THE SUPERIOR COLLEGE LAHORE

Faculty of Computer Science & IT

Final Year Project

PROJECT REPORT

Smart Event Corridor

Project ID: **FYP-BSCS-F17-040**

Project Team

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Project Report

Smart Event Corridor

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
Mumtaz Ali	1.0	11th June,2018	Original Draft	
Mumtaz Ali	2.0	15th June,2018	Changes Based on Feedback from Supervisor	
Muhammad Javaid Iqbal Umair Zafar	3.0	27th June,2018	Changes Based on Feedback from Faculty	
Muhammad Javaid Iqbal	4.0	8th Jul, 2018	Added Project Plan	
Muhammad Javaid Iqbal	5.0	15th Aug, 2018.	Changes Based on the errors	
Muhammad Javaid Iqbal	6.0	1st Oct, 2018	Changes in the Final Report Based on Feedback from Supervisor	
Muhammad Javaid Iqbal	7.0	12th Nov, 2018	Changes in the Project Based on Feedback from Supervisor	
Muhammad Javaid Iqbal	8.0	12th June, 2019	Changes in the Final Report Based on Feedback from Supervisor	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

_____

Name: _____

Date: _____ Signature: _____

PROJECT MANAGER

Comments: _____

_____

Date: _____ Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

_____

Date: _____ Signature:_____

Dedication

All our efforts and struggles of educational life are dedicated to our dear parents; without their love and support, it would never have been possible. We also dedicate this work to our honorable and respected teachers, especially to our supervisor, who taught and supported us in achieving the ultimate result.

Acknowledgements

We thank Allah for giving us the ability to perform the essential tasks and achieve the desired result. The prayers and support from our parents played no less role in helping us catch the kite of success. We are really thankful to our teachers for their generous transfer of knowledge and uncountable support. It was a really good experience, a very memorable one; for what we are today is the hard work of our teachers and their extensive support and well wishes for us.

Executive Summary

Our project consists of a web app which has been built to aid the viewers in selecting their desired venues and to provide them location availabilities where they can get their events organized such as marriages, birthday parties, get together, etc. A little work has been done on this subject in case of computer technology in order to facilitate the people. Our aim is to provide one platform that covers all the essential spots where attention is required.

Keeping it simple, this has been made with an architect easy to understand by ordinary people. The homepage gives access to main pages like venues, dashboard, register, sign up, etc. User can jump to venues page to select any venue that he likes. The venue has an option to book that particular hall. The search button on the homepage leads to the search page where the user can search for the hall in terms of area or the venue name.

Moreover, our project also welcomes vendors. Vendors can sign-up and register their venues, providing details such as address, contact, services, pricing, etc. In short, we have tried our best to provide a flawless B2C platform where the customers can get in touch with the service providers directly.

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Chapter 1

Introduction

Chapter 1: Introduction

Smart Event Corridor is a business to customer platform for event-hall owners to put their business online. This portal will provide details and information of event halls along with location to the customers. The users of this application, i.e. customers, can search for the desired event hall with the liberty of booking and contacting the hall owners personally. On the other hand, the hall owners, i.e. vendors will be given the service to register their venues at our application.

1.1. Background

Everyone wants to celebrate the special events in a remarkable way, thus the need for a special venue arises. This inevitable task is undertaken by Smart Event Corridor in a satisfactory manner.

The most notable problem people face is the lack of knowledge of the available halls in the specific location. Likewise, availability of the halls is another hurdle to face. Issues such as these result in a lot of hard work by the customer by manually visiting the halls and burning time and fuel. However, how great would it be if you get all the information without taking a single step out of your doorstep?

The purpose of our project is to bring the vendors and customers closer digitally by providing a platform for their direct interaction. This field has been ignored ever since but is a vital necessity and we've felt the need for giving it a proper attention. Although some tries have been made in the past but they lack in one aspect or another. Our aim is to cover that gap and provide a one stop platform to fill the needs and satisfy our users. From user location to venue details (including menu, sound system, light system and all-important details) we have tried our best to cover it all with minimum amounts of error.

With all the other event management platforms working in Pakistan, our project stands out of the crowd due to its attractive design and very user-friendly interface. However, this is not the end to it. Our team has planned to work more over it and to keep improving by keeping an eye on the market and making our product flawless by implementing new and creative ideas that help it work better.

Motivations and Challenges

Notable gap in the market for this necessity was seen by our team as a challenge and we were motivated to put all our efforts to elevate our community by introducing a noteworthy project.

1.2. Goals and Objectives

Keeping in mind the sole problem, we came up with a plan to build an application that would save time and facilitate our users.

- A database of event halls where the users can search and view
- Possibility of online booking
- Freedom for the hall owners (vendors) to publish their halls
- User booking approval by the vendors
- 24/7 Accessibility

Time and Energy efficiency:

Not to mention the time and energy spent while searching for a hall physically, with Smart Event Corridor the results are at the distance of a few clicks, saving time and energy ultimately.

Accessibility:

All the users will have the access to our dynamic database updated regularly allowing them to see the venues, vendors all the related details in no time.

Scope of the Project:

Online Hall & Venue booking system provides a reliable and easy to use online reservation system for marriage halls, party halls, village halls, clubhouses, community centers and all other bookable function rooms. This platform is for the users to find best destination and professionals for their upcoming event. Besides viewing the recently added halls, user will have the option to search for the venue using different filters like Location, Hall/Vendor name, services etc.

1.3. Literature Review/Existing Solutions

There have been several such platforms in the market but unfortunately, they are either obsolete or lacking in one fashion or the other. The need for one platform that covers all the essential user requirements in eminent. Thus, looking at such factors we have built a platform that eliminates all lacking and provides an almost complete platform. Named below are the running systems, described are their lacking.

i. Not user friendly
ii. Difficult to understand the site map
iii. Complicated
iv. Unnecessary options (messy)
v. Very difficult to locate venues
vi. No details about venue services
vii. Lacking menu detail
viii. Lacks venue details
ix. Lacks service details
x. More like a third-party service

1.4. Gap Analysis

The following is a concise gap analysis of our application.

Current State: Basic structure of our application is very well done. We have structured it in an easy to use manner for the user. Currently, however, we have put dummy data in our website to give an overall view.

Future State: We then plan to put real data by entering real time halls in our database. As the application is launched, we will keep on expanding it by including more areas, users and vendors.

Gap Description: The gap only remains in temporary data and real time date. We have only imaginary data but not factual information. Official data shall be required before launching the application.

Bridging The Gap: This gap will be bridged by meeting various venue hall owners in person and inviting them to join our platform. Initially we will offer our services for free and as the traffic generates and the vendors feel satisfied with our services, we may then apply service fee. After the initial bridging, our customers and clients will follow along online and we may not need to meet them physically.

1.5. Proposed Solution

Our proposed solution covers all the essential points where the older platforms have failed to match the requirements. One such example is that we provide a platform for both, the users as well as vendors. This is a B2C platform. The vendors can add their venues with details and keep them updated while the user can view and book venues accordingly.

1.6. Project Plan

Every person wants to make time special for special ones on special moments. So, they need a good place to spend these moments. Event halls provide them a good place to celebrate their special times like weeding ceremony.

Problem is that customer don not know how many good halls are available nearby to his locality. And he does not know either they are free or booked. So, he has to go and heck every hall which is really a time costly work. So we are developing a online platform for business owners and customers, how can get services online

The purpose of our project is to bring the vendors and customers closer digitally by providing a platform for their direct interaction. This field has been ignored ever since but is a vital necessity and we've felt the need for giving it a proper attention. Although some tries have been given on it but they lack in one aspect or another. Our aim is to cover that gap and provide a one stop platform to fill the needs and satisfy our users. From user location to venue details (including menu, sound system, light system and all-important details) we have tried our best to cover it all with minimum amounts of error.

With all the other event management platforms working in Pakistan, our project stands out of the crowd due to its attractive design and very user-friendly interface. However, that is not the

end to it. Our team has planned to work more over it and to keep improving by keeping an eye on the market and making our product flawless by implementing new and creative ideas that help it work better.

Finally, our aim to provide the best platform in the market that is almost flawless and meets all the user demands that are necessary to make it the best one out in the market, spiral model is used

Using Spiral Model for the development of smart event corridor

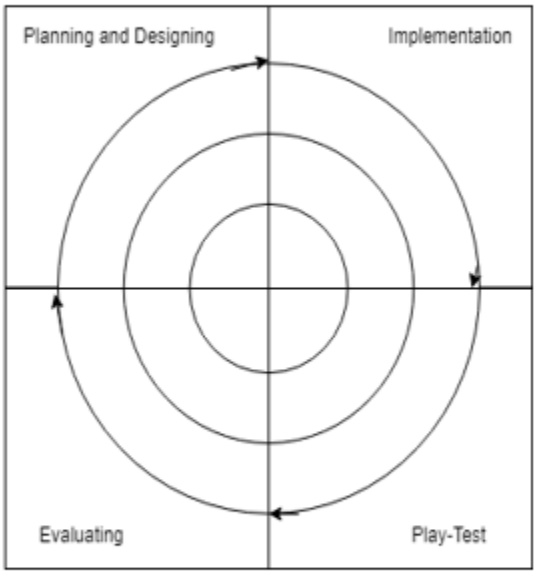
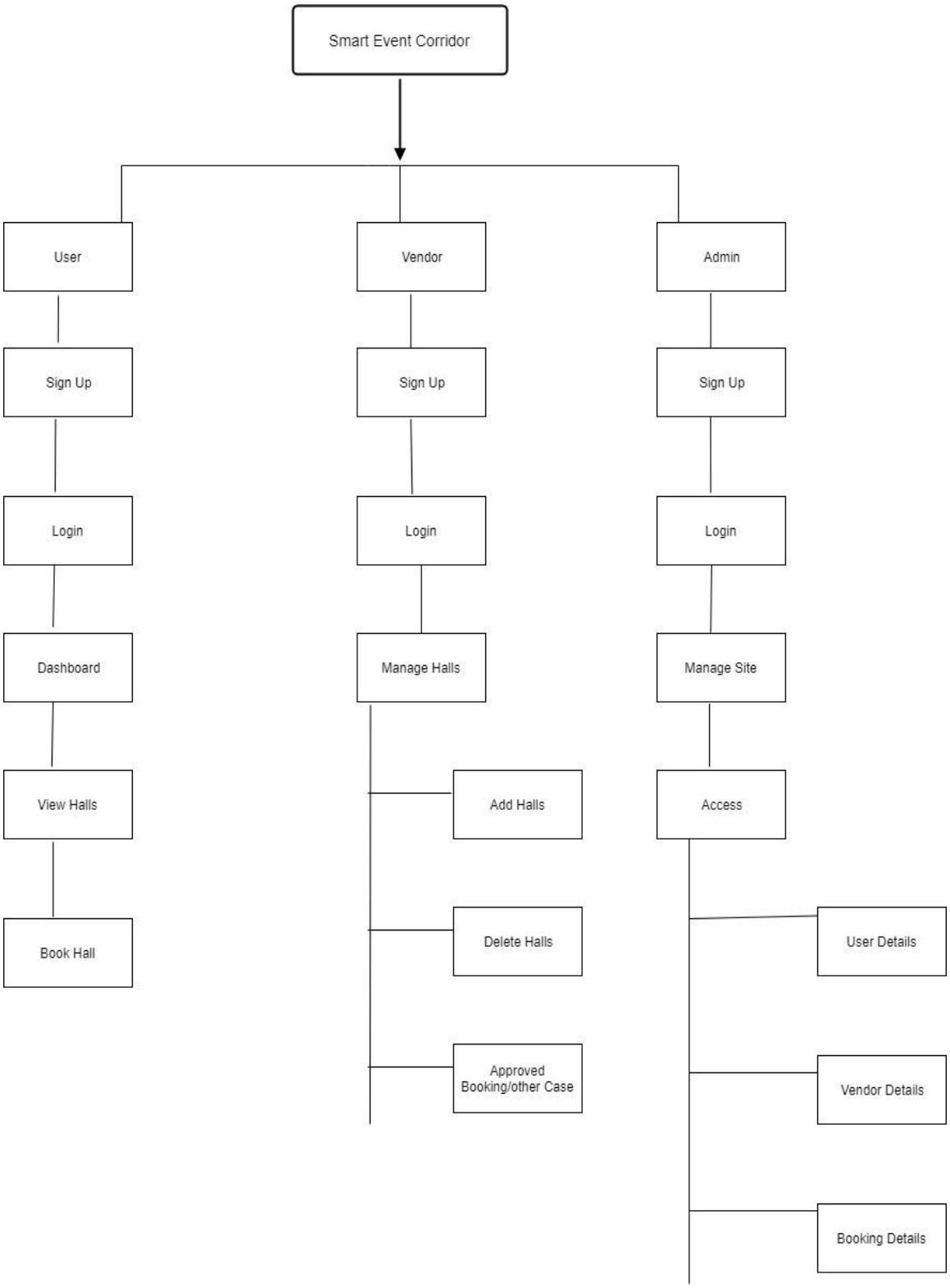


Fig. 1 Spiral Modeling for Smart Event Corridor

Work Breakdown Structure

A work break-down structure (WBS) is used for breaking down a project into easily manageable components or bites. To make complex web-based Application more manageable we use work break down structure. WBS (work break down structure) is a tree like structure, each tree node further expands & leaves the smallest tasks.

