packages (meal, decor, venue, hall) etc.

3.4-6. Add Photo Gallery

Manager can add photo gallery.

3.4-7. Edit Event

Manager can edit event or event packages. Customer is also allowed to edit and update his/her profile partially. He can only update certain fields phone no, email id etc.

3.4-8. Email to Customer

Manager can email to Customer for confirmation of booking

3.4-9. Create Packages

Manager can create the event packages (meal, decor, food, venue and hall etc.), according to the customer's requirement.

3.4-10. Create Event

Manager can create the corporate events. Customer can fill the form and create a new event, which will go to the admin as an unread notification for approval.

3.4-11. Chat Online

Manager can chat online with the customers, therefore he can inform to the customers about any change/update in the event or event packages also guide them about their queries related to the event.

3.4-12. Add Rating

Manager can add rating option for Customer to rate the website. Customer gives rate according to their likes and dislikes

3.4-13. Generate The Bill

Manager can generate bill for customers when customer books an event. 50% of the total amount has to be paid by the customer in advance so that their event can be booked and organized according to their requirements.

3.4-14. Manage Venues

Manager can manage venues. Manager can add or delete venues from the website.

3.4-15. Change Password

Manager can allow Customer to change password.

3.4-16. View/Update Delete Details

Manager can view/update and delete the user detail and fully functional calendar capable of display events of any month from any year. The calendar is very user friendly and along with displaying the events it also allows creating, updating and deleting events.

3.4-17. View/Update Booking details

Manager can view/update booking details.

3.5- Nonfunctional Requirements:

Nonfunctional requirements are:

- Reliability
- Security
- Performance Requirements
- Responsive Website

3.5-1. Reliability

Reliability is one of the most important factors of any software. The system should not show abnormal behavior either by terminating or unexpected shut down.

3.5-2. Security

Like reliability, security is also one of the most important factors of any software. For security reasons, multiple checks are placed in the system like:

Users logs are maintained

System unexpected errors are monitored

3.5-3. Performance Requirements

The system should be able to perform according to the design and requirements of the user.

3.5-4. Responsive Website

The website should be responsive.

3.6- Use Case Diagram

Following diagram is the Use Case diagram

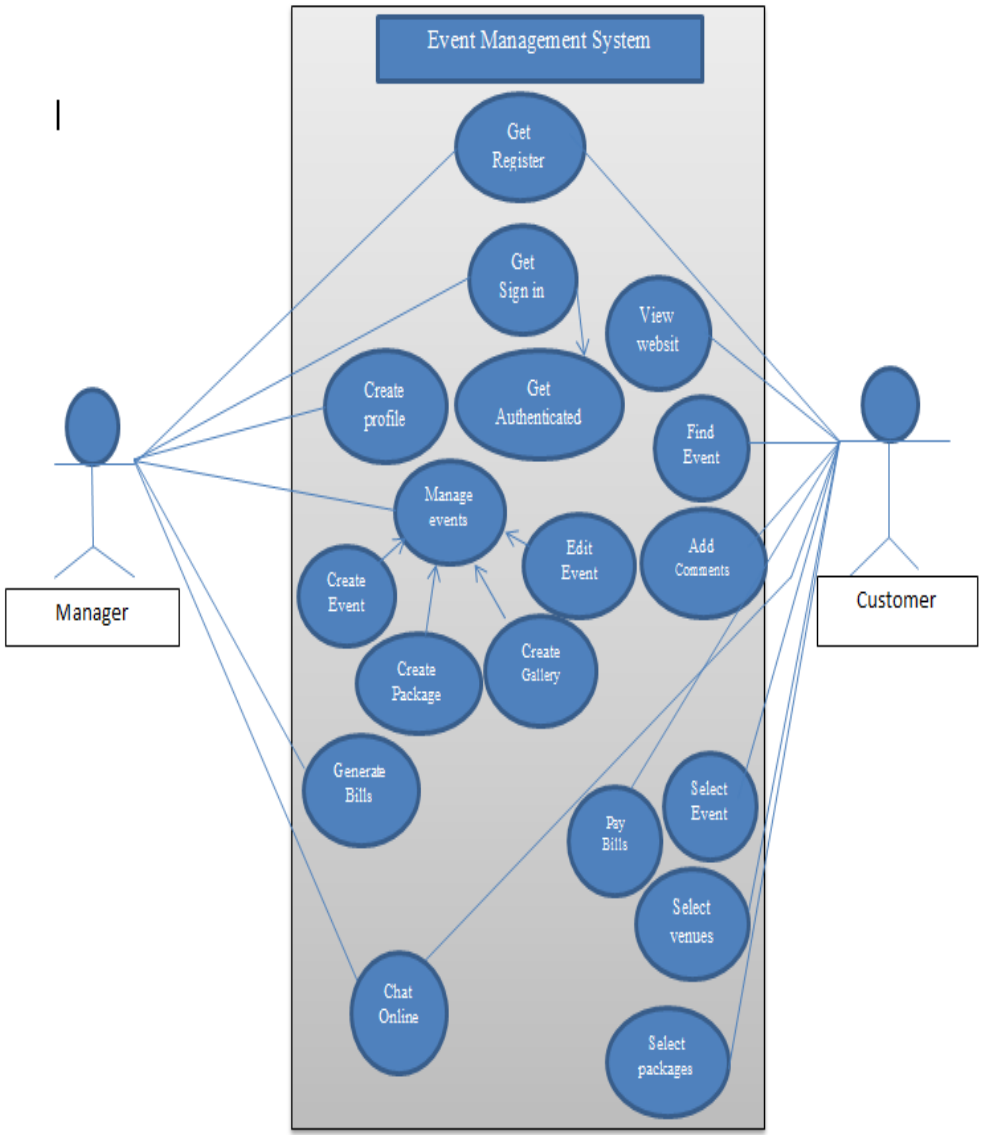


Figure 1: Use Case Diagram

3.6-1. Descriptive Form of Use Cases:

Title	Sign in	
Actors	User	
Description	This is the Use Case used for signing into the website	
Main Success Scenario	**Step**	**Action**
	1.	User enters in to the sign in form
	2.	User enters required sign in information (email-id and password) and clicks on submit button
	3.	User has successfully sign in to the EMS
	4.	And reaches to its specific work area.
Special Requirements	Customer must provide email-id and password to sign in to the system.	
Pre-conditions	Interface is there ,enter the email-id and password	
Post-conditions	Customer signs in successfully.	
User interface	Sign in	
Business Rules	Users email-id and password should be authenticated for the website Users are the authorized members of website.	

Table 1: This is the use case table for sign in

Title	Update profile	
Actors	User	
Main Success Scenario	**Step**	**Action**
	1.	User enters the required information (first name, last name, email-id , phone number)
	2.	Then clicks on the submit button to update profile
	3.	EMS will take the information and save it in the database
	4.	EMS will response by displaying the message that the profile is updated
Pre-conditions	Interface is there, update profile is requested by the user.	
Post-conditions	User updates the profile successfully.	
User interface	Update profile	

Table 2:Use case table for Update Profile

Title	Manage events	
Actors	Manager	
Description	Use Case for managing events.	
Main Success Scenario	**Step**	**Action**
	1.	Manager will manage events
	2.	Manager can upload picture gallery, edit the event, and create packages for customer.
Alternate flows	Step	Action
	1.	Manager will create event
	2.	Manager will create package
	3.	Manager will create gallery
	4.	Manager will edit event
Special Requirements	Manager has the right to either approved or reject the customer's request	
Pre-conditions	Interface is there , manage the events requested by the customer	
Post-conditions	Manager manages the event successfully	
User interface	Manage event	
Business Rules	Manager is the authenticated person.	

Table 3: Use case table for Manage Event

Title	Generate Bill	
Actors	Manager	
Description	This is the Use Case used to generate bills for the customer	
Main Success Scenario	**Step**	**Action**
	1.	Manager will generate bill
	2.	System will generate bill according to the selected event.
Pre-conditions	Interface is there, generate bill	
Post-conditions	Bills are generated successfully	
User interface	Generate Bill	
Business Rules	Generated bill should be according to the EMS policies.	

Table 4: Use case table for generate bill.

Title	Create event	
Actors	Customer	
Description	This is the Use Case used for create an event.	
Main Success Scenario	**Step**	**Action**
	1.	Customer will create an event by filling create event form which will be approved by the manager
	2.	System will create an event chosen by the customer successfully and save his/her information in database
	3.	
Special Requirements	Ideal venue requested by the customer should be within the Islamabad city	
Pre-conditions	Interface is there to select the desired event	
Post-conditions	Customer Creates the event successfully	
User interface	Create event	

Table 5: Use case table for Create Event

Title	View website	
Actors	Visitors	
Description	Use Case to view the website	
Main Success Scenario	**Step**	**Action**
	1.	Visitors can view the website s
	2.	Website can be viewed by the visitors successfully
Special Requirements	Anyone can view the website	
Pre-conditions	Visitor will see the interface of website	
Post-conditions	Visitor visits the website successfully	
User interface	View website	

Table 6: Use case table for view website

Title	Add comments	
Actors	Customer	
Description	This is the Use Case used to add the comments	
Main Success Scenario	**Step**	**Action**
	1.	Customer comments on the website
	2.	System will show the comments added by the customer to the website.
Special Requirements	Viewers can add the comments to the EMS.	
Pre-conditions	Interface is there, customer can add comments	
Post-conditions	Comments are added successfully.	
User interface	Add comments.	

Table 7: Use case table for Add comments

4. System Design

System Design is the initial step in the development phase for any engineered system. Actually it is a set of multiple techniques and principles apply for the purpose of defining a device, a process or a system in sufficient detail to permit its physical realization. Design is a goal-oriented decision making activity. The goal of designer is to create a model or representation of an entity that will later be built. The process by which the model is developed combines institution and judgment based on experience in building similar entities, a set of principles or heuristics that guide the way in which a model evolves and a process of iteration that ultimately leads to a final design representation. The software design is the process through which requirements are translated into a representation of software.

4.1- System Architecture

The proposed system has different modules.

- Register to website
- Manage event
- Send notification
- Add photo gallery
- Edit event
- Email to Customer
- Create packages
- Create event
- Chat online.
- Add rating
- Generate the bill
- Manage venues.
- Change password
- View/update delete details
- View/update booking details

This website is a user friendly interface that allows the viewer's to visit the website and search for their choice of venue, Hall, meal decor etc. However only the registered users will be allowed to take advantage of the booking mechanism EMS is one of those rare systems that bring a connoisseur of event management techniques under one system.

