###### UOG FINAL BLUE NEW TAG **Department of Information Technology**

University of Gujrat

***Event Scheduling System***

**Submitted By:**

|  |  |
| --- | --- |
| **M. Talha Tarar** | **16491556-013.** |
| **M. Hamza Javed**  **Ahmed Jamal** | **16491556-023.**  **16491556-040.** |

**Supervised By:**

**Mam Sabiqa Ashraf.**

## STATEMENT OF SUBMISSION

This is certified that **M. Talha Tarar** Roll No. **16491556-013, Muhammad Hamza Javed** Roll No.**16491556-023** and **Ahmed Jamal** Roll No. **16491556-040** has successfully completed the final year project named as **Event Scheduling System** at the Department of Information Technology, University of Gujrat, to fulfill the requirement of the degree of **Bachelor of Science in Information Technology**.

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Project Supervisor Project Coordination Office

Faculty of C&IT -UOG

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Head of the Department

## Acknowledgement

We truly acknowledge the cooperation and help make by **Mr. Haider Ali Khan**, Chairman, Department of Information Technology, University of Gujrat. He has been a constant source of guidance throughout the course of this project. We would also like to thank **Mam Sabiqa Ashraf** for his help and guidance throughout this project. We are also thankful to our friends and families whose silent support led us to complete our project.

1. **Muhammad Talha Tarar.**
2. **Ahmed Jamal.**
3. **Muhammad Hamza Javed.**

Date: ……………….

## Abstract

This report documents the development of the system “Event Scheduling System”, an android application. System requirements are specified and best choice is made among them. Event Scheduling System is basically the system that will convert the existing manual or online event organizing/scheduling system to one complete digital system. The issues in manual system affects the people as they are time consuming, quality of service, lack of supervision. People face problems while organizing an event. Existing system is not so efficient to help both Event Organizer and Customer to get their job done. This system will help User to organizer any kind of event by just one click. This system will also help Event Organizers to advertise and expand their business through our system.

Event Scheduling System helps to resolve many of the issues and digitized the system i.e. to overcome the problems in existing system and provide common platform both for user and event organizer, help event organizer to easily manage and provide services to clients etc. This system will help in ease of doing business with complete integrity and reliability.