Following is the work break down structure table for our application.



1.6.1 Roles & Responsibility Matrix

Team Structure, members name and their responsibilities are below.

Ziauddin & Yousaf	Fahad	Farhan
Backend development & Code	Research	Frontend Dev, Design & Code
Documentation	Database & DB Administrator	Reports

1.6.1. Gantt Chart

Following is the Gantt chart of our application.

Project Schedule	Dec 2018				Jan 2019				March 2019				May 2019				Summary	
Tasks:	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	Hours	Percent
Requirements	12	12	8	6													38	17.90%
Design			4	6	12	8											30	14.20%
Analysis					4	8	12	6									30	14.20%
Development							7	6	6	5							24	31.10%
Integration of module										6	6	2					14	6.60%
Testing										6	12	12					30	14.20%
Analysis (requirement ,design, changing ,etc)		4	4	4	4	4	4	4	4	4	4	4	4				4	1.90%
Hours	12	12	12	12	16	16	19	12	6	17	18	14	4				170	100.00%

1.7. Report Outline

Abstract
An outlook of report.
1 SUMMARY
Comprehensive summary of report contents.
2 KEY GRAPHS
The graphs used in the document
3 BASIC ORGANIZATION
Structural data in the report.
3.1 Introduction
Similar to the summary, it may include the problem statement.
3.2 Experimental Design/Materials and Methods
Development details.
3.3 Data Exploration/Analysis
Market analysis.
4 ROLES AND RESPONSIBILITY
Group member names and their roles and responsibilities in developing the application.

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

The cons of existing platforms discussed in section 1.4 are kept in mind while making this project. We have covered all the discussed issues in our project. For example, we have included in our project;

1. Integration of google map
2. Visual mapping
3. Venue address
4. Venue details (services, menu, cost, etc.)
5. Friendly UI
6. Mobile compatibility
7. Etc.

2.1.2. Document Conventions

This document uses the conventions as defined below.

Description	Appearance
File names	File.extesion
Directory	Smart Event Corridor/src/img
Application names	Application.exe
PHP variables	$variable

Coding	<code>goes here</code>
Emphasized	*This is an emphasized sentence*
Quoted text	*"quote"*

2.1.3. Intended Audience and Reading Suggestions

This document comprises of details ranging from the user interfaces to the backend coding. Therefore, it can be used by both, the users of the product as well as the developers so as to learn the different tactics we have used in our project that may result helpful in their work.

Users: This report provides a brief introduction on the functionalities of project, throwing a light on the different ways the user can manipulate it to achieve the result. So, it can be helpful for the user to read this document in order to get the most out of our product.

Developers: With all those technologies used in our project, It would be worthwhile for the developers to give it a glance and study the related topics of interest for the sake of knowledge or to use them in their own products

Testers: This document deals with all the basic details on the working of the product. Hence, it would be better for the testers to go through this.

Writers: This can be used as a template for the current or future writers of similar categories.

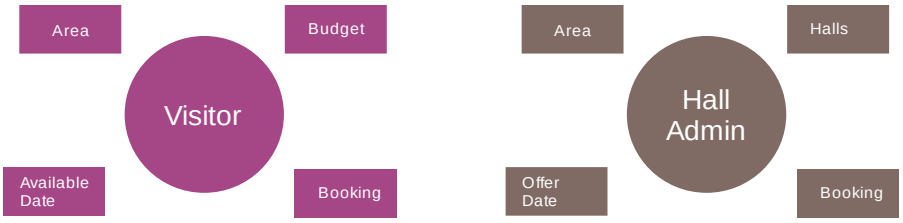
2.1.4. Product Scope

We have used agile model development for this project. With the growing population, the need for event venues is increasing day by day. With this trend in mind, we are working over the various aspects to make our product everlasting and sustainable. The competition in the market is not to be ignored and our product till today is the one that satisfies all user requirements and it covers all the basic requirements.

2.2. Overall Description

2.2.1. Product Perspective

As described earlier, Smart Event Corridor focuses to provide a platform for the users where they can surf, compare and book events online at the venues they like. This product has a rich database with great deal of venues available to the users. The venues have a description, location, photo gallery, services, etc. The users can order their requirements regarding the venue and do online booking.



2.2.2. Product Functions

The main purpose of Smart Event Corridor is to maximize user ease. The vendor Is supposed to submit all the details and the user can select through different options, edit the order and pay the bill online without physically going there.

2.2.3. User Classes and Characteristics

Our users may include two main categories

1. Registered Users

The users availing our services (such as booking a venue) have an option to sign-up for an account on our website. With this, their record is kept safe in their profile and they can view their booking, payments, favorites, etc in a later time.

2. Vendors

The vendors are the service providers, that is, they register their halls/venues at our website and allow the users to ingeract with them. Vndors hav the control over their venues, such that, they

can update, edit, delete, add details to a specific venue or altogether add new venues or delete old ones.

2.2.4. Operating Environment

Our product works on all the computing devices that have an internet connection and a web browser.

2.2.5. Design and Implementation Constraints

Constraint include the unavailability of internet connection, out dated web browsers, an out of order computing system and/or out dated computing devices.

2.2.6. User Documentation

The user documents include two parts

1. User Manual

User manual describes the options the user has to interact with the product

2. Operator manual

Operator manual has the document for the developer who is supposed to maintain, run or repair the product

2.2.7. Assumptions and Dependencies

Our product is user mobile friendly and it can be oriented with the device screen or resolution. With this the user can access it from anywhere with his or her laptop.

However, if the computing device or mobile phones behave unexpectedly, the results would not show up accurately.

As an example. Let us take old browsers (Internet Explorer 6 or lower) which are not updated with the latest technology used in our product and hence, this constraint will cause an error.

2.3. External Interface Requirements

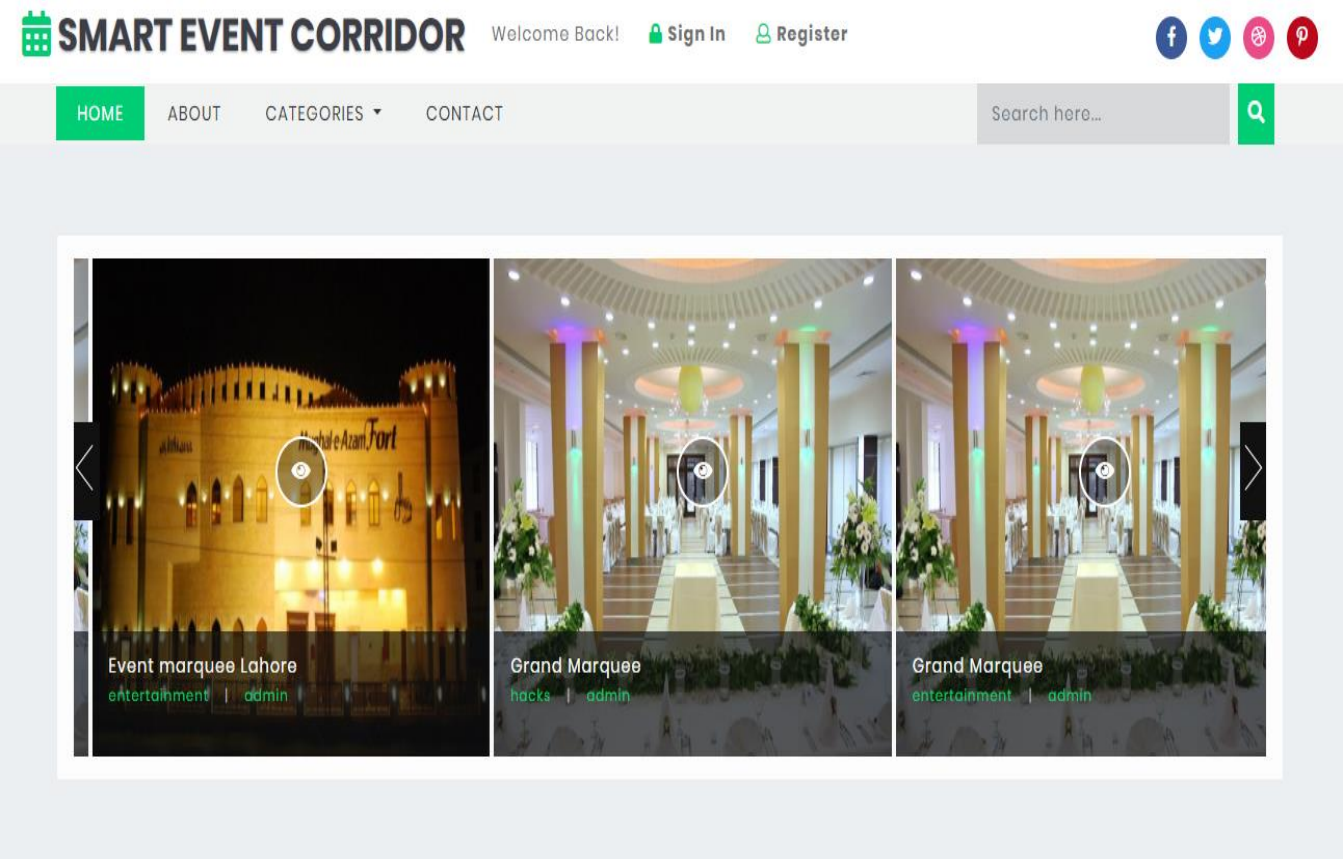
Following are the screenshots of the main pages.

2.3.1. User Interfaces

Screenshots

Following are the main screenshots of our application.

Home page



About us

About

Fatastic Blog|Blogging For Passion

This is a blog and content management system,You can easily setup your blog and customize it according to your needs.It is easy to use and manage.Multiple users can signup and be able contribute content.Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmodtempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodoconsequat. Duis aute irure dolor in reprehenderit in voluptate velit essecillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat nonproident, sunt in culpa qui officia deserunt mollit anim id est laborum.

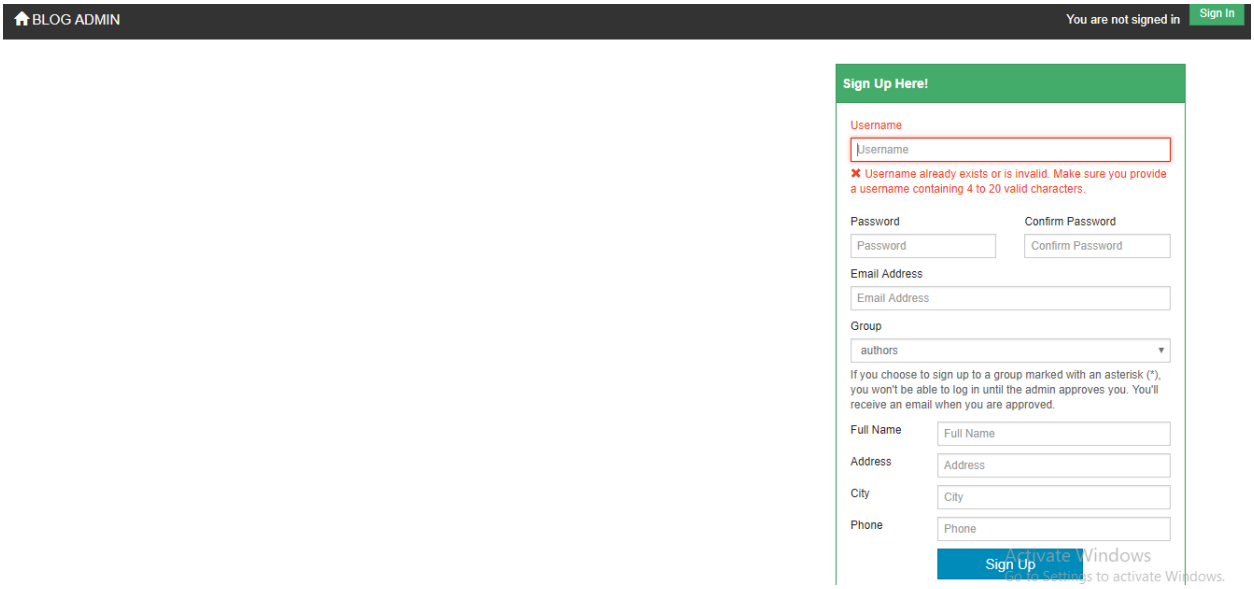
Categories

tricks	0
hacks	3
offers	1
promotion	2
devices	1
entertainment	3
hall1	0

Stay Connected

Twitter

Sign up


BLOG ADMIN
You are not signed in
Sign In
Sign Up Here!
Username
Username
Username already exists or is invalid. Make sure you provide a username containing 4 to 20 valid characters.
Password
Confirm Password
Password
Confirm Password
Email Address
Email Address
Group
authors
If you choose to sign up to a group marked with an asterisk (*), you won't be able to log in until the admin approves you. You'll receive an email when you are approved.
Full Name
Full Name
Address
Address
City
City
Phone
Phone
Sign Up
Activate Windows

Hardware Interfaces

With bootstrap installed in our project, we have made it device friendly. The product can be accessed from all the computing devices with various screen dimensions such as PC, laptop, smartphone, etc.