4.1-1. High Level Design

Conceptual View

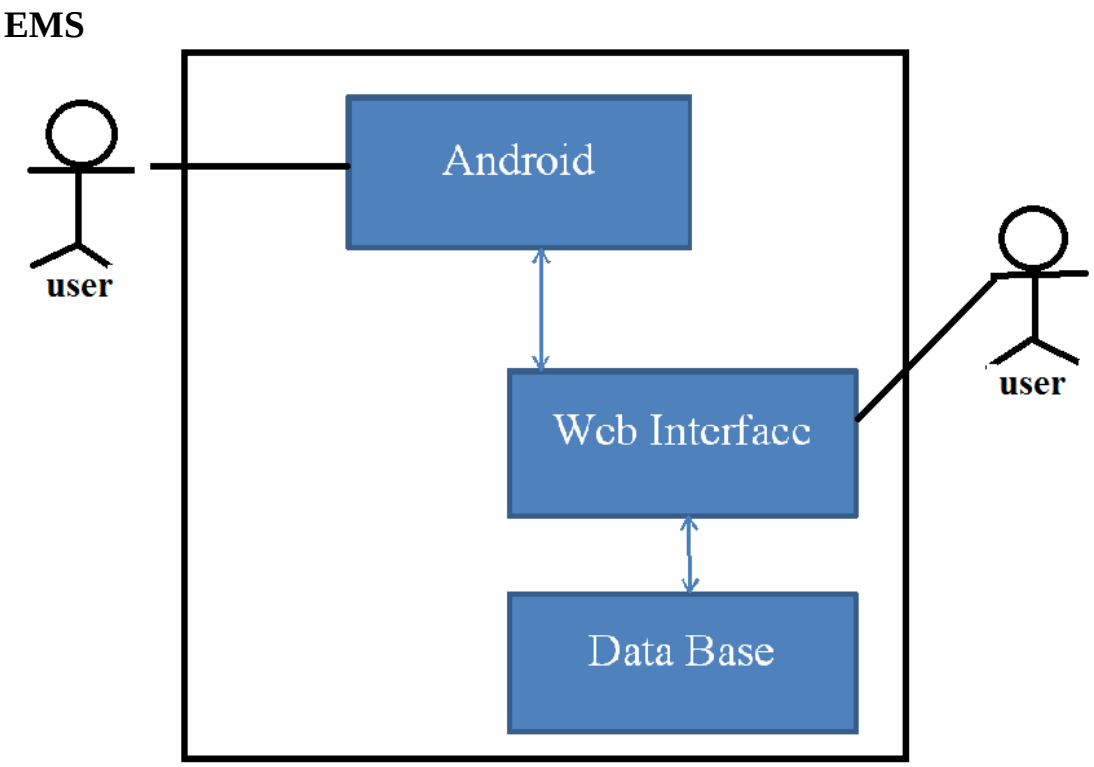


Figure 2: Conceptual View

Data Flow Diagram

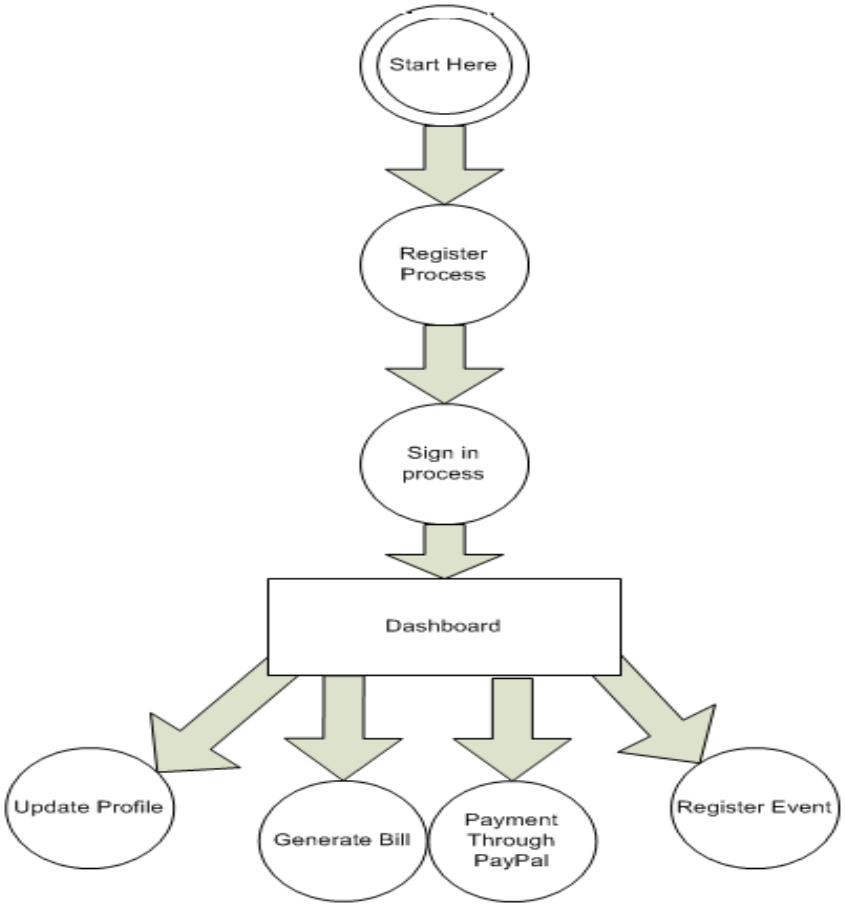


Figure 3: Data Flow Diagram

4.2- Design Constraints

As EMS is an interactive system it is built in accordance with the user requirements and it is based on generic event management policies. So all the business constraints are implemented in the design.

We did not have to face any specific hardware and software constraints because we are developing our own product and we have developed it on JDK (Java development Kit), Eclipse IDE, PHP.

4.3- Design Methodology

Object oriented methodology is used, UML diagrams are used for representing system's various perspectives.

4.3-1. Class Diagram

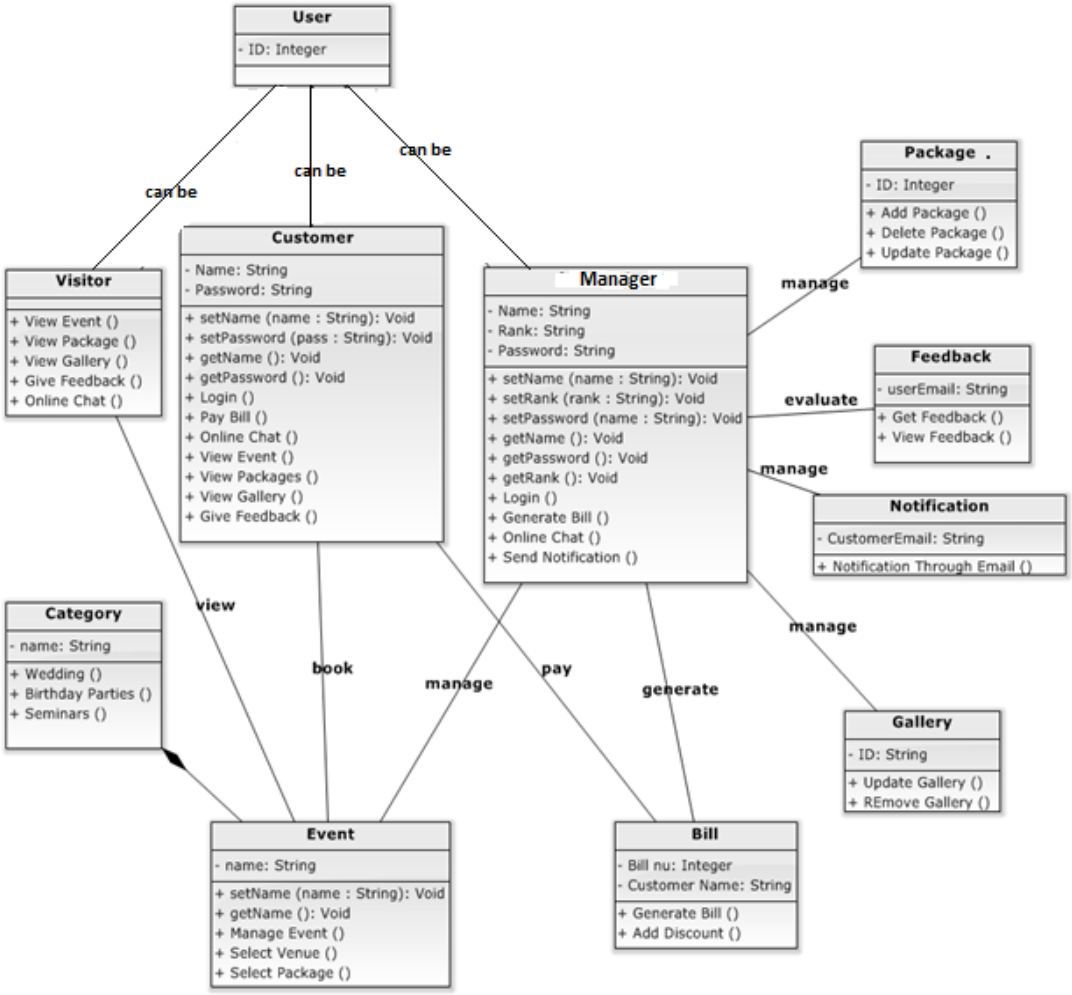


Figure 4: Conceptual and logical

4.3-2. Sequence Diagrams

4.3-2.1. Get Registered

Customer should register himself. If the user is authenticated only then he will sign in.

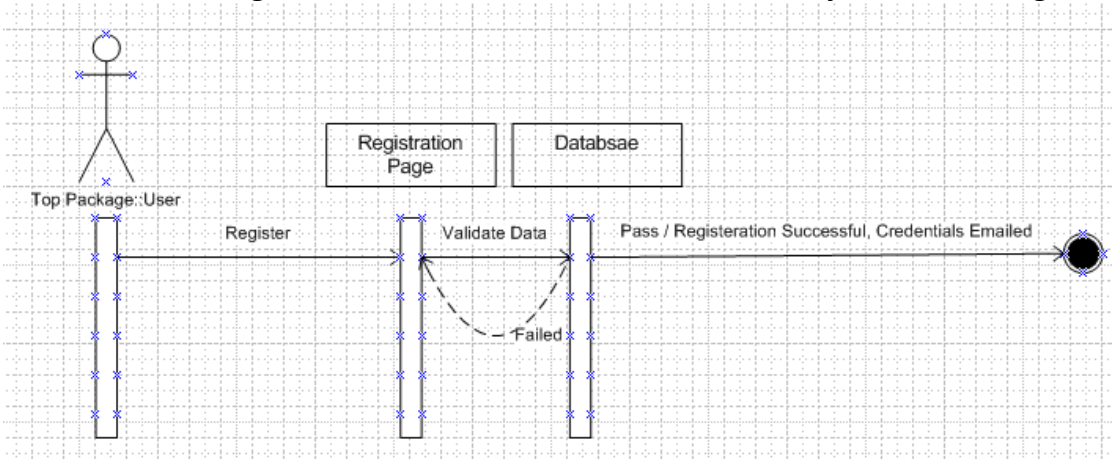


Figure 5: Get Register

4.3-2.2. Login

To login, user will enter username and password. If credentials are valid,user will be directed to the dashboard.