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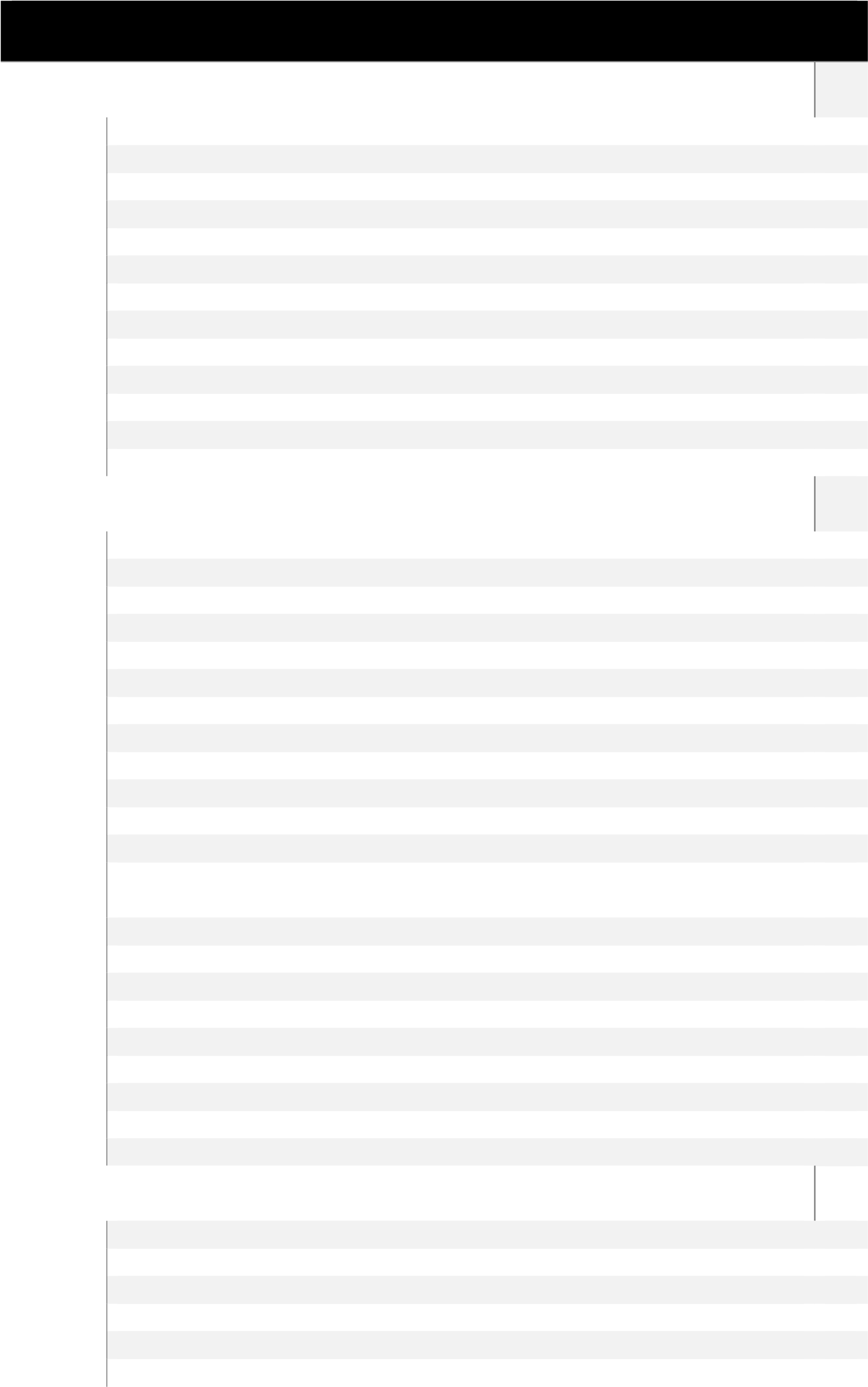
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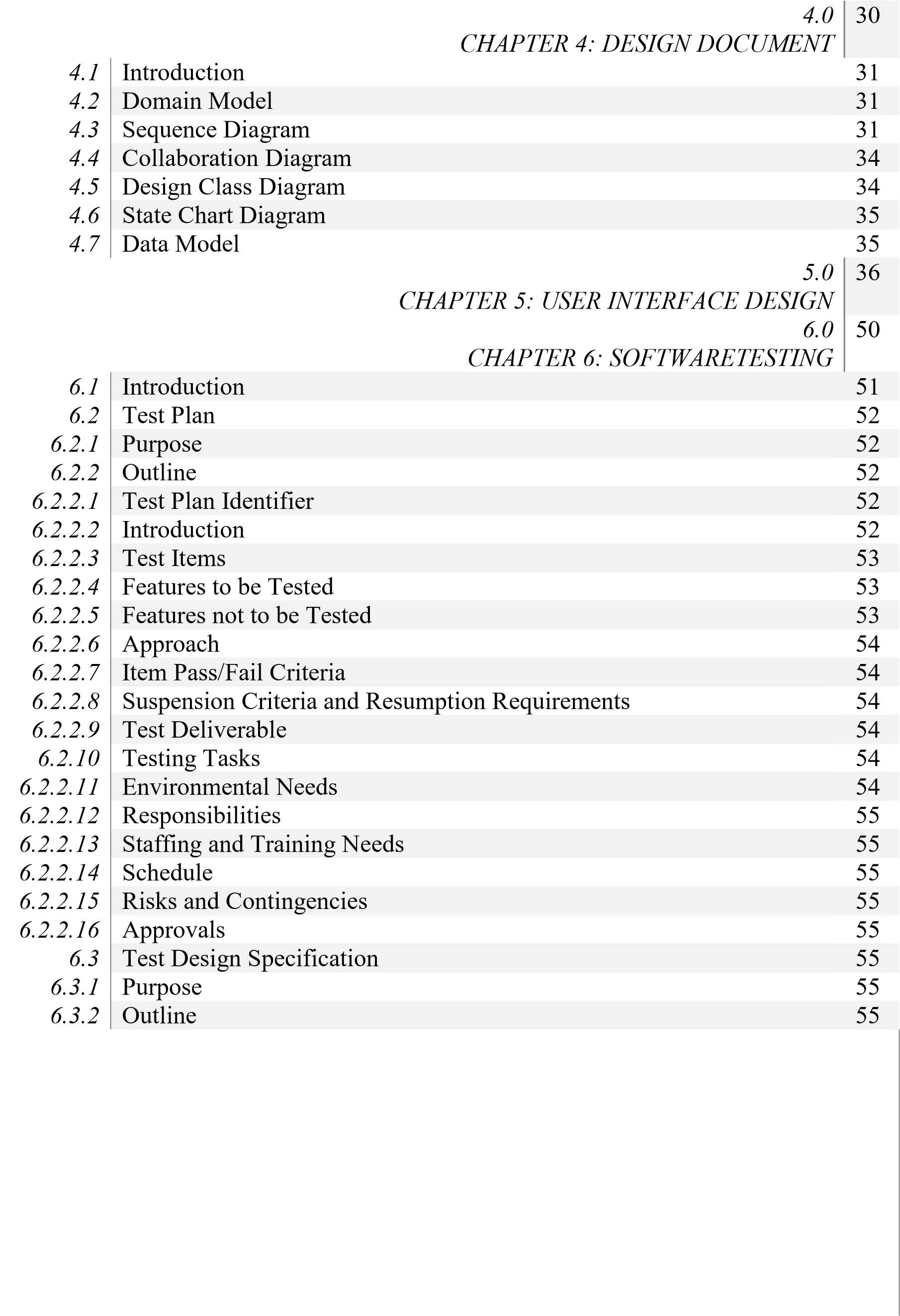
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## Chapter 1: Project Proposal