2.3.2. Software Interfaces

Our product can run in a web explorer such as internet explorer, google chrome, safari, etc. However outdated explorers such as IE5, opera old etc. are unable to work properly with the advanced scripts used in our project and hence it is recommended to use a latest browser for the use of our product.

For the browser to run correctly, it is necessary that the system requirements should be appropriate and a browser should be used that is in accordance with the system.

With the points mentioned above, it is not hard to access the product with any device.

2.3.3. Communications Interfaces

The Smart Event Corridor application will have a network server that is web-based and created using the PHP language. The server exists to retrieve information from the database and calculate payments. The product also calls for a database system that stores user information and transaction history between users. The HTTP server will use a push protocol to push notifications of updates onto the Android phones. Furthermore, whenever a user opens the Smart Event Corridor app from their phone, a pull protocol will be used to retrieve and sync the latest transaction updates from the server.

2.4. System Features

The database allows the vendor to upload information regarding his/her menu. The users can access this data using Smart Event Corridor forms. Using the information stored in the database, Smart Event Corridor works with various features.

2.4.1. Halls page

2.4.1.1 Description and Priority

A single page with all the venues from different vendors. Using this feature, the users can surf through different venues randomly. This is of high priority. (10/10)

2.4.1.2 Stimulus/Response Sequences

At the index page, the navbar shows the tab for venues. The link opens a page designed for venues listed orderly. The user can glance through these and open the link to one desired. This link will take the user to the single page of that specific venue.

2.4.1.3 Functional Requirements

The browser should be able to follow the links on mouse click in order to respond to user actions.

2.4.2 Venue Search

2.4.2.1 Description and Priority

A single page with all the venues from different vendors. Using this feature, the users can surf through different venues randomly. This is of high priority. (10/10)

2.4.2.2 Stimulus/Response Sequences

At the index page, the navbar shows the tab for venues. The link opens a page designed for venues listed orderly. The user can glance through these and open the link to one desired. This link will take the user to the single page of that specific venue.

2.4.2.3 Functional Requirements

The browser should be able to follow the links on mouse click in order to respond to user actions.

2.4.3 Registration

2.4.3.1 Description and Priority

A single page with all the venues from different vendors. Using this feature, the users can surf through different venues randomly. This is of high priority. (10/10)

2.4.3.2 Stimulus/Response Sequences

At the index page, the NAVBAR shows the tab for venues. The link opens a page designed for venues listed orderly. The user can glance through these and open the link to one desired. This link will take the user to the single page of that specific venue.

2.4.3.3 Functional Requirements

The browser should be able to follow the links on mouse click in order to respond to user actions.

2.4.4 Bookings

2.4.4.1 Description and Priority

A single page with all the venues from different vendors. Using this feature, the users can surf through different venues randomly. This is of high priority. (10/10)

2.4.4.2 Stimulus/Response Sequences

At the index page, the NAVBAR shows the tab for venues. The link opens a page designed for venues listed orderly. The user can glance through these and open the link to one desired. This link will take the user to the single page of that specific venue.

2.4.4.3 Functional Requirements

The browser should be able to follow the links on mouse click in order to respond to user actions.

2.5. Other Nonfunctional Requirements

2.5.1. Performance Requirements

The product should be responsive with appropriate computing system and a working internet connection.

2.5.2. Safety Requirements

With the use of PHP language, the product is made very secure with the vendor/user data safe.

2.5.3. Security Requirements

Users and vendors should be very while setting up the password. The password should be a strong one. Moreover, the applicants shall be very cautious not to share their password online or at any uncertain times.

2.5.4. Software Quality Attributes

The data should be authentic where the system is quick to respond.

2.5.5. Business Rules

The initial setup of vendors should be free of cost. Once the setup is running, the service fee shall be implied to all the vendors. This system shall be free of cost

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

Analysis Document

This document comprises of details ranging from the user interfaces to the backend coding. It can be used by both, the users of the product as well as the developers so as to learn the different tactics we have used in our project that may result helpful in their work.

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With all those technologies used in our project, It would be worthwhile for the developers to give it a glance and study the related topics of interest for the sake of knowledge or to use them in their own products

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This document deals with all the basic details on the working of the product. Hence, it would be better for the testers to go through this.

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Product Scope

As the need for event venues is increasing, we are working over the various aspects to make our product everlasting and sustainable. Our product till today is the one that satisfies all user requirements and it covers all the basic requirements.

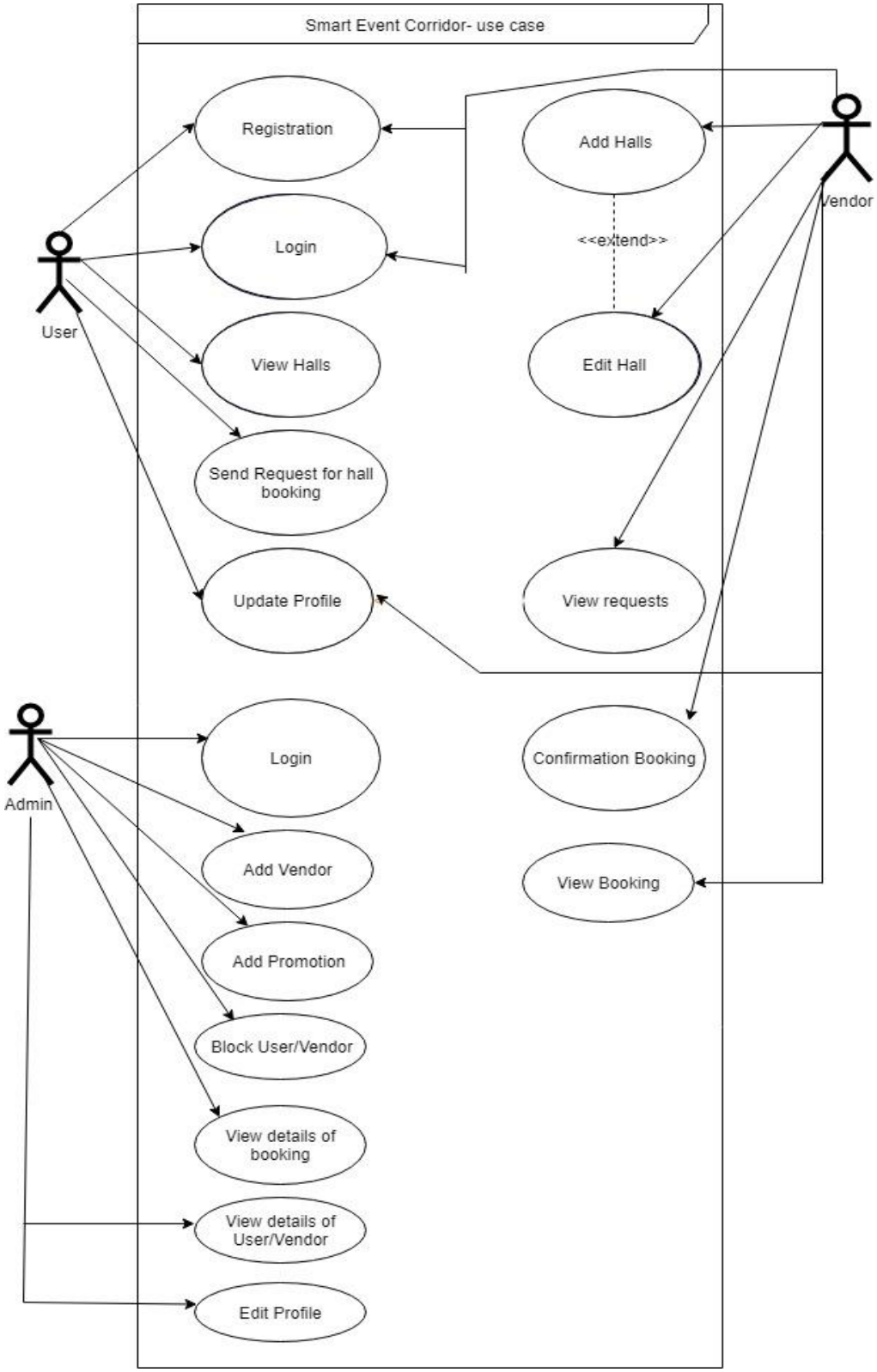
Vision

This project is to assist superior human beings. We rise by lifting others

3.1. Use Case Model

Diagram given below shows a set of use cases and actors and their relationships. Actor can be a user or any external system. Given diagram shows a set of sequence of actions, that Web based project perform that yields an observable value to an actor or users. Administrator provides information about local vendors and users receive information or services provided by those vendors.

3.2. Fully Dressed Use Cases



Use Case 1: Registration

Test Suit ID	TS001
Test Case ID	TC001
Actor	Unregistered User
Test Case Summary	To verify unregistration form register users
Related Requirement	New user should be able to signup
Prerequisites	None
Test Procedure	1) Open Website, click register 2) Insert name, email, username, password, gender and select behavior on website as customer or agent. 3) Click on Register.
Test Data	Name: Khalid Email: khalid33@gmail.com Username:khalid33 Password: kh@lid Gender: M Behavior: Customer
Expected Results	If email is in incorrect format, system shows error. If username is not entered, system shows error. If password is blank system shows error. If name is not entered, system shows error.

Actual Result	Test Successful
Status	Pass
Created By	Fahad Aslam

Use Case 2 (User login):

Test Suit ID	TS002
Test Case ID	TC002
Actor	Register User
Test Case Summary	To verify that login button functions correct.
Related Requirement	None
Prerequisites	User must be registered
Test Procedure	1) Open Website, click login 2) Enter username and password. 3) Click on login button.
Test Data	Username:khalid33 Password: kh@lid
Expected Results	1) If the username and password is valid, user will be login and redirect to homepage. 2) When user enter invalid details, system shows validation error and ask user to insert valid information.

	3) When User enters a wrong username then message show “invalid username”. 4) When User enters a wrong password then message show “invalid password”.
Actual Result	Test Successful
Status	Pass
Created By	Fahad Aslam

Use Case 3 (logout user)

Test Suit ID	TS003
Test Case ID	TC003
Actor	Register User
Test Case Summary	To verify that logout button works fine upon click on it.
Related Requirement	login user logout.
Prerequisites	User must be registered
Test Procedure	1) Open Website, click login 2) Enter username and password. 3) Click on login button, browser some pages and then click on "Logout".

Test Data	Username:khalid33 Password: kh@lid
Expected Results	1) If the username and password is valid, user will be login and redirect to homepage. 2) When user enter invalid details, system shows validation error and ask user to insert valid information. 3) When User enters a wrong username then message show “invalid username”. 4) When User enters a wrong password then message show “invalid password”. 5) When user login and redirected to homepage, he will be logout upon click on logout and her session will be expired.
Actual Result	Test Successful
Status	Pass
Created By	Zia

Use Case 4 (agent data insertion):

Test Suit ID	TS004
Test Case ID	TC004

Actor	agent
Test Case Summary	To verify that agent can add records.
Related Requirement	agent
Prerequisites	agent must be login with valid username and password.
Test Procedure	1) Open Website, click login 2) Enter agent username, password and login, go to dashboard. 3) Click on left panel and add hotel.
Test Data	Username:agent99 Password: iamag3nt
Expected Results	1) Agent can add his hotel by selecting country, province, city area. 2) Agent can add hall by selecting hotel and enter pics and address.
Actual Result	Test Successful
Status	Pass
Created By	Zia

User Case 5 (Admin data insertion)

Test Suit ID	TS005
Test Case ID	TC005
Actor	admin
Test Case Summary	To verify that admin can add records.
Related Requirement	admin
Prerequisites	admin must be login before doing this test.
Test Procedure	1) Open Website, click login 2) Enter agent username, password and login, go to dashboard. 3) Click on left panel icons one by one.
Test Data	Username:admin Password: admin123
Expected Results	1) Admin can add countries. 2) Admin can add provinces. 3) Admin can add cities. 4) Admin can add area.
	5) Admin can add hotel. 6) Admin can add hall. 7) Admin can approve booking.
Actual Result	Adding hotel makes system crash. Bug found.