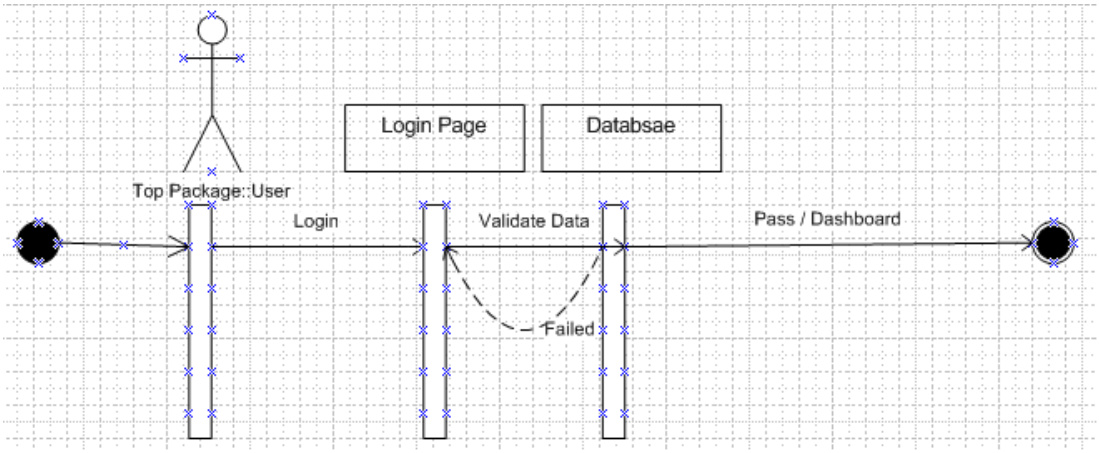


Figure 6: Sign in

4.3-2.3. Book Event

User must sign in and by providing validate data user can book an event.

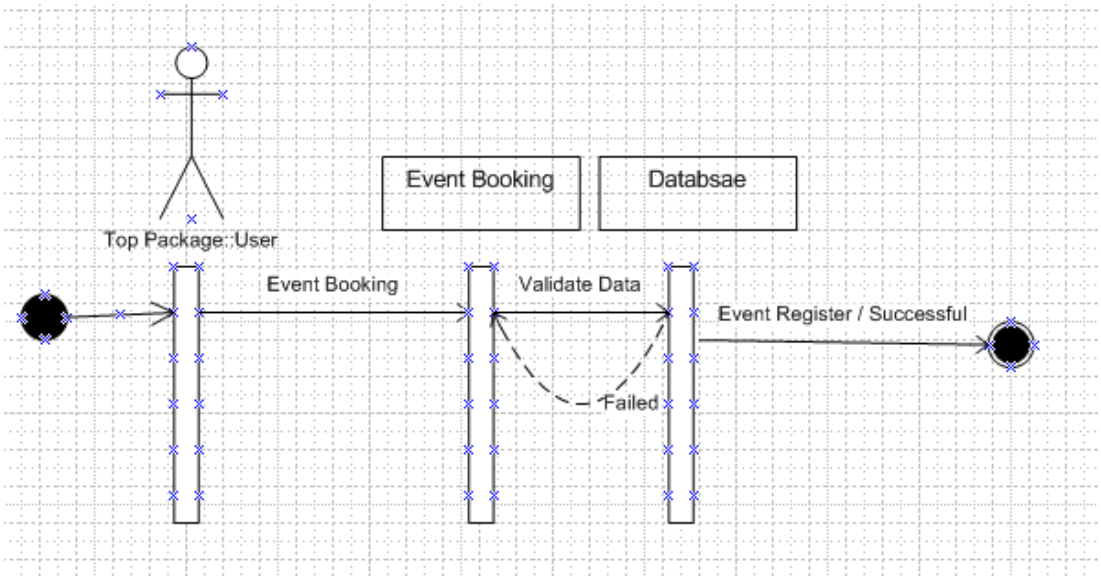


Figure 7: Book Event

4.3-2.4. Payment Method

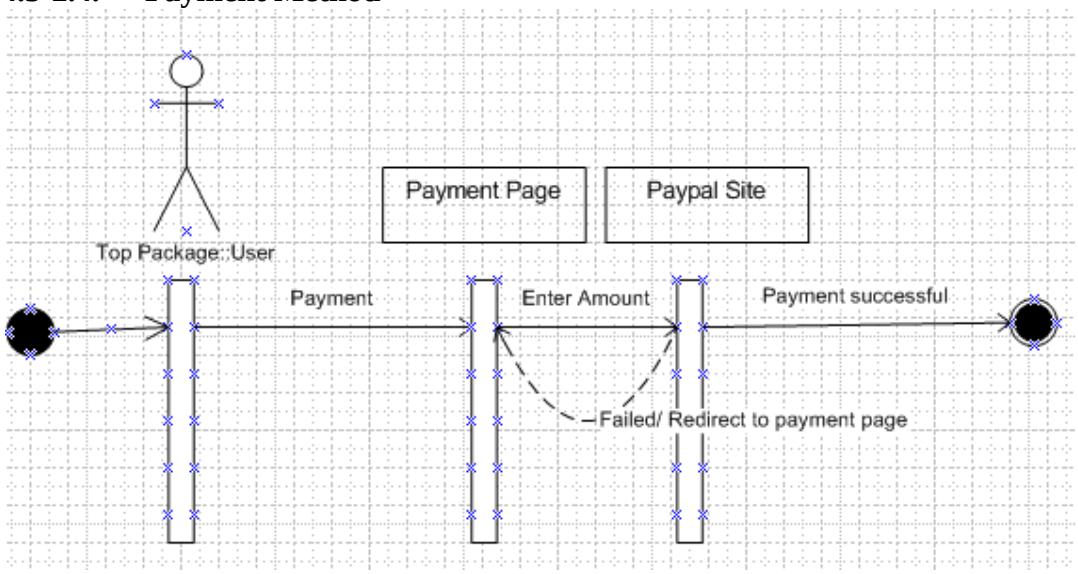


Figure 8: Payment Method

4.3-2.5. Pay Bill

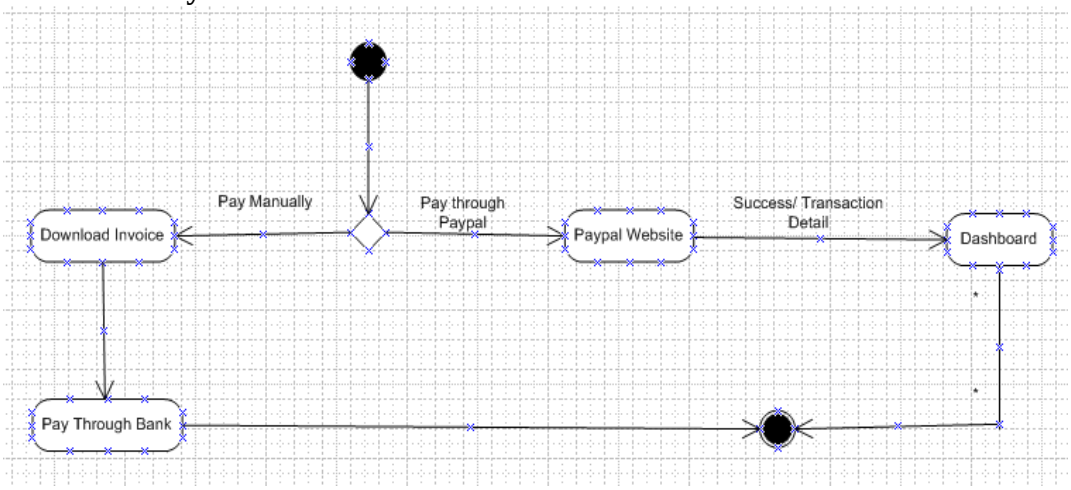


Figure 9: Pay Bill

4.3-2.6. View website

Viewer will be able to view the website.

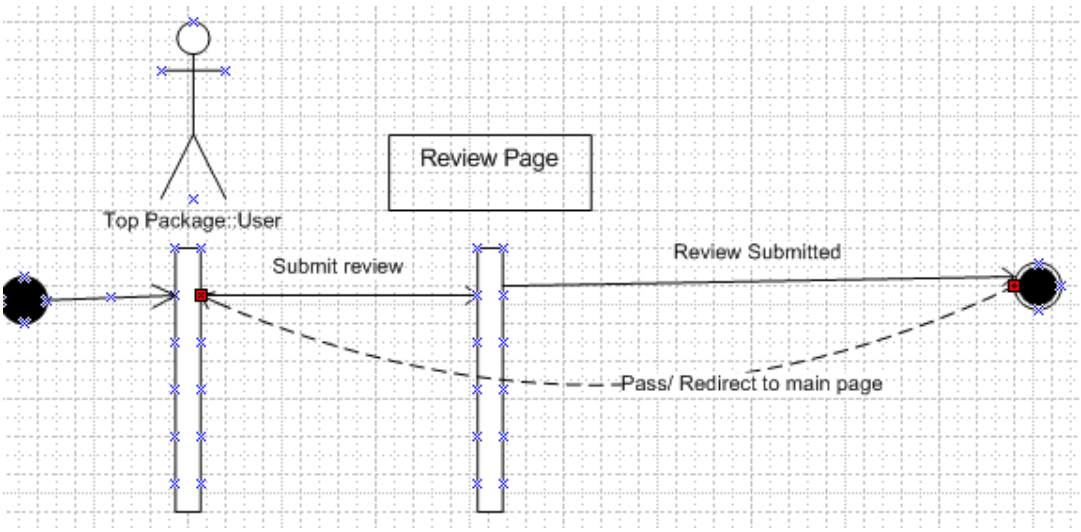


Figure 10: View Website

4.3-3. UML Activity Diagrams

The operational step by step workflows of components in a system are defined in the Unified Modeling Language diagram. This diagram shows the overall flow of control.