**Final Year Project Proposal**

# **Introduction**

The continuous advancement in the [information and communication technology](https://www.projecttopics.org/challenges-information-communication-technology-ict-modern-secretaries-office-technology-management-department.html) as contributed a lot to the universe, making life easier for individual, organization, institution and every field now see the importance of ICT. In the contemporary world, smartphones have made lives of people much easier and comfortable. Smart phones have made the world like a global village. Android phones are the primary reason for bringing in comfort into people’s daily life. It has improved the living standards and people’s approach to things.

Making contact with event organizer by going to event venue is time consuming. Similarly, it is difficult for event organizer to manage their business and take business decisions which helps them to attract more customers. Chakwal had no facility to organize event via online. Peoples had to face many difficulties to find the best place for their event. Going to event venues is more expansive, taking lot of time and very difficult. Event organizers had no such system which help them to take decisions right for their business.

“Event Scheduling System” is an android application that will facilitate the user to immediately find best place for their event in his own locality and help Event organizer to provide services to attract clients for their business.

1. **Project Title: -**

**“Event Scheduling System”.**

1. **Project Overview statement:**

Event Scheduling System is an android application. This application will provide online platform both for Event Organizer and Customers to interact with each other. Existing system is not so efficient to help both Event Organizer and Customer to get their job done. This system will help User to organizer any kind of event by just one click. This system will also help Event Organizers to advertise and expand their business by taking important business decision with the help of our application.

1. Project Overview Statement Template

|  |
| --- |
| Project Title:  “Event Scheduling System” |
| Project Manager: Mam Sabiqa Ashraf |
| Project Members:   |  |  |  |  | | --- | --- | --- | --- | | Name | Registration # | Email Address | Signature | | M. Hamza Javed. | 16491556-023 | rajahamza710707@gmail.com |  | | M. Talha Tarar. | 16491556-013 | talhatarar4@gmail.com |  | | Ahmed Jamal | 16491556-040 | ahmedjamal69@gmail.com |  | |  |  |  |  | |  |  |  |  | |
| Project Goal: |
| Objectives:   |  |  | | --- | --- | | Sr.# |  | | 1 | Help user to find best venue for their event. | | 2 | Users can get suggestions based upon his interests. | | 3 | User can organize events easily. | | 4 | Help Event Organizer to sell his services. | | 5 | Help