Status	Fail
Created By	Fahad Aslam

Use Case 6 (Customer Booking Hall)

Test Suit ID	TS006
Test Case ID	TC006
Actor	customer
Test Case Summary	To verify that customer can book hall.
Related Requirement	customer
Prerequisites	Customer must be login.
Test Procedure	1) Select Country, Province and City. 2) Select area and date. 3) Click on Booking.
Test Data	Username:raheel Password:rah33l
Expected Results	1) Customer can book halls on selected date.
Actual Result	Test Successful
Status	Pass
Created By	Fahad Aslam

Use Case 7 (User Accounts Control System)

Test Suit ID	TS007
Test Case ID	TC007
Actor	admin
Test Case Summary	To verify that admin can change user accounts records.
Related Requirement	admin
Prerequisites	Admin must be login
Test Procedure	1) login with admin details. 2) Go to dashboard and select users from left panel.
Test Data	Username:admin Password:admin123
Expected Results	1) Admin can change, add, delete users account. 2) Admin can change details of user accounts e.g email, user name, gender or behavior on website.
Actual Result	Test Successful
Status	Pass
Created By	Muhammad Naeem

Use Case 8 (verify data inserted is working correctly)

Test Suit ID	TS008
Test Case ID	TC008
Actor	admin, user, agent
Test Case Summary	To verify data inserted in website and database works correctly.
Related Requirement	admin, user, agent
Prerequisites	Admin, user, agent must be login
Test Procedure	1) login with valid details. 2) Go to home page and navigate to search.
Test Data	Username:admin Password:admin123
Expected Results	1) Admin, user and agent can view that halls are available for booking on selected dates.
Actual Result	Test Successful
Status	Pass
Created By	Fahad Aslam

Chapter 4

System Design

Chapter 4: System Design

Following is the system design, explained in various discrete steps for clear grip and understanding.

4.1. Architecture Diagram

This project is built on a simple and basic architecture. The homepage shows links to the main areas of the page such as halls and bookings. Users can visit those pages to view and or book halls. Whereas the vendors have the option to view/edit/delete data/information/bookings.

Architecture

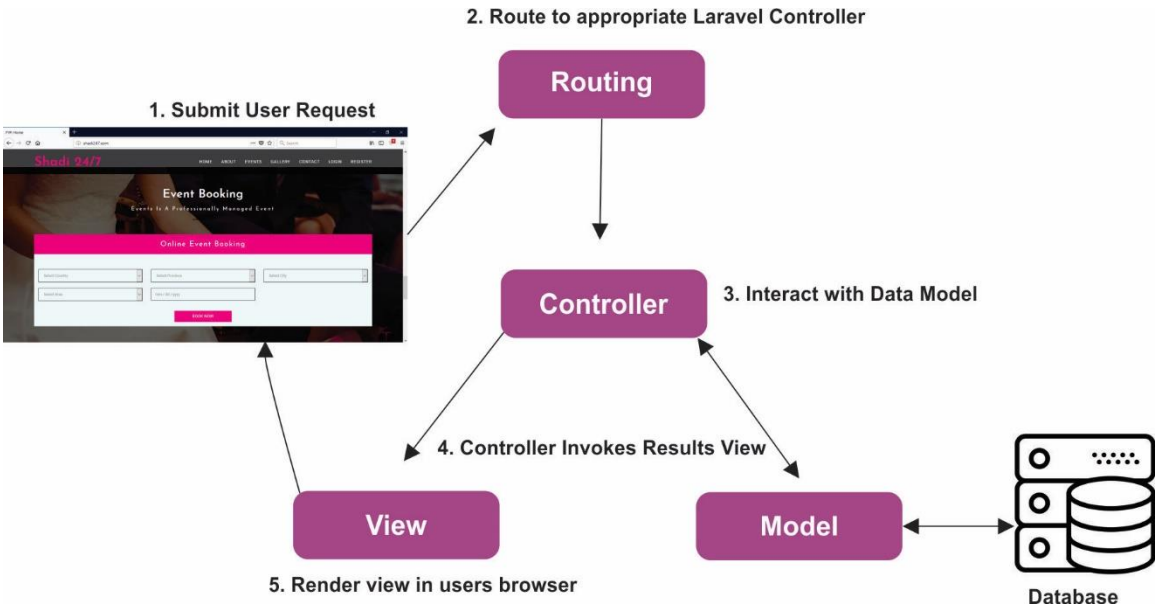
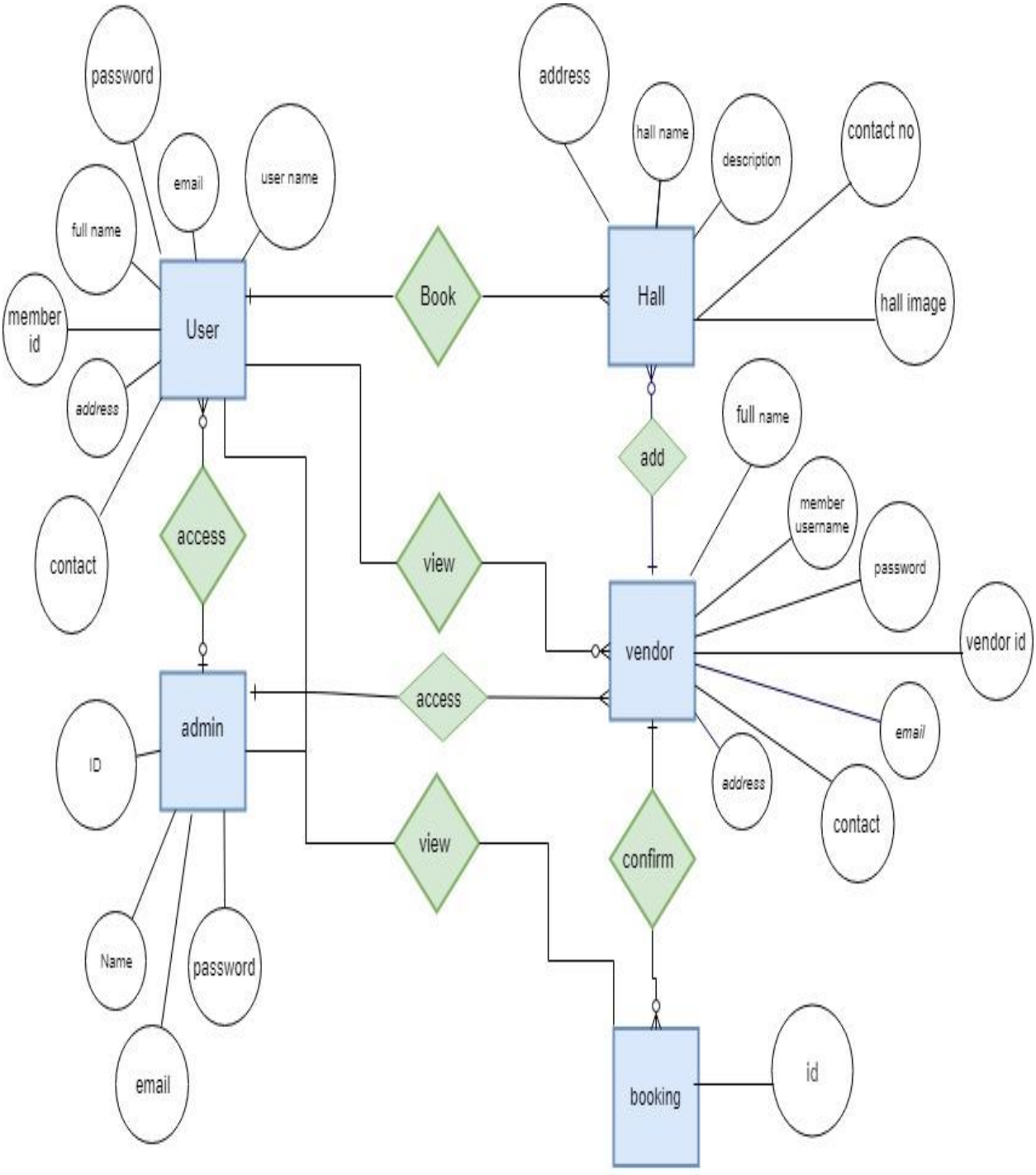