4.3-3.1. Find Events

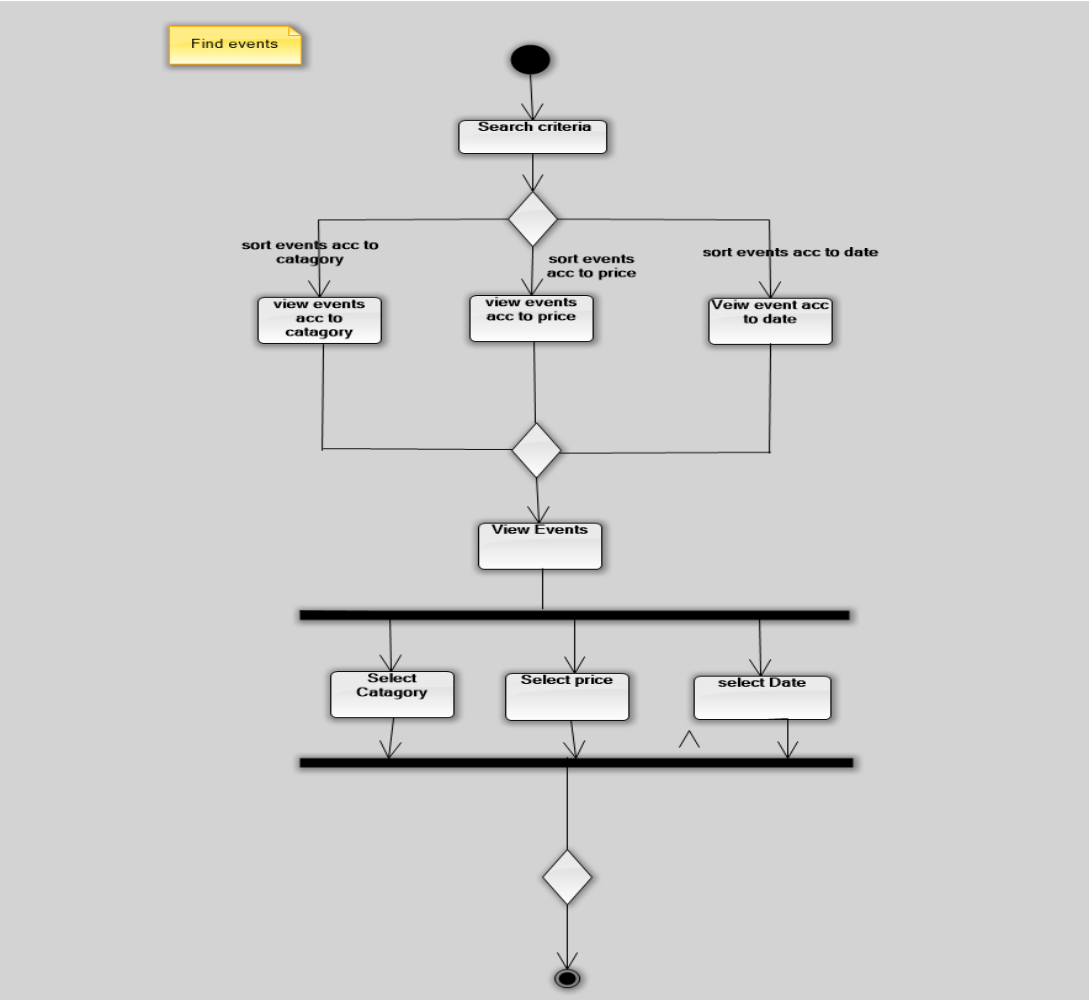


Figure 11: Find Event activity Diagram

4.3-3.2. Select Packages

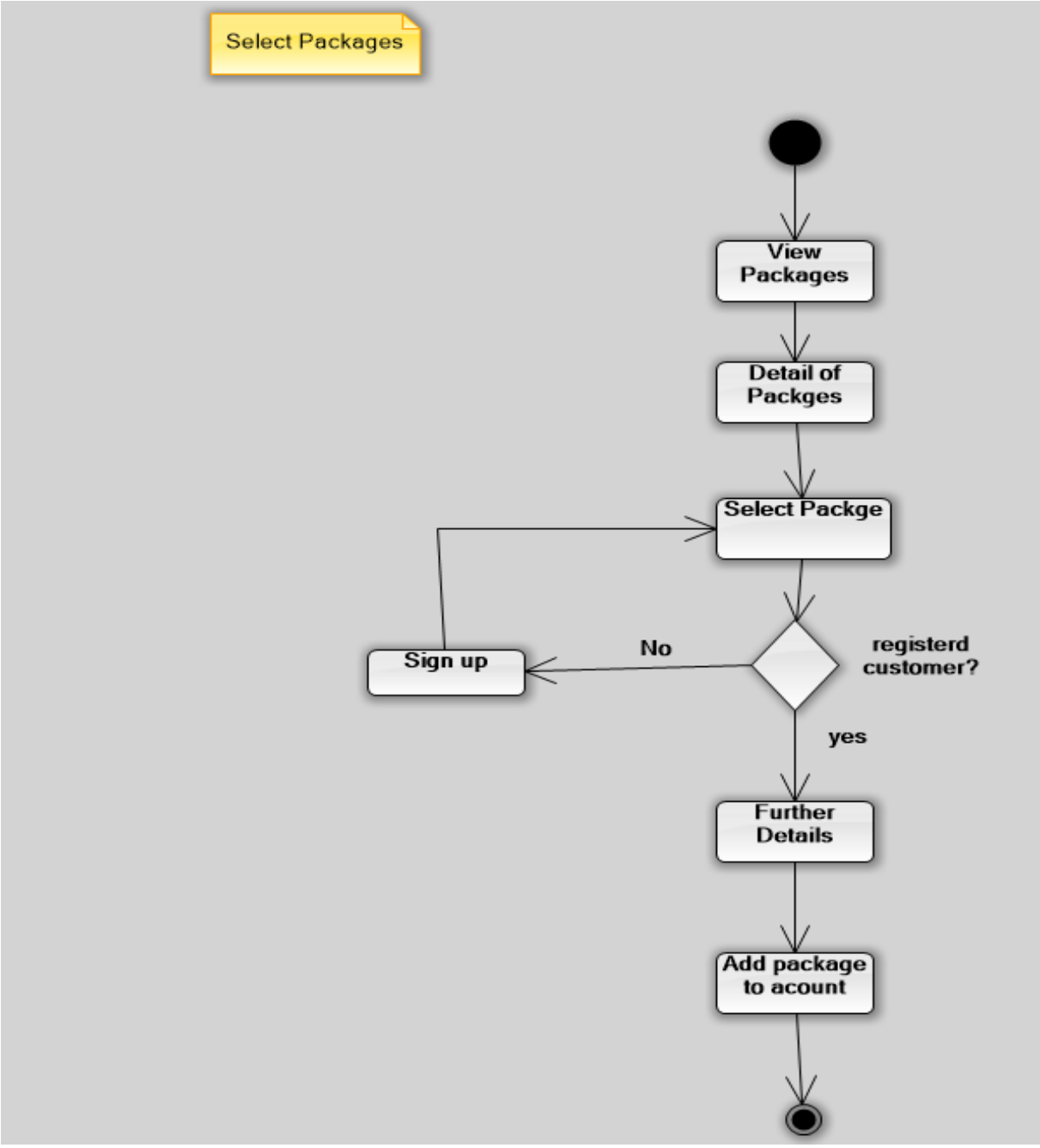


Figure 12: Select Packages activity Diagram

4.3-3.3. Manage Events

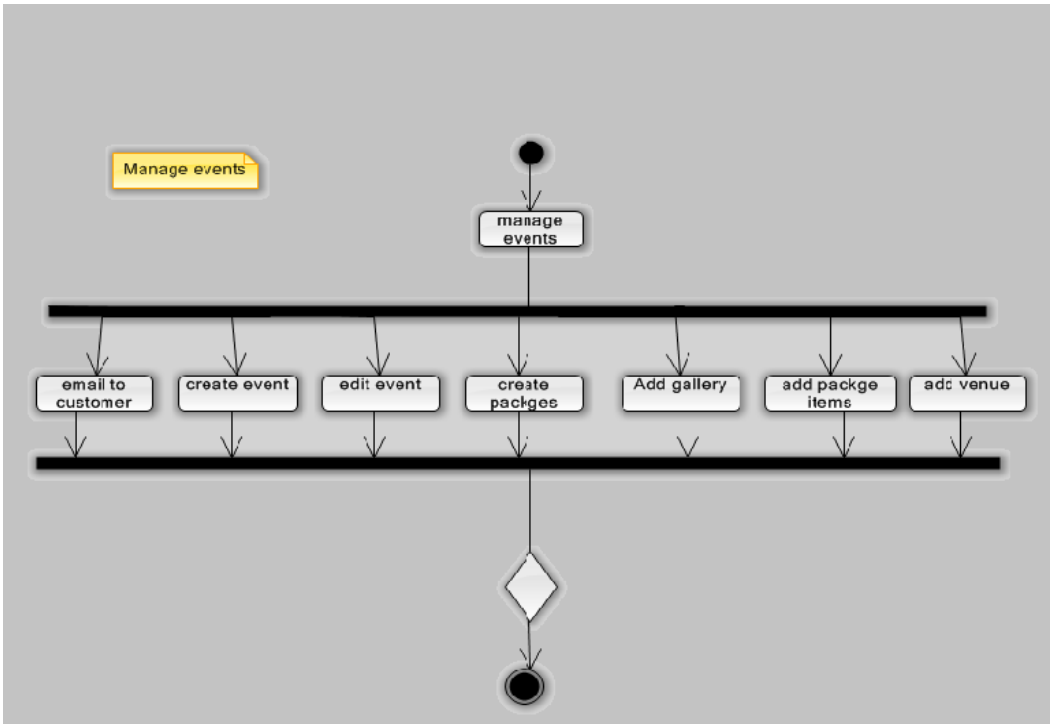


Figure 13: Manage Events

4.3-4. Collaboration Diagram

A collaboration diagram is also called a communication diagram or interaction diagram, is an illustration of the relationships and interactions among software objects in the UML.