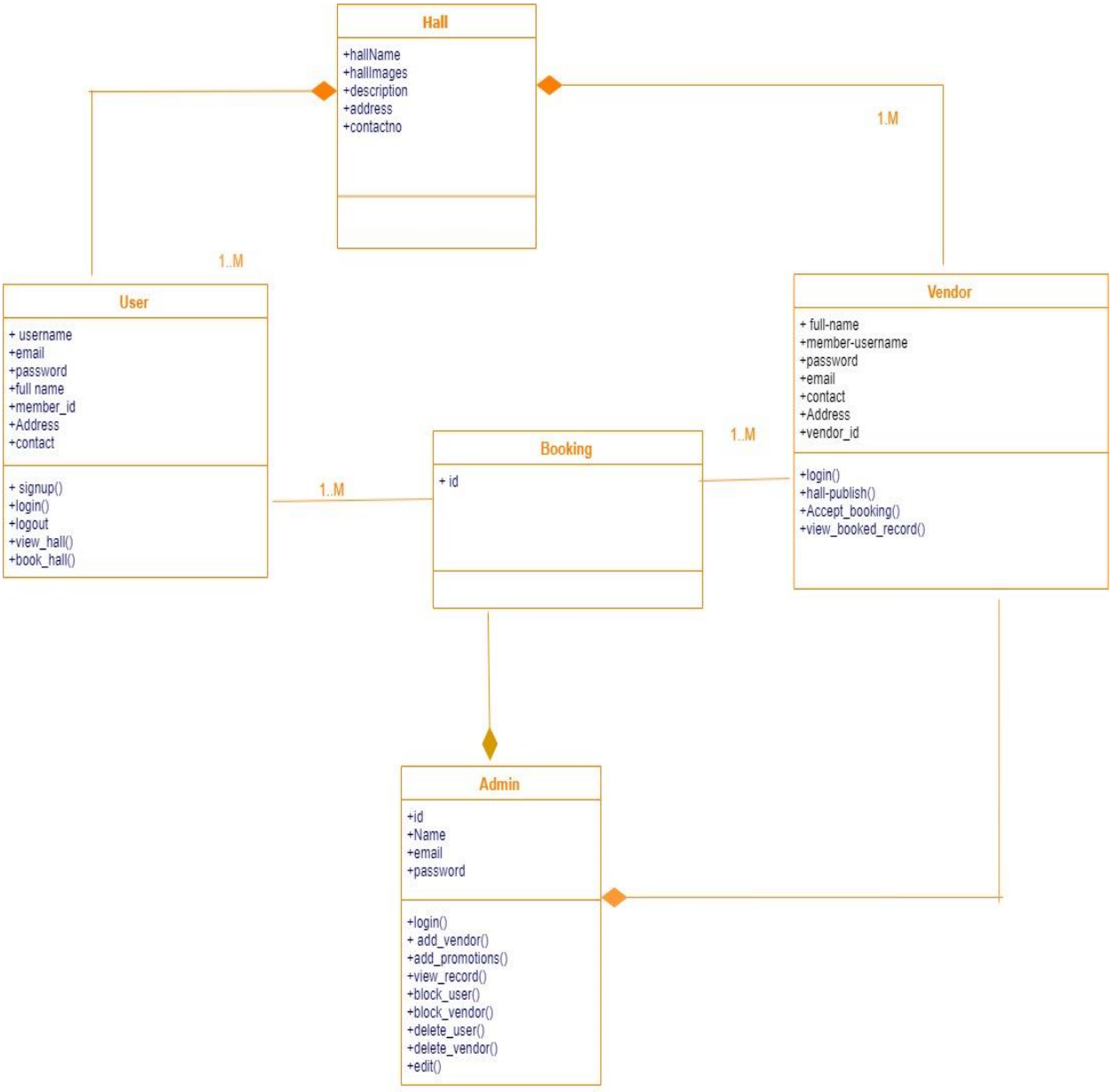
Figure 1: Architecture

4.2. Entity Relationship Diagram with data dictionary



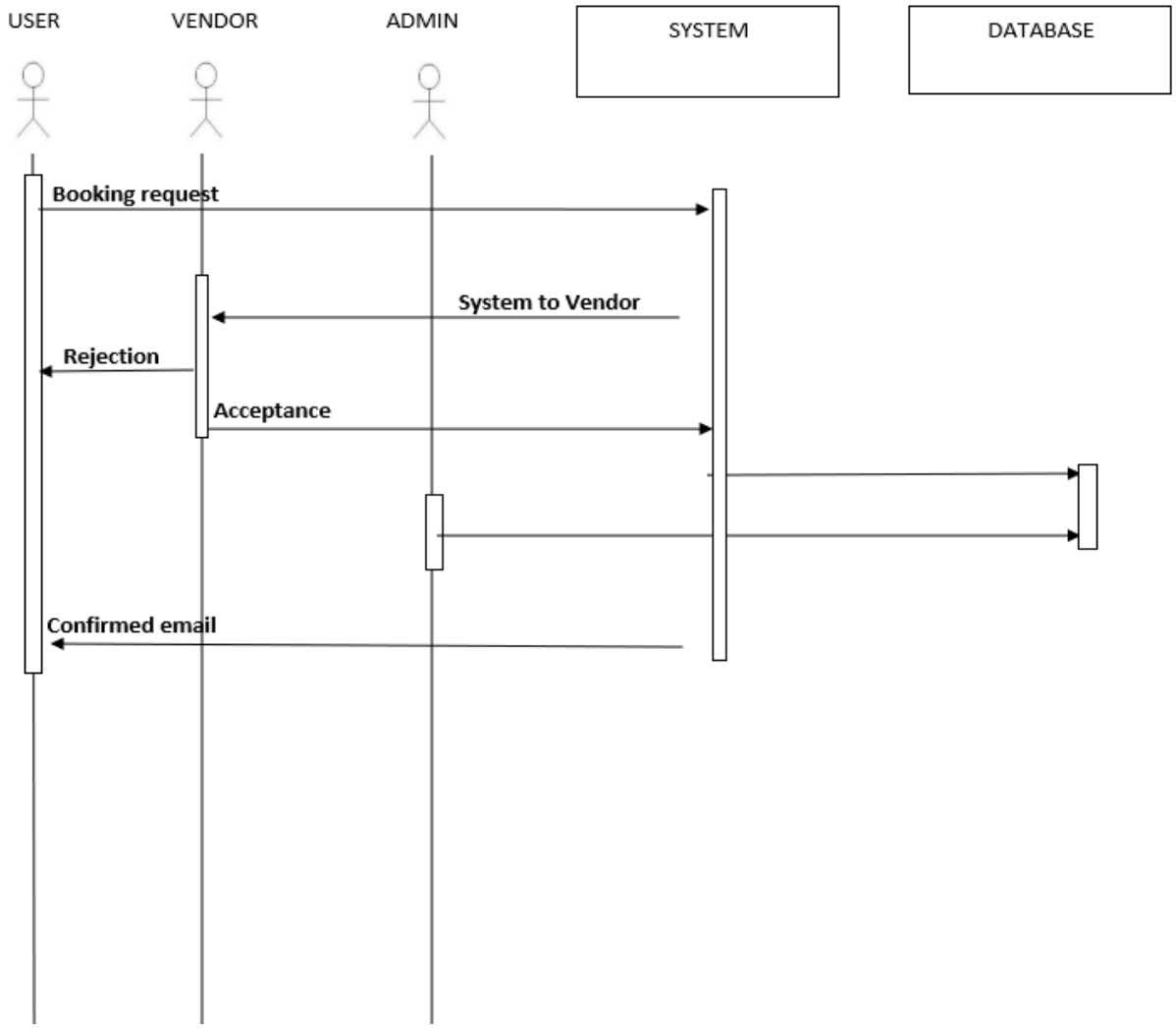
smart event corridor Erd

4.3. Class Diagram



Smart Event corridor - Class Diagram

4.4. Sequence / Collaboration Diagram



4.5. Operation contracts

4.6.1 Operation Contract 1: Register user

Name: Register.

Responsibilities: To register the new user.

Cross References: Use case: Register.

Exceptions: None.

Preconditions: Register interface must be opened and user must enter valid information.

Post conditions: Welcome screen showed to the user.

4.6.2 Operation Contract 2: Sign in User

Name: Signin.

Responsibilities: A user is logged in.

Cross References: Invalid username or password

Exceptions: None.

Preconditions: User must have account.

Post conditions: Successfully signin.

4.6.3 Operation Contract 3: Sign out User

Name: Sign out.

Responsibilities: user is logged out.

Cross References: Use Case: Sign_out.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Log out successfully.

4.6.4 Operation Contract 4: View Details

Name: View details.

Responsibilities: user must login and select desired fields.

Cross References: Use Case: Select fields.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: View wedding halls successfully.

4.6.5 Operation Contract 5: Add Countries

Name: Add Countries.

Responsibilities: Admin must login.

Cross References: Use Case: Add Countries.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Country added successfully.

4.6.6 Operation Contract 6: Add Province

Name: Add Provinces.

Responsibilities: Admin must login.

Cross References: Use Case: Add provinces.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Province added successfully.

4.6.7 Operation Contract 7: Add City

Name: Add Cities.

Responsibilities: Admin must login.

Cross References: Use Case: Add cities.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Cities added successfully.

4.6.8 Operation Contract 8: Add Area

Name: Add Area.

Responsibilities: Admin must login.

Cross References: Use Case: Add Area.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Area added successfully.

4.6.9 Operation Contract 9: Add Hotel

Name: Add Hotel.

Responsibilities: Admin, agent must login.

Cross References: Use Case: Add hotel.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Hotel added successfully.

4.6.10 Operation Contract 10: Add Hall

Name: Add Hall.

Responsibilities: Admin, agent must login.

Cross References: Use Case: Add hall.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Hall added successfully.

4.6.11 Operation Contract 11: Confirm/reject Booking

Name: Confirm Booking.

Responsibilities: Admin must login.

Cross References: Use Case: Confirm/reject booking.

Exceptions: None.

Preconditions: Must be logged in.

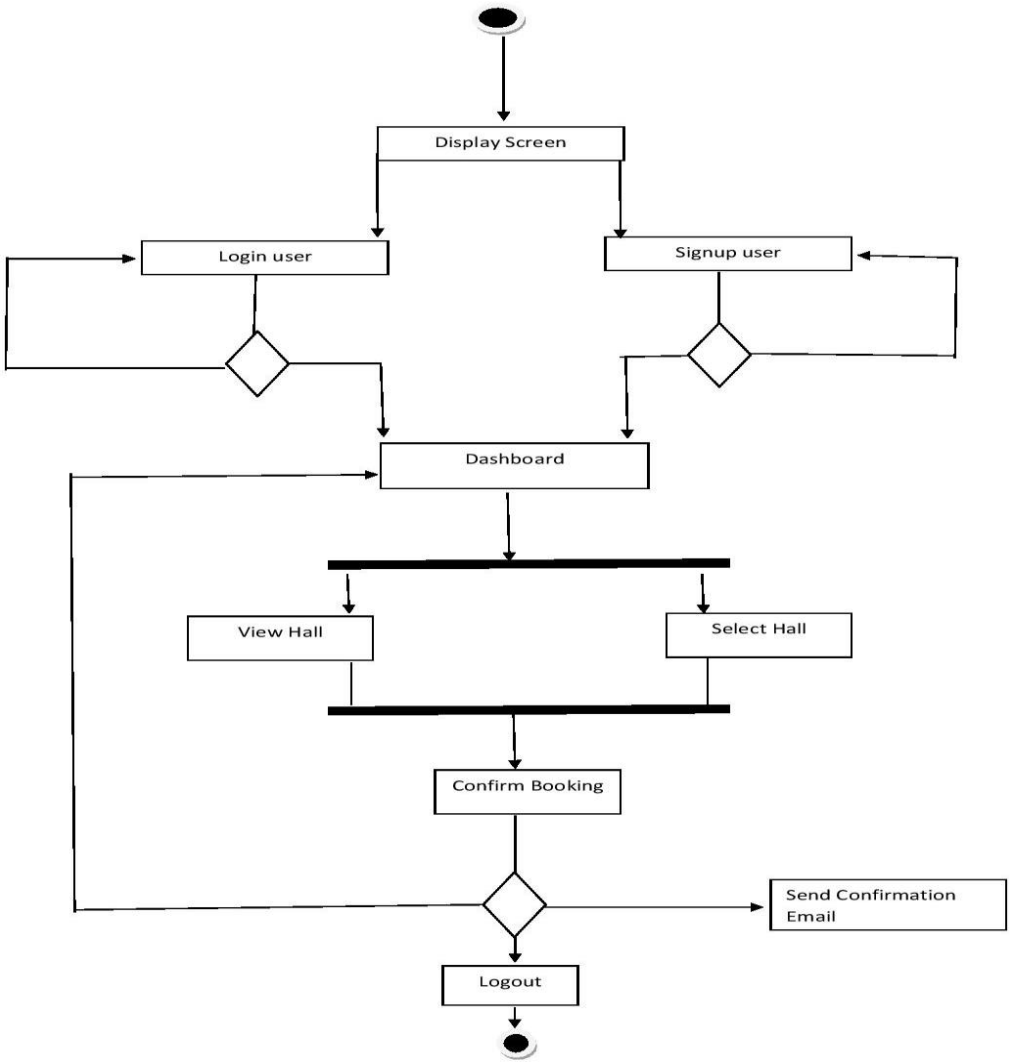
Post conditions: Booking confirmed/rejected successfully.

4.6. Activity Diagram

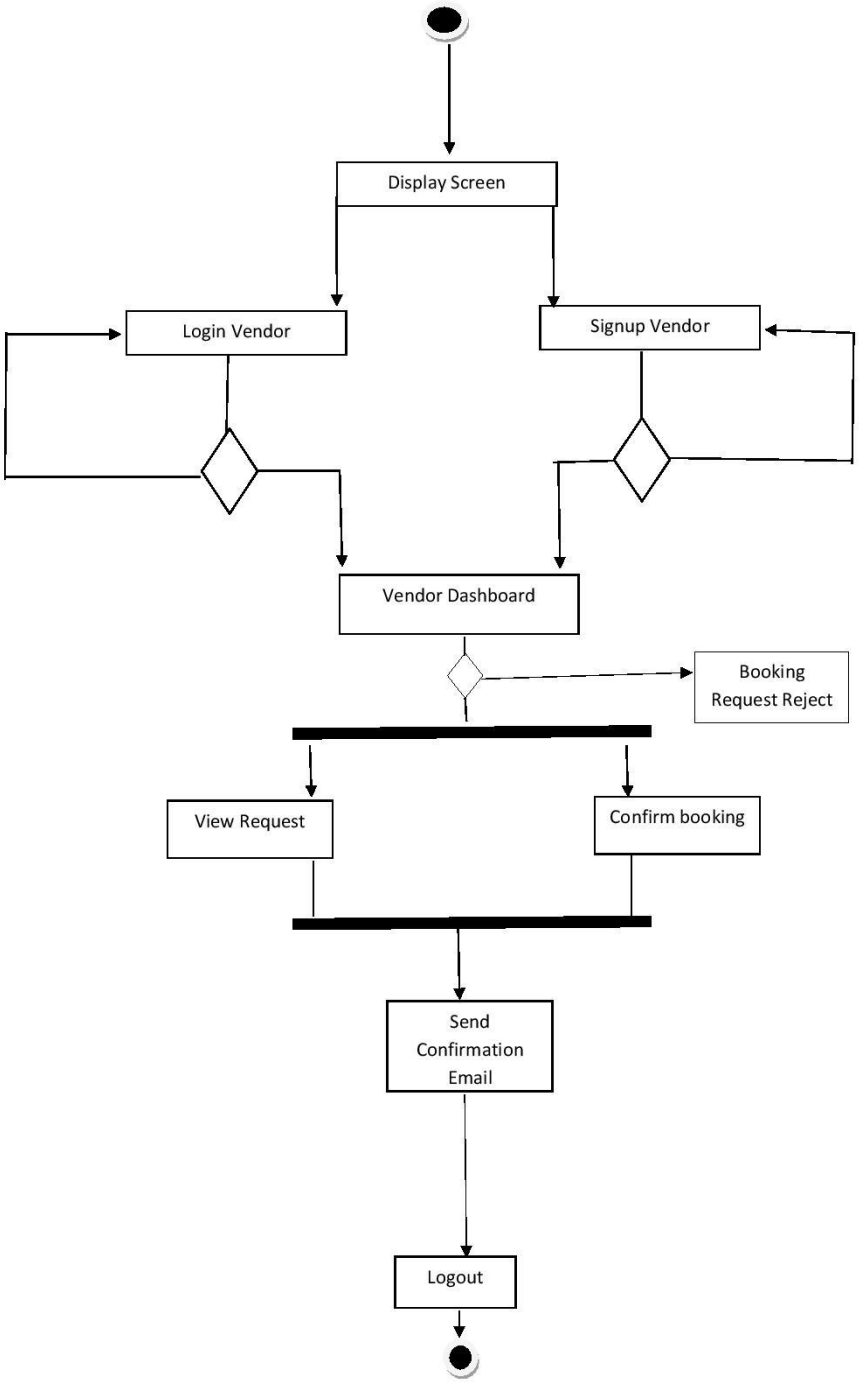
The user can register, book halls, do payment online and give reviews after experience.

Below is an activity diagram for the above discussed concept.

User Activity

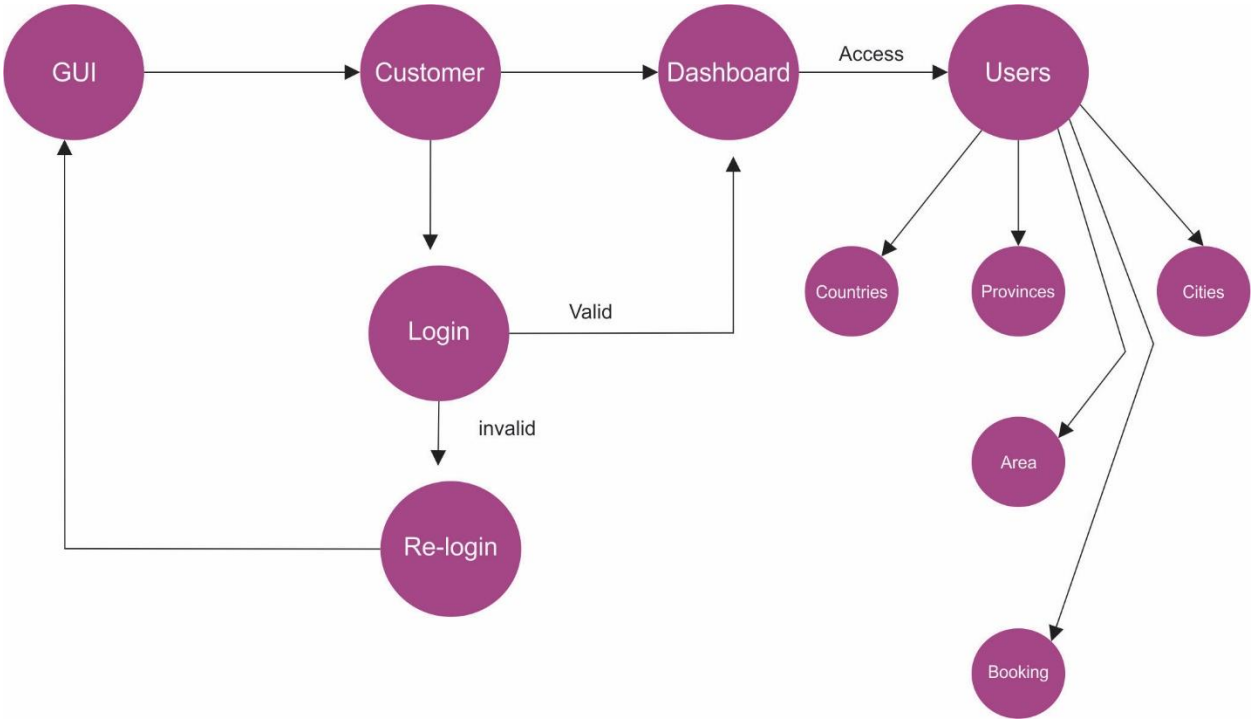


Vendor Activity



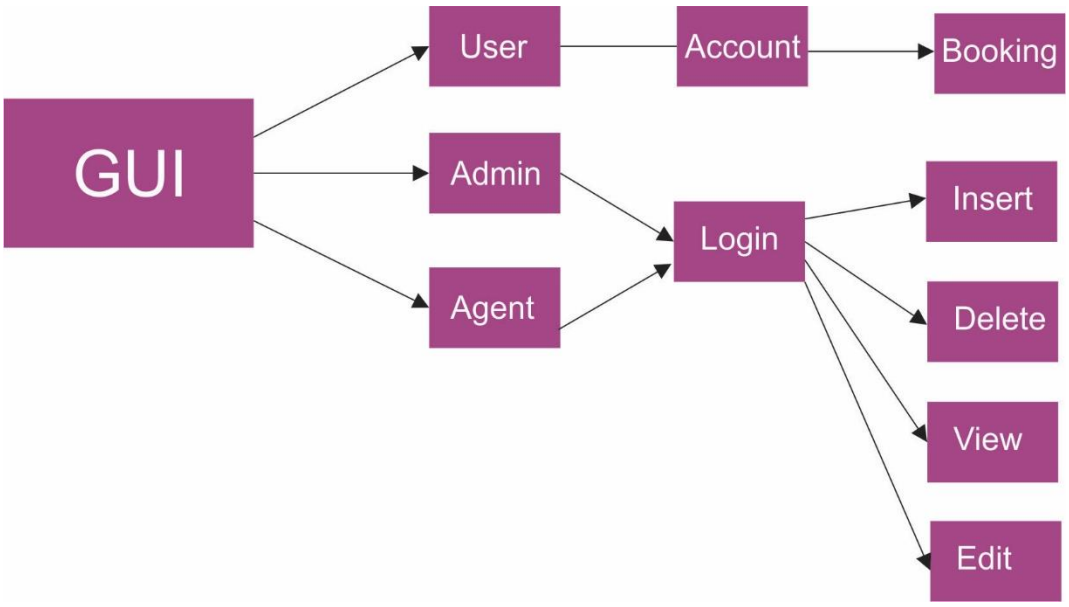
State Transition Diagram

Following is the transition diagram for the booking process.



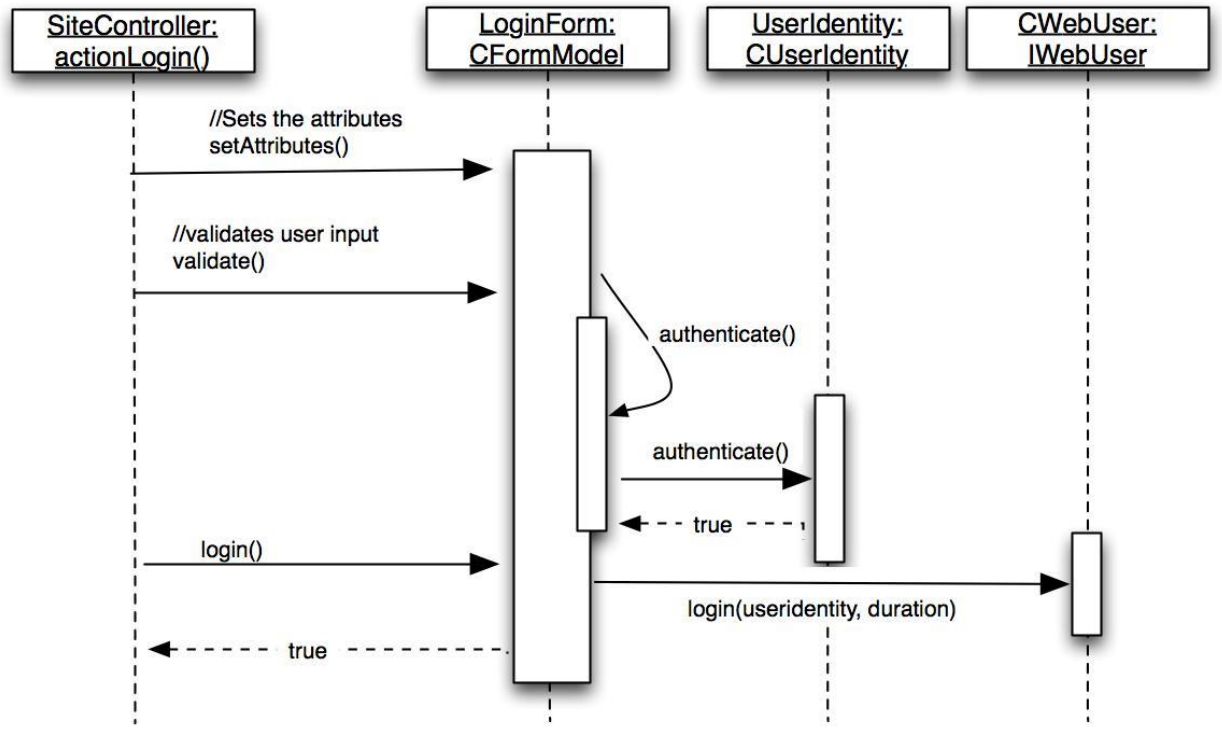
4.7. Component Diagram

Component diagram is a special kind of diagram in UML. The purpose is also different from all other diagrams discussed so far. It does not describe the functionality of the system but it describes the components used to make those functionalities.

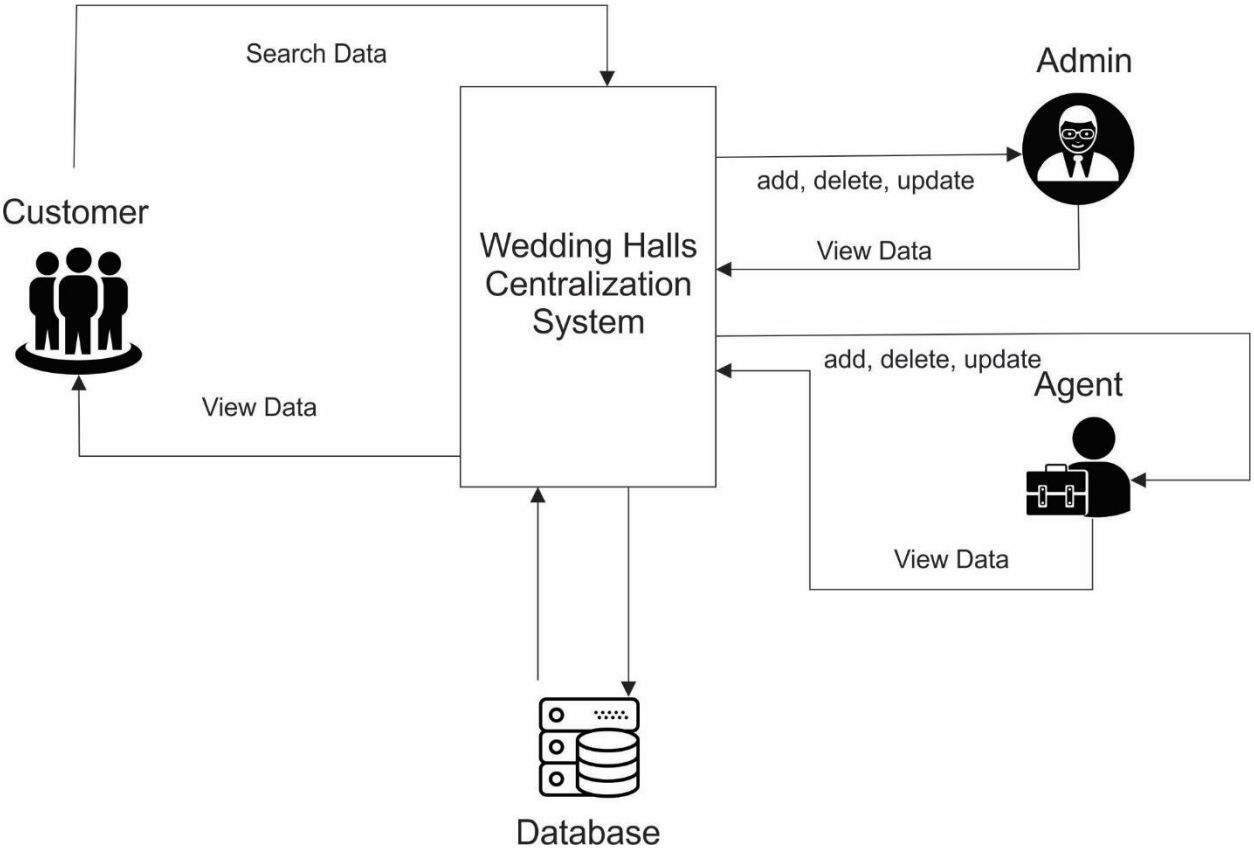


Deployment Diagram

The term Deployment itself describes the purpose of the diagram. Deployment diagrams are used for describing the hardware components, where software components are deployed. Component diagrams and deployment diagrams are closely related