4.3-4.1. Get Register

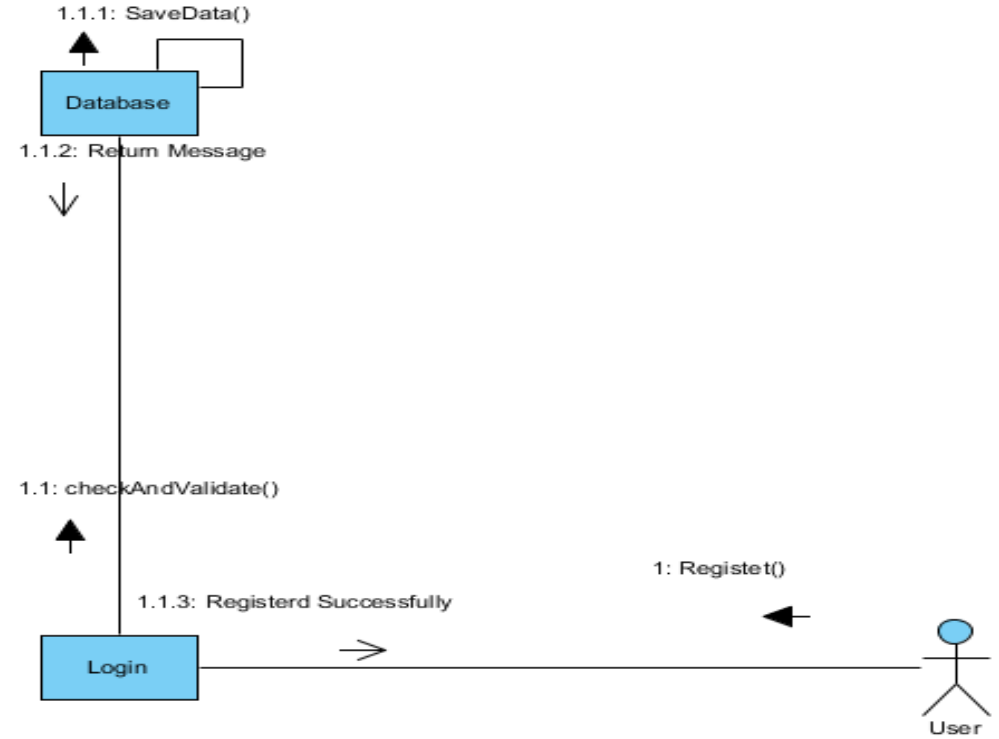


Figure 14: Get Register Collaboration Diagram

4.3-4.2. Sign in

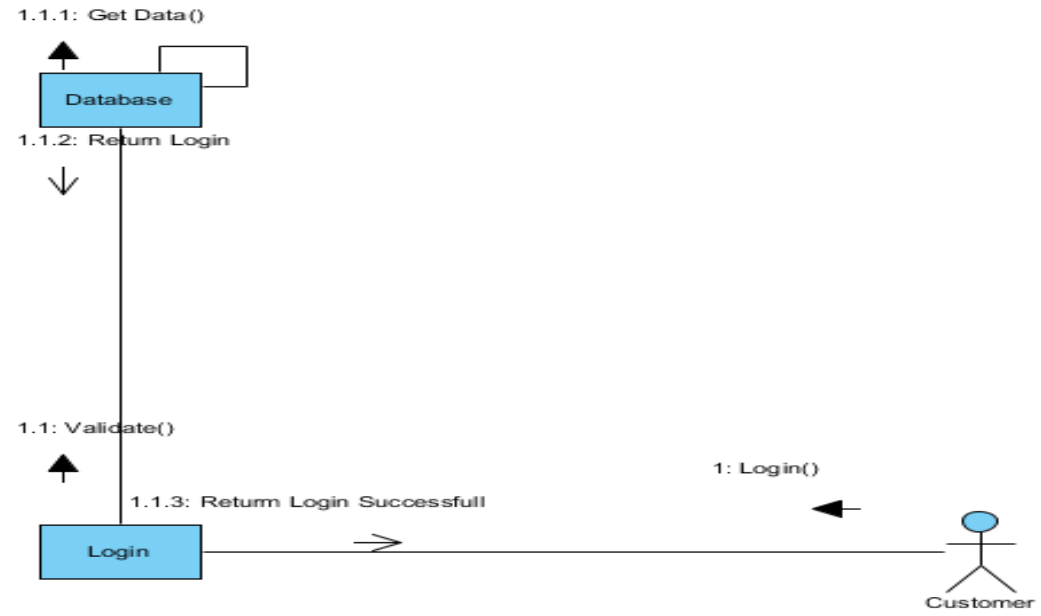


Figure 15: Sign in Collaboration Diagram

4.3-4.3. Book Event

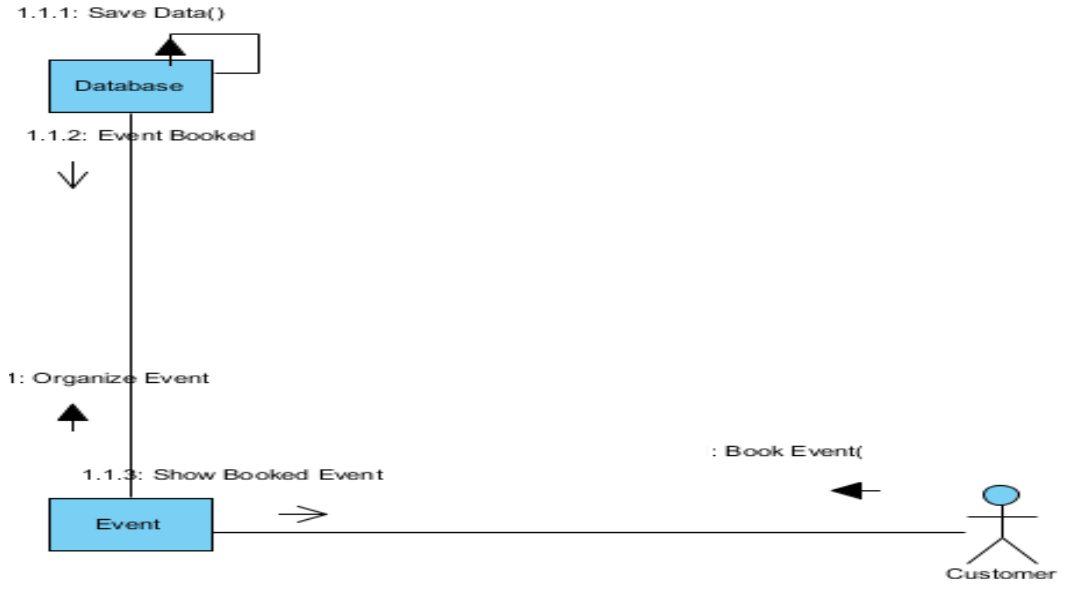


Figure 16: Book Event Collaboration Diagram