4.8. Data Flow diagram [*only if structured approach is used - Level 0 and 1*]



Chapter 5

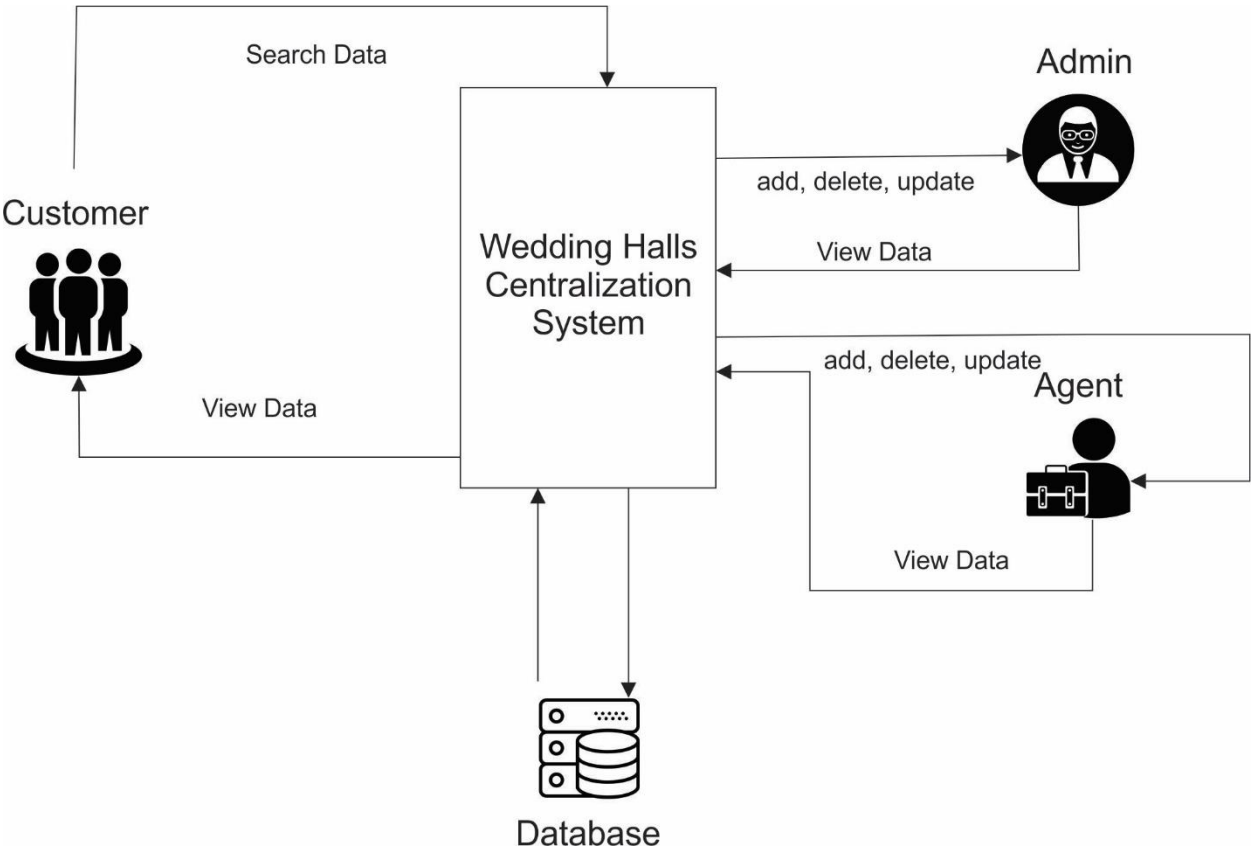
Implementation

Chapter 5: Implementation

In this chapter we shall discuss the core methodology to make this project up and running.

5.1. 5.1. Important Flow Control/Pseudo codes

Following is our flow chart.



5.2. Components, Libraries, Web Services and stubs

Components

Our application is considered of two main components.

1. **Front end**

Front-end is made user friendly and good looking by using the bootstrap (version 4.0). From homepage to contact page, we have gave our project an awesome look without compromising over users' comfort. For example with bootstrap we have built a mobile first layout. This means that our application will be compatible in 99% of the browsers as well as various screen dimensions, resolutions and sizes.

2. Back end

We have used core php for our back end programming. As php is an open source language, there are many developments day to day in this field and we can enhance our application with the passage of time.

5.3. Deployment Environment

Smart Event Corridor uses cloud computing to connect users to service providers. Each venue has its specific page with the reference to the owner and other related information. The user can select through various options, finalize a venue and do online booking. All of this is done by the database at our servers where the vendors as well as the customers can interact.

5.4. Tools and Techniques

Languages:	Tools
HTML	NOTEPAD++
BOOTSRAP	XAMPP
PHP	
MYSQL	

5.5. Best Practices / Coding Standards

We have first made out a layout, a road map of the site and them by using bootstrap libraries we have constructed it a way that catches the eye of the user. After completing the front end, we made it working integrating it with PHP.

5.6. Version Control

This is Version 1. Version 2 may be introduced later on if further enhancements are required.

R.NO	DATE	DISCUSSION	SIGNATU
1	25-04-19	Docoment Template discussion	
2	04-05-19	Requriment gathering discussion	
3	05-05-19	Improvement of requriment gathering	
4	06-05-19	Discussion of Design	
5	07-05-19	Imrovement of Design	
6	08-06-19	Discussion of project plan	
7	09-06-19	Use case bulid	
8	10-06-19	Improvement of use case	
9	11-06-19	Diagram Build	
10	12-06-19	Discussion Of WBS	
11	13-07-19	Improvement of WBS	
12	14-07-19	Test Case build	
13	15-07-19	Improvement of test case Bulid	
14	16-07-19	Final Document discussio	

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

Front end

Front end testing includes viewing this application in different devices with different screen sizes, for example laptops, desktops, smartphones etc.

Back end

Back end coding is made authentic by php form validation, password confirmation, reset password, dashboard, etc.

6.1. Use Case Testing

Following are the most important use case testing

1. **Form validation**

The data entered by users is authentic, for example valid email id, valid cell number, etc,

2. **Database store and fetch**

Data uploaded in database from the vendors shall be stored in DB successfully and shall be viewed (retrieved) when needed.

3. **Dashboard update**

Signed up users and vendors are allocated their dashboard where they can see their actions. For example, a user clicks for booking an app. This action shall be seen in his dashboard as well as in vendor's dashboard. The vendor is then required to approve or reject the booking. All these processes will be accomplished if the user actions are updated quickly.

4. **Application update**

If the vendor approves the booking for a specific time, it shall not be available for booking in that time slot or a vendor may edit his features and pricing of venue. The user may only benefit from the app when the application is updated without any delay.

6.2. Equivalence partitioning

We have made the following partition testing for our application.

Mobile compatibility

To check if our application is compatible in mobile view.

User Actions

Form submitting and the record stored in database.

Database Actions

These include data fetching from the database upon user interaction and data update upon vendor interaction.

Notification & Updating

Venue booking by user is notified to the vendor and upon vendors approval, the user is notified.

6.3. Boundary value analysis

Equivalence testing fulfils the purpose of boundary value analysis (BVA) and thus BVA is no longer mandatory.

6.4. Data flow testing

Data flow testing is a family of test strategies based on selecting paths through the program's control flow in order to explore sequences of events related to the status of variables or data objects. Dataflow Testing focuses on the points at which variables receive values and the points at which these values are used.

Data Flow testing helps us to pinpoint any of the following issues:

- A variable that is declared but never used within the program.
- A variable that is used but never declared.
- A variable that is defined multiple times before it is used.
- Deallocating a variable before it is used.

In our application we have made data flow testing and achieved suitable results.

6.5. Unit testing

Unit testing is not applied on our application **.**

6.6. Performance testing

The performance of smart event corridor lies in quick response and updating the results. With php this has been made achievable. As soon as the user or vendor interacts, the data is instantly uploaded to database and next click shall provide results based on the changes.

6.7. Stress Testing

Stress testing has been made by huge uploading and testing validation all over the application. Stress testing (sometimes called torture testing) is a form of deliberately intense or thorough testing used to determine the stability of a given system or entity. It involves testing beyond normal operational capacity, often to a breaking point, in order to observe the results. Reasons can include:

- to determine breaking points or safe usage limits
- to confirm math model is accurate in predicting breaking-points/safe-usage limits
- to confirm intended specifications are being met
- to determine modes of failure (how exactly a system fails)
- to test stable operation of a part or system outside standard usage

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

Our project is a web application smart event corridor that provides users with details of event halls and also the option to book them online. In this report we have discussed all the details. From front end user interactions to dashboards, we have critically tested our application so as to make our system error free.

7.2. Achievements and Improvements

Our goal was to specify the most prominent factor that has been ignored, i.e, online event management portal. We have thus made a great achievement in making it worthwhile to fill the gap in market.

There are possibilities of upgrading this application and improvements can be made. The upgrading shall be done upon sponsorship only.

7.3. Critical Review

This application has the following important points:

1. Easy to understand road map and user interface
2. Space for vendors
3. B2C communication.
4. Secure database
5. Instant updating
6. Misc.

7.4. Lessons Learnt

From this we have learnt how to manage work in a group by assigning tasks to group members and dividing the work equally. This project has also helped us improve our capabilities and taught us how to work under stress. Task completion in the given deadline and up to the mark was the most valuable lesson we learnt in this project.

7.5. Future Enhancements/Recommendations

This application uses imaginary data for the demo purposes. Once the application is ready and out to be launched, we will visit event halls physically and gather real time data from them to put in our application.

Secondly, the application has not yet been published. This shall be published online upon sponsorship in future.

Last but not the least, user interests should be kept in mind while redesigning a platform such as this.

Appendix A: Information / Promotional Material

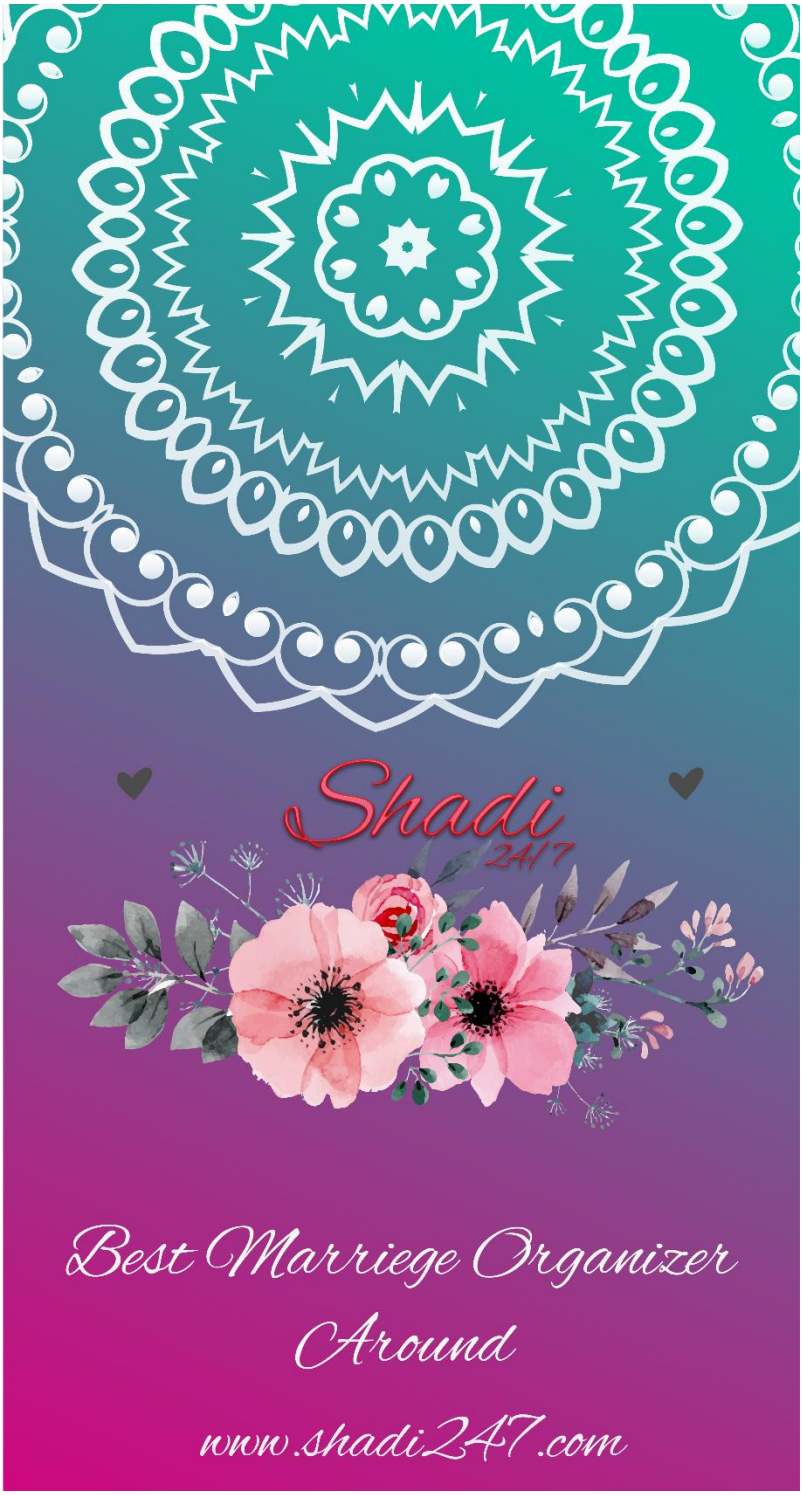
Advertisement and promotion is very essential to run a successful business in this era. It includes digital media, print media and social media.