4.3-4.4. Select venue

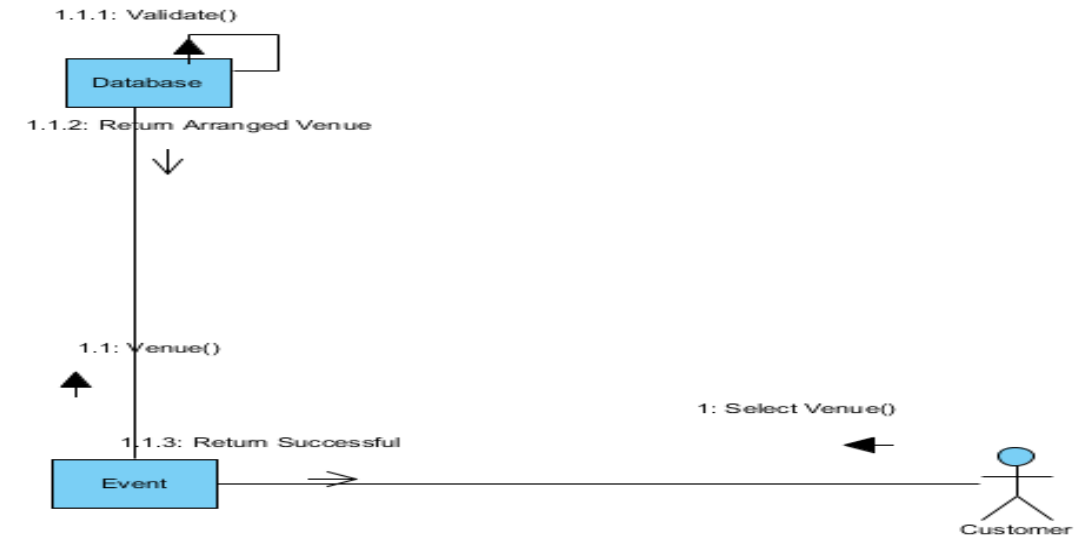


Figure 17: Select Venue Collaboration Diagram

4.3-4.5. View Website

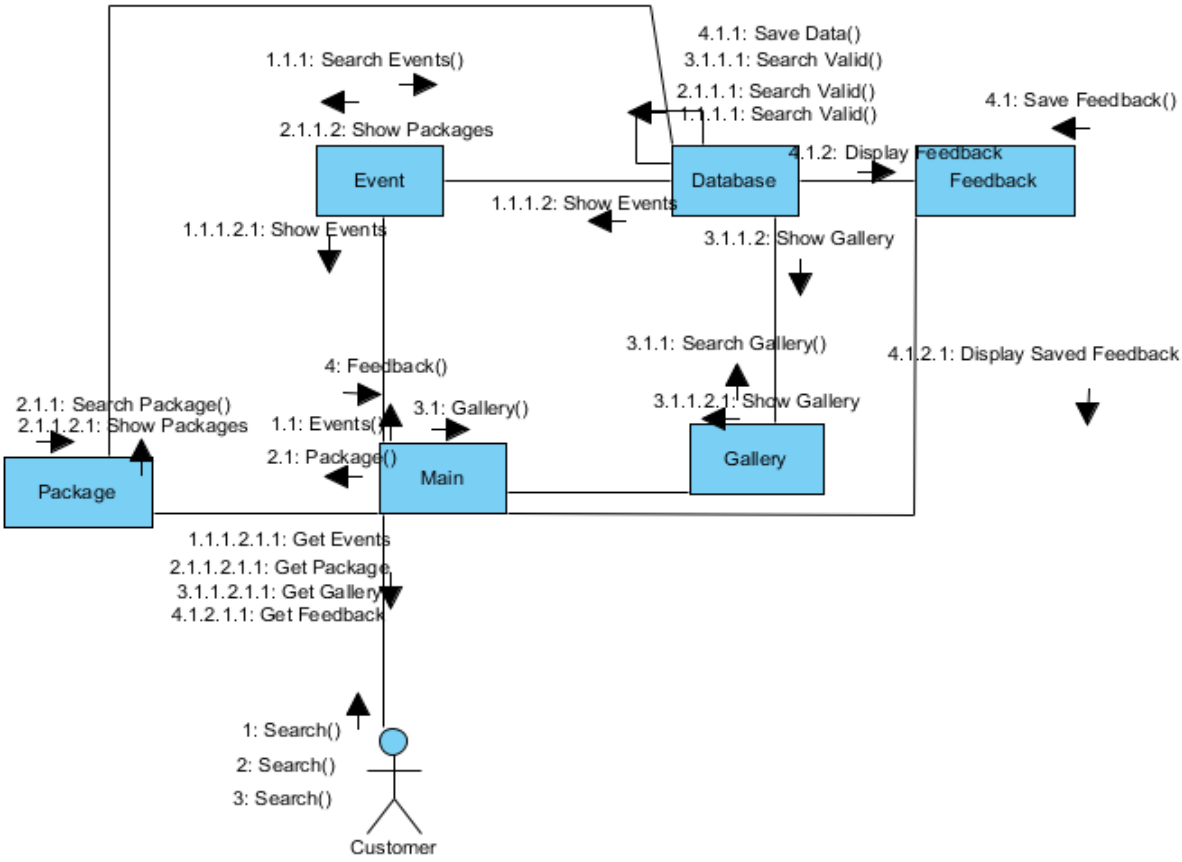


Figure 18: View Website Collaboration Diagram

4.4- GUI Design

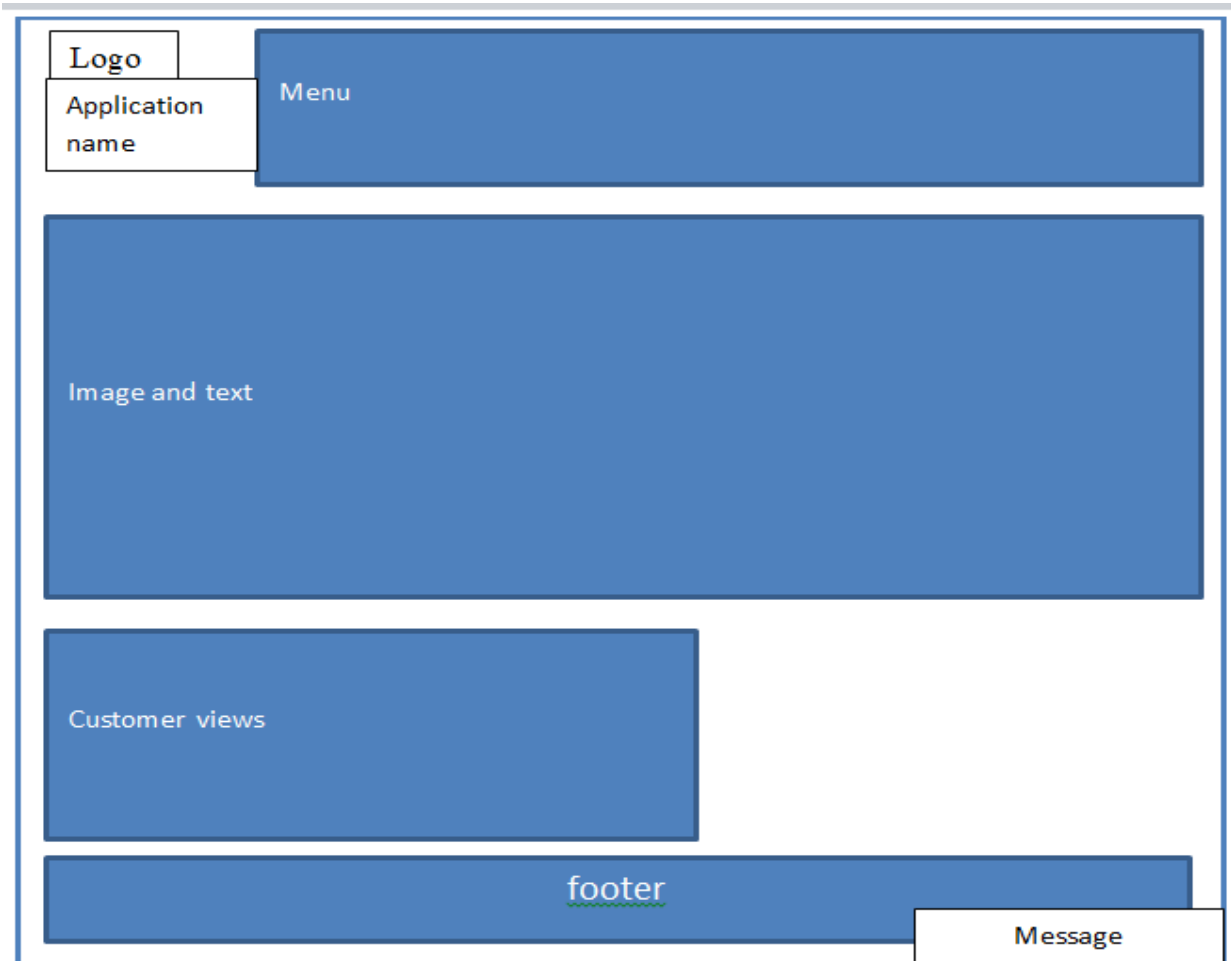
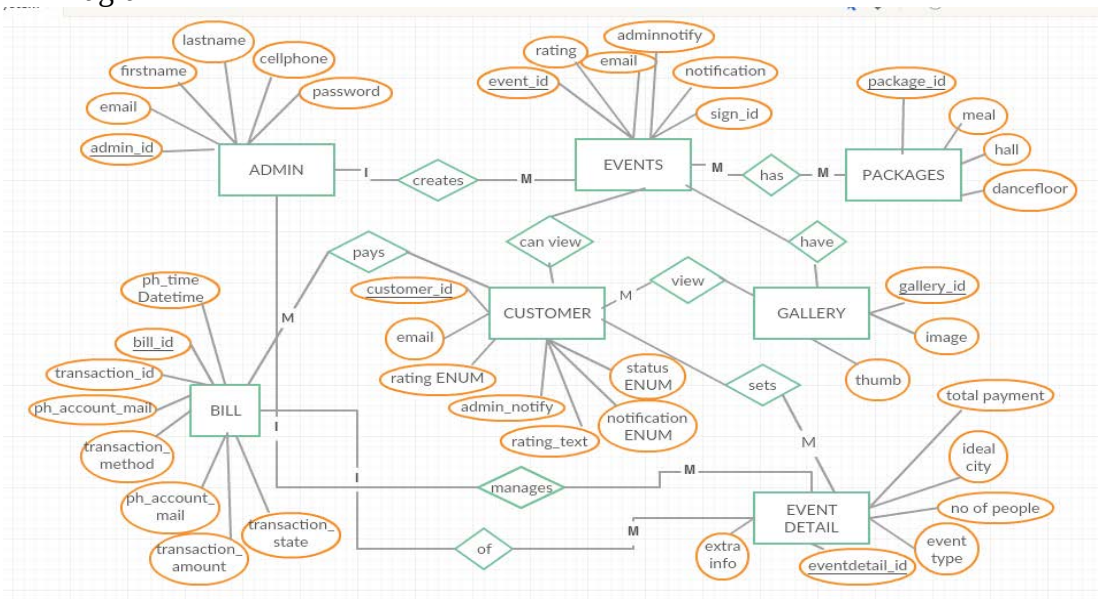


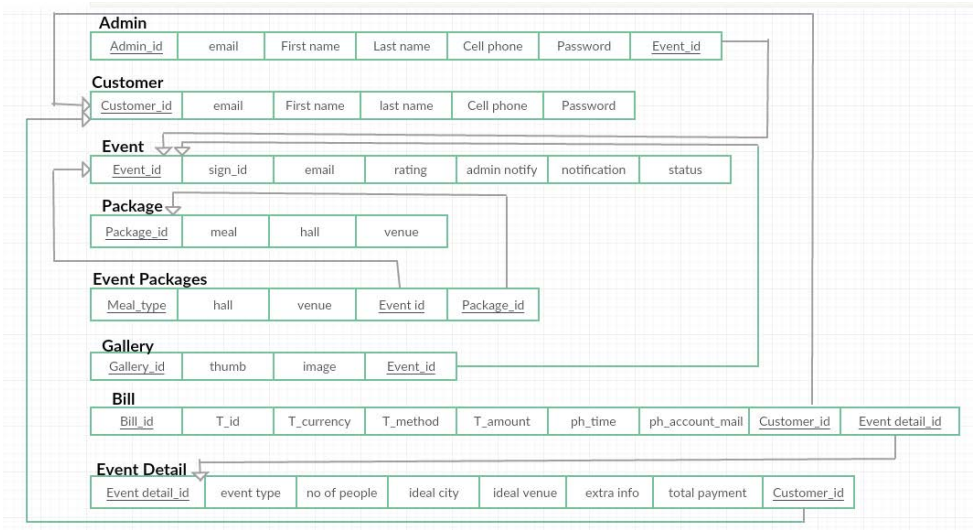
Figure 19: GUI Design

4.4-1. Database Design

ER Diagram



Relational Schema



4.4-2. Main GUI

4.4-2.1. Web App

This is the screen that you will see when you start the program

Figure 20: Web App GUI

4.4-2.2. Customer View

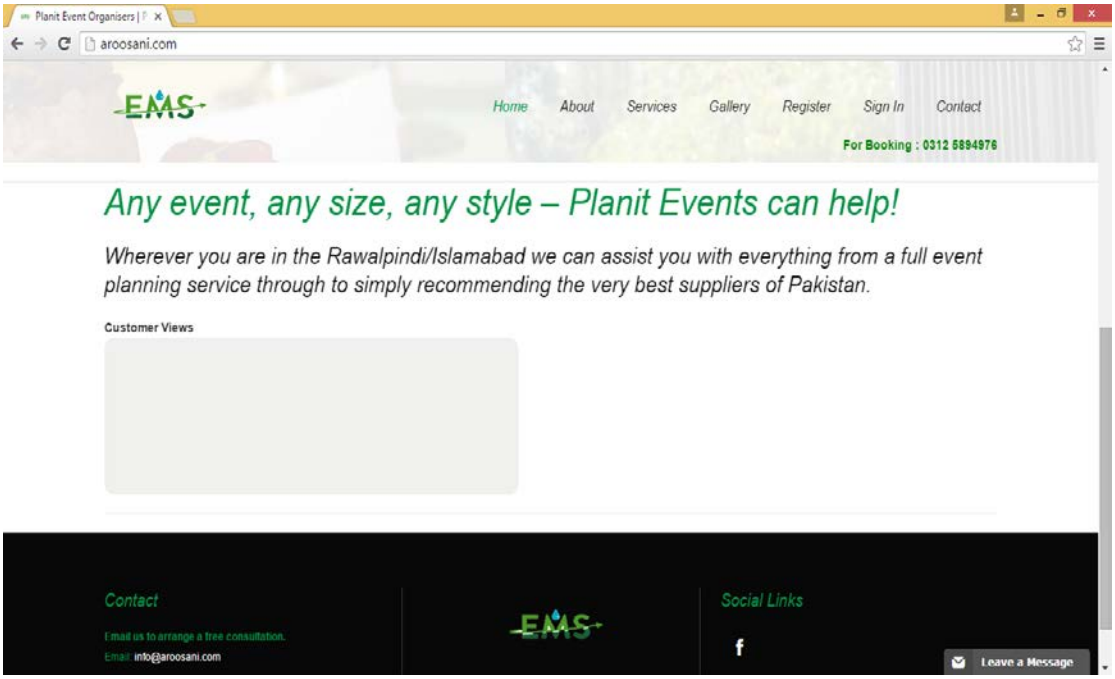


Figure 21: Customer View GUI

4.4-2.3. Viewing Website

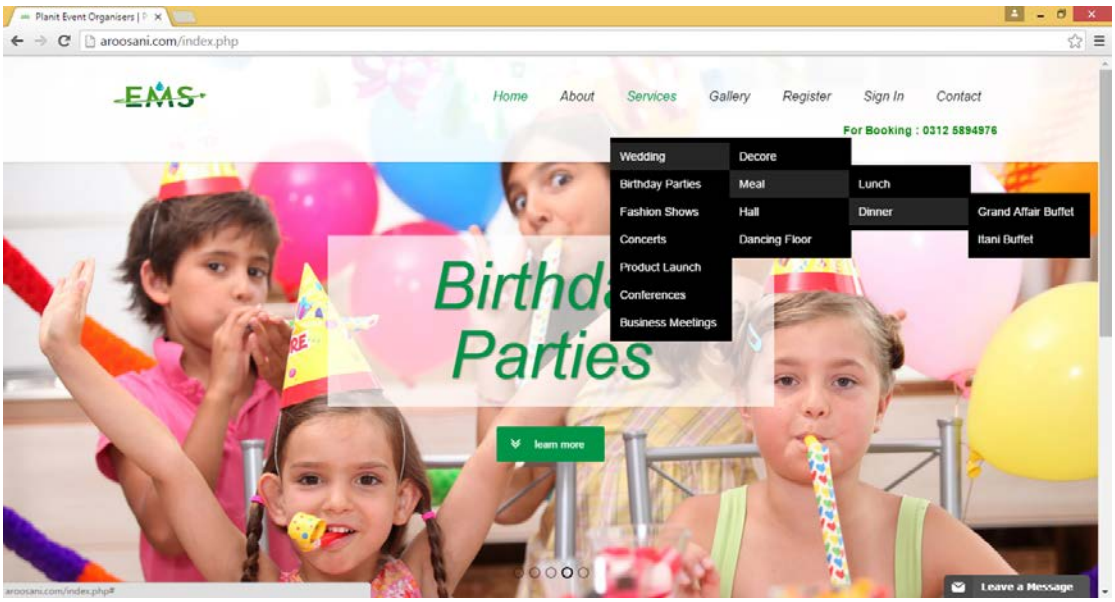


Figure 22: Viewing Website GUI

4.4-2.4. Get Registered

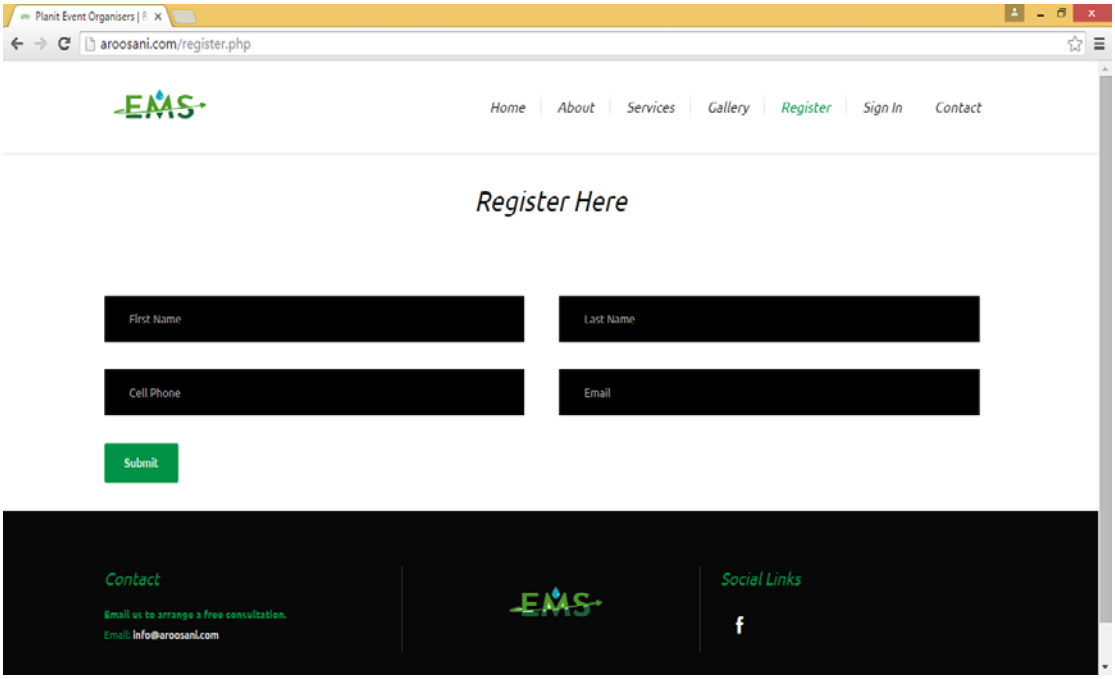


Figure 23: Get Registered GUI

4.4-2.5. Sign in

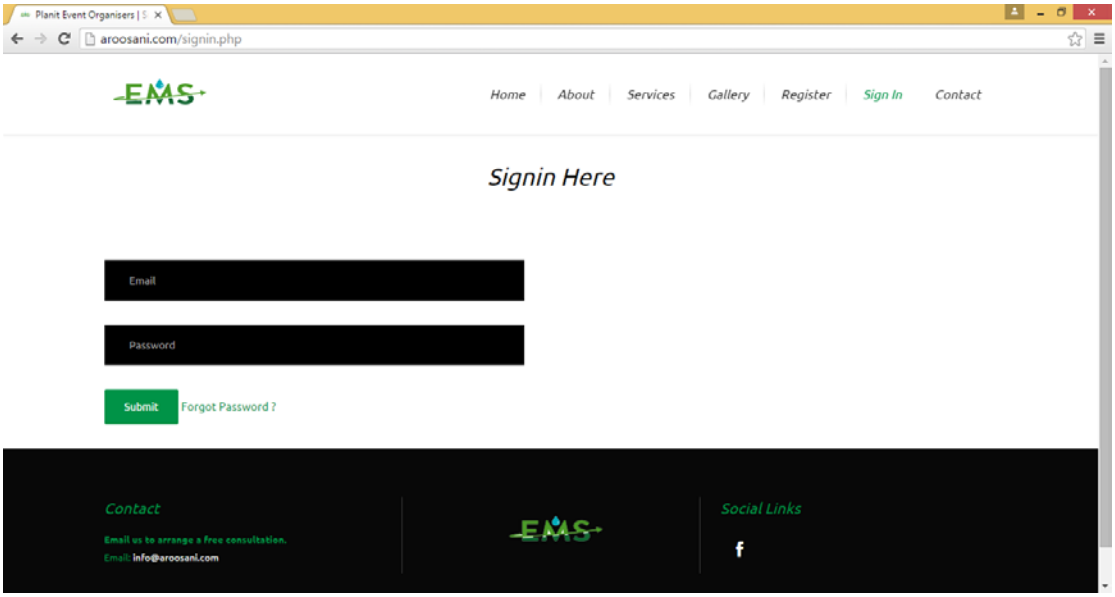


Figure 24: Sign in GUI

4.4-2.6. Contact

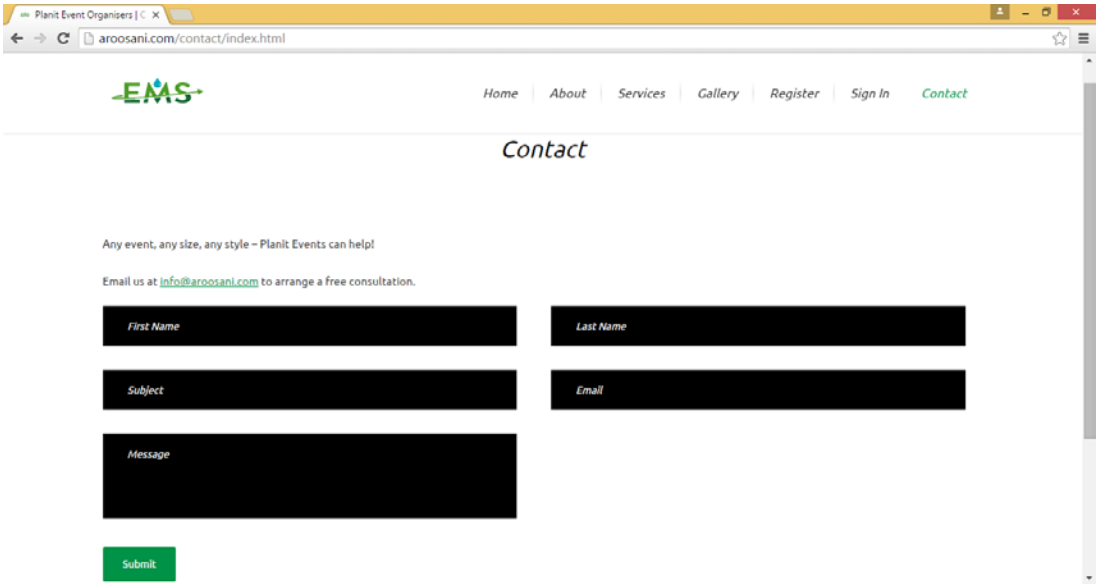


Figure 25: Contact GUI

4.4-2.7. Gallery

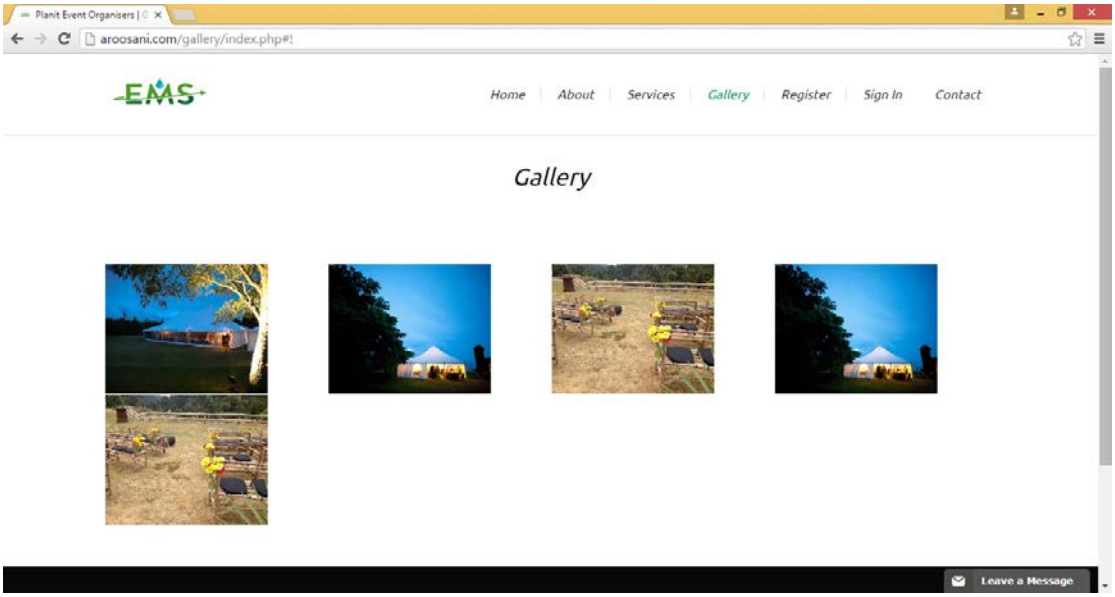


Figure 26: Gallery GUI

4.4-2.8. Send Message

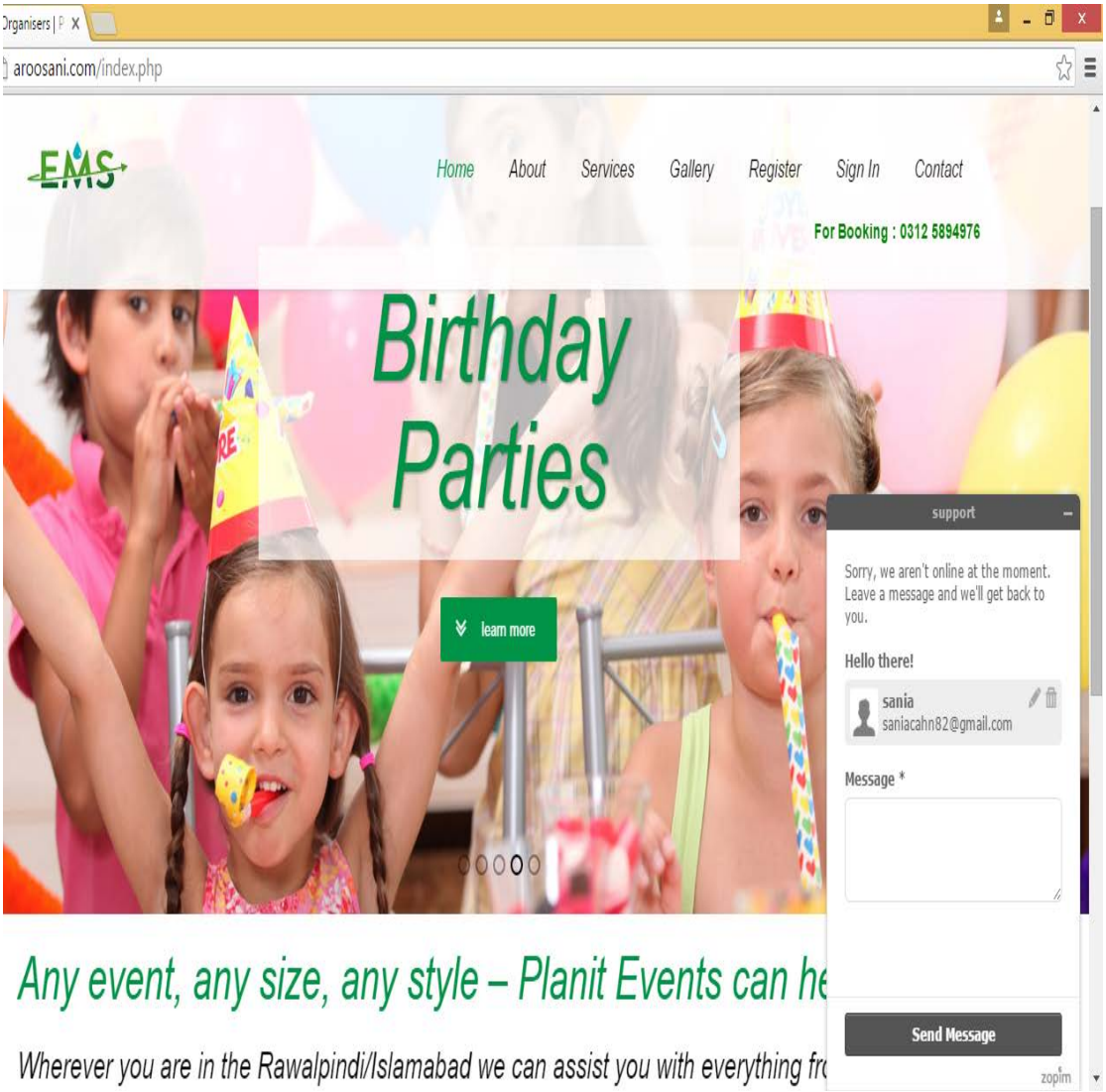


Figure 27: Send Message GUI

5. System Implementation

5.1- System Architecture

The various interfaces of the proposed system and their interaction are shown in figure 21 and represent the system as a whole.

The user is first required to enter a valid URL to access to the application. The home page of the proposed system consists of logo, application name, main menu, customer view's, images, text, leave a message option.

The other is the admin panel which only the administrator level user can access.

There the user can perform the following operations:

- Create gallery
- Create package
- Manage event
- Edit event
- Generate bills
- Chat online
- Create profile
- Get sign in

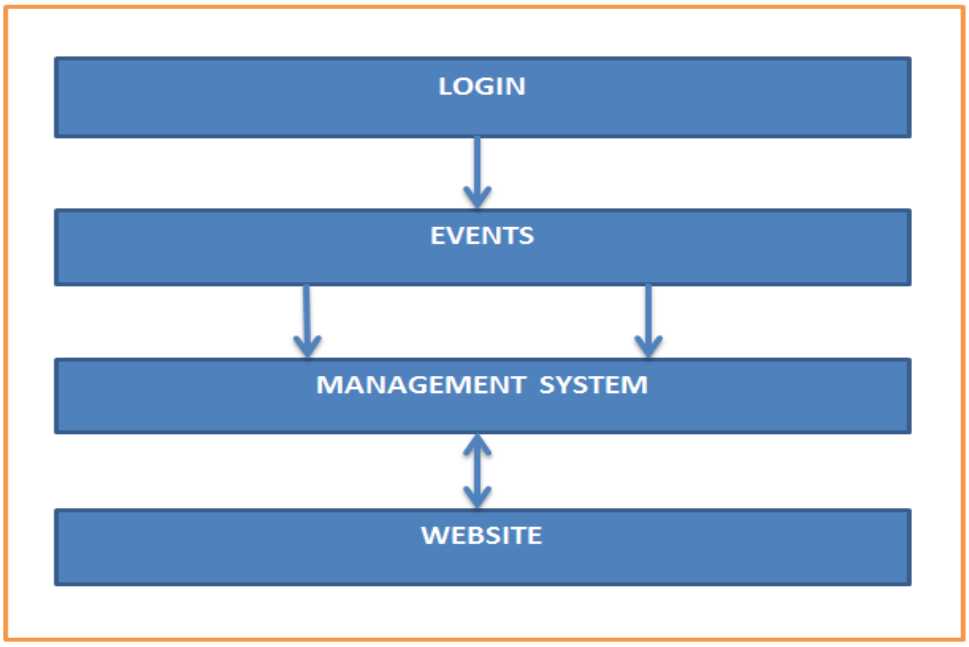


Figure 28: System Architecture

5.2- Tools and technologies

The following tools and technologies are used to build the software.

5.2-1. Tools for Mobile (Android) App:

- Eclipse IDE
- Android SDK and ADT Plug-in
- JDK (Java development Kit)

5.2-2. Tools for Web Application:

- PHP
- Web Browser
- Wamp Server / XAMP Server
- MY SQL

5.2-3. PayPal Payment Procedure:

- Creating PayPal account on https://developer.paypal.com/ for testing purpose
- We have two accounts in testing account, one is buyer and other is merchant account.
- Buyer is to make a payment, and merchant account is to receive payment. PayPal run on live server, that's why we have purchased domain and hosting to make it live.

5.2-4. Domain and Hosting:

- As android app use live links, so we have purchased domain and hosting for it.
- We have a domain https://aroosani.com/, our web based application is live there.
- On the above mentioned domain, we retrieve web services to our android app.

5.2-5. Designing and DocumentationTools:

- Microsoft Word 2010
- Software Ideas Modeler (Version: 5.0)

5.2-6. Development Environment/Languages Used:

- PHP, HTML, JS, and JQuery is used for web based EMS system.

5.2-7. Software Components:

Event Management System is of two main parts; Mobile App and Web App. Mobile App provide a GUI to the user for Creation an Account on website and make reservation according to their requirements. On the other hand, Web App will provide the user a complete interface for viewing whole website and check the venues, packages and get the services. Both Apps are Password protected.

5.2-8. Mobile App:

Mobile App provides a GUI to the user for creating an Account on website and makes reservation according to their requirements.

5.2-9. Processing Logic/Algorithms:

No such algorithms are used in this application.

6. System Testing and Evaluation

6.1- Test Cases

6.1-1. Sign In

Test Case ID		TC_EMS_01	
Description		Tests the functionality of Sign in form as per user requirements	
Applicable for		IE6, Firefox, chrome, android phones	
Requirements		Click on Sign in Enter valid user name and valid password. Press submit	
Initial Conditions		Equipment is set up as per equipment section.	
Step	**Full / Regr**	**Task & Expected Result**	
1		Open the sign in screen/menu.	
2	R	Verify that the sign in screen is displayed on both IE6 and Firefox and chrome	**Pass**
3	R	Enter Username and Password.	**Pass**
4	R	Verify that the username can be entered.	**Pass**
5	R	Verify that the password is masked and can be entered.	**Pass**
6	R	Verify that an ok and reset button is displayed.	**Pass**

Table 8: Sign in test case

6.1-2. Get Register