A.1. Broacher

A.2. Flyer

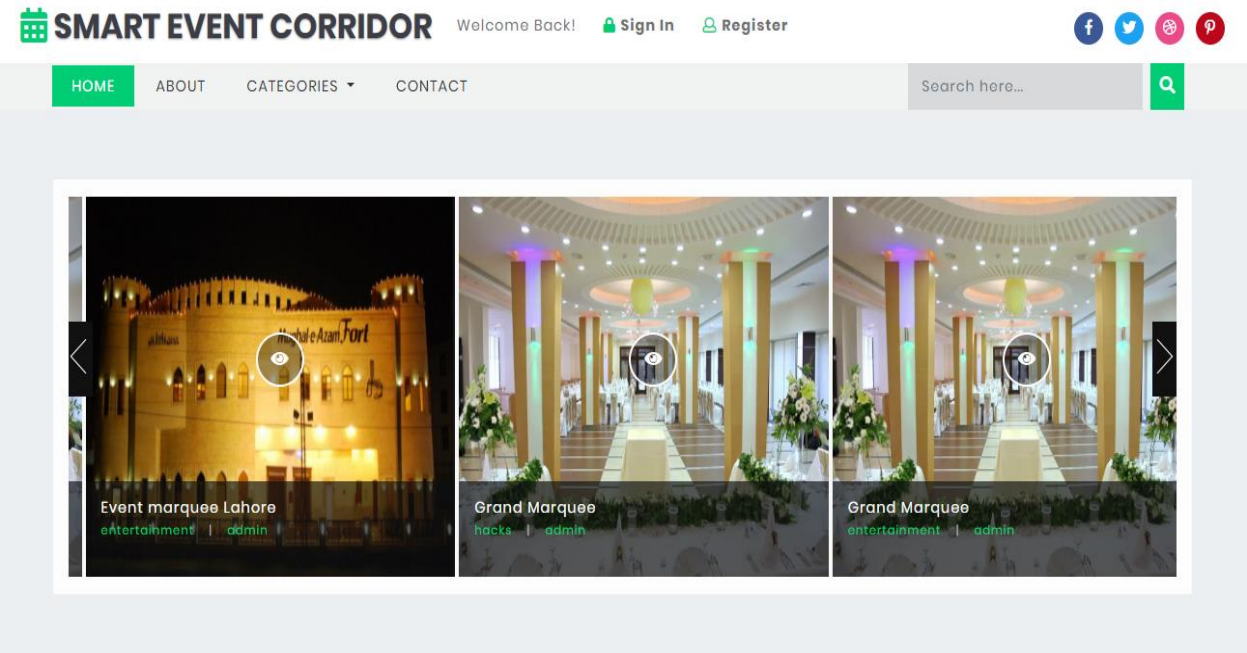

Shadi
24/7
Booking of Hall for Any Event at Home
Search Nearby Halls
Search which Halls are Available
of Specific Dates
www.shadi247.com
Shadi
24/7

A.3. Standee

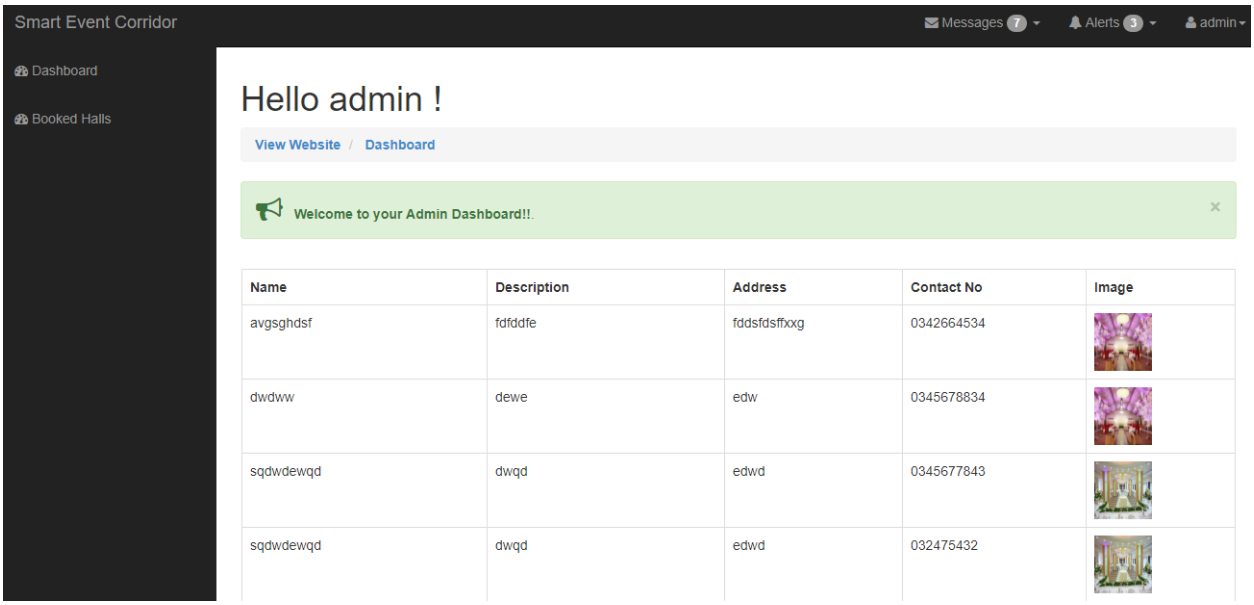


A.4. Visiting Card

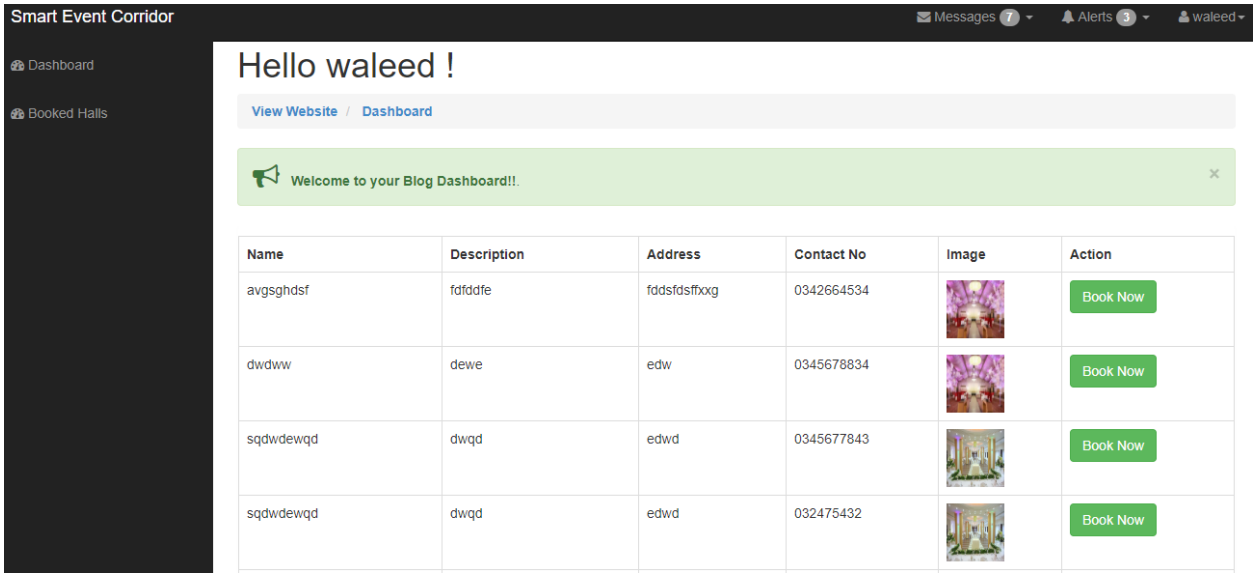
A.5. Website Screen Shot:



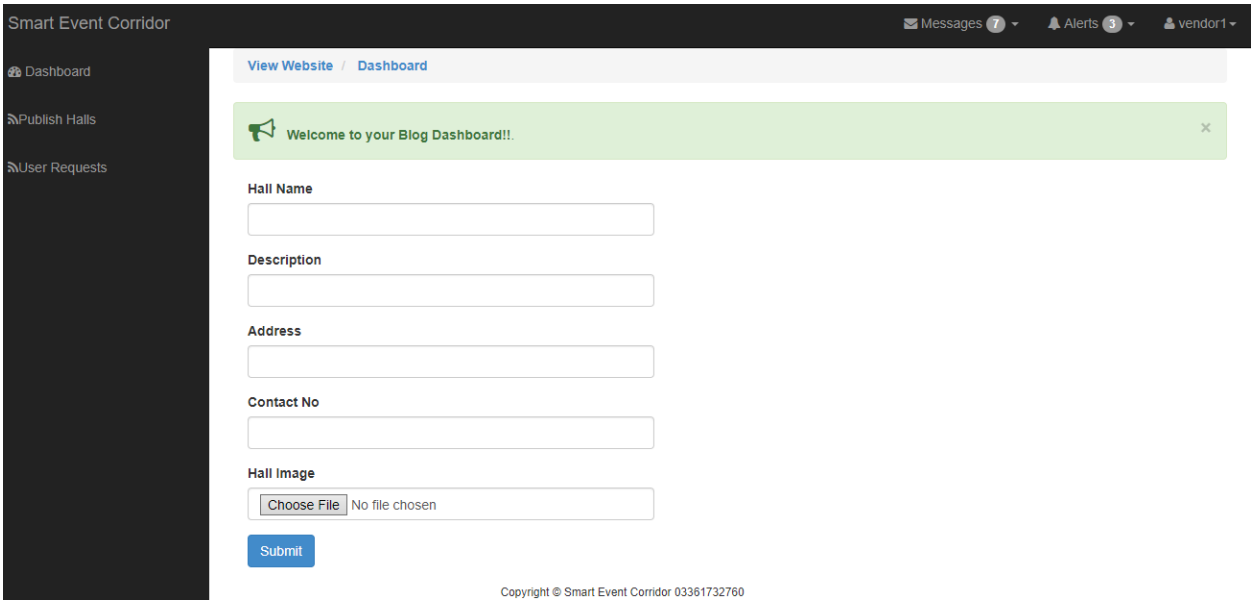
A.5.1. Admin Panel Screen Shot:



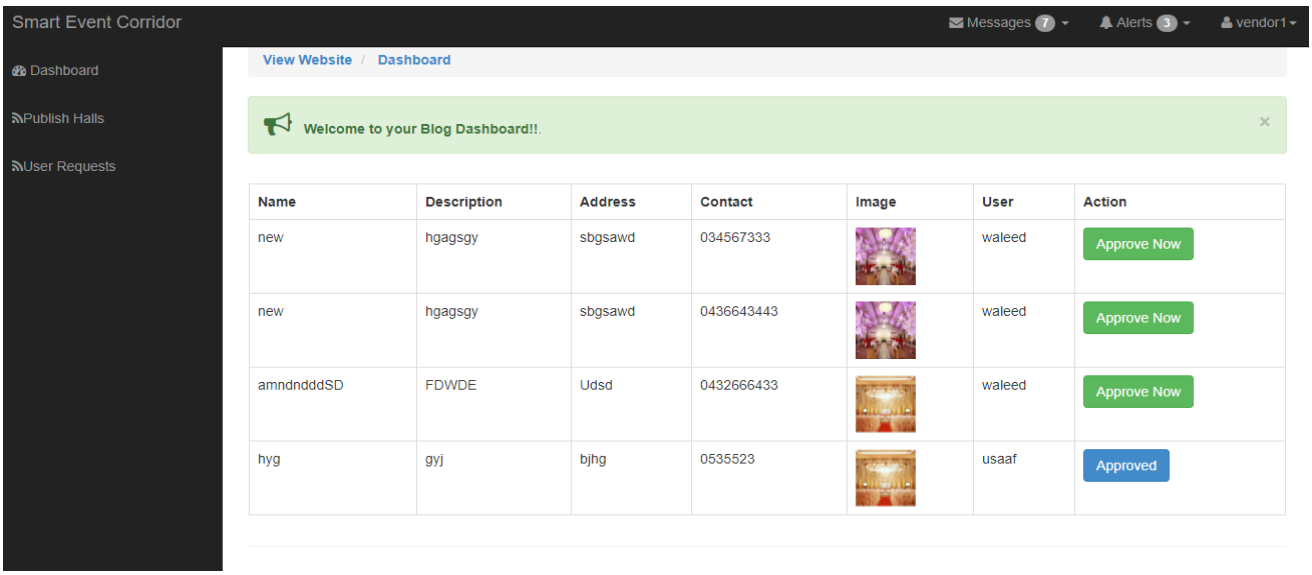
A.1.1.1. Users Panel Screen Shot:



A.1.1.2. Adding Halls Screen Shots:



A.1.1.3. Approve Booking Screen Shots



Appendix [no.]: Appendix Title

User Manual

Get Register by clicking the button of Register fill the valid information to book hall.

View halls on Dashboard where various hall adds are displaying.

Select by click button to view hall details location, images etc.

After viewing hall, you can request of booking to vendor.

Hall will be booked after approval of vendor.

Trust building Factors in https://shadi247.com Please check the elective that applies for you.

(A). Security (secure browsing strategy). [ ] (b). Protection (about individual data). [ ] (c).

Certifications. [ ] (d). Client benefit [ ] (e). Conveyance time. [ ] (f). Nature (with mark). [ ] (g).

Cost. [ ] (h). Data (about the organization you are managing). [ ]

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Reference and Bibliography

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