This test case will determine the functionality of the registration form as per user requirement.

Test Case ID		TC_EMS_02	
Description		Tests the functionality of get register form as per user requirements	
Applicable for		IE6, Firefox, chrome, android phones	
Initial Conditions		Equipment is set up as per equipment section.	
Step	**Full / Regr**	**Task & Expected Result**	
1		Open the get register screen/menu.	
2	R	Verify that the get register screen is displayed on IE6 and Firefox and chrome	**Pass**
3	R	Enter the correct email id	**Pass**
4	R	Verify that the username can be entered correctly	**Pass**
	R	Verify that the password is masked and can be entered correctly	**Pass**
5	R	Verify that the password and user name can entered correctly according to the requirements	**Pass**

Table 9: Get Register Test Case

6.1-3. Create Event:

Test Case ID		TC_EMS_03	
Description		Tests the functionality of create event form as per user requirements.	
Applicable for		IE6, Firefox, chrome, android phones	
Requirements		User must sign in by providing authenticated data.	
Initial Conditions		Equipment is set up as per equipment section.	
Step	**Full / Regr**	**Task & Expected Result**	
1		The event must be successfully loaded and client is already sign in	
2	R	Click on create event form.	**Pass**
3	R	Enter valid data in all fields.	**Pass**
4	R	Press submit button.	**Pass**
5	R	The user should successfully create the event.	**Pass**

Table 10: Create Event Test Case

6.1-4. Payment Method:

This test case will determine the functionality of the payment form as per user requirement

.

Test Case ID		TC_EMS_04	
Description		Tests the functionality of payment form as per user requirements.	
Applicable for		IE6, Firefox, chrome, android phones	
Requirements		Enter valid data in all fields Make payment after entering credit card number.	
Initial Conditions		Equipments is set up as per equipments section.	
Step	Full / Regr	Task & Expected Result	
		Make payment after entering credit card number	
	R	Click on payment form.	Pass
	R	Enter valid data in all fields.	Pass
	R	Press submit button.	Pass
	R	The user should successfully make the payment for creating and booking event as per requirement	Pass

Table 11: Payment Method Test Case

6.1-5. Chat Online

Test Case ID		TC_EMS_05	
Description		Tests the functionality of chat online form as per user requirements	
Applicable for		IE6, Firefox, chrome, android phones	
Initial Conditions		Equipment is set up as per equipment section.	
Step	**Full / Regr**	**Task & Expected Result**	
1		Click on leave message area	
2	R	Verify that the leave message option is displayed on both IE6 and Firefox and chrome	**Pass**
3	R	Verify if manager is online	**Pass**
4	R	Verify that user can chat online with manager.	**Pass**

Table 12: Chat online Test Case

7. Conclusion

Event management system is an online event management system software project that serves the functionality of an event manager. The system allows only registered users to login and new users are allowed to register on the application. This is proposed to be a web application and android application. The project provides most of the basic functionality for an event. It allows the user to select from a list of event types. Once the user enters an event type e.g. (marriage, dance show, birthday party, etc.), the system then allows the user to select the date and time of event, place and the event equipment's. All the data is locked in the Database and the user is given a receipt number for his booking. This data is then sent to the administrator (website owner) and they may interact with the client as per his requirements and his contact data stored in the database.

The objectives of our project are:

Providing a generic application

Online event management

We have been successfully able to do that and our system fulfills all the requirement of the project.

The future enhancements that can be done are availability of more venues, supplier side we have not considered that yet we can add that as module to system, inventory system can be introduced and in future we can use the visa card as well.

With the passage of time employees can be categorized according to their work.

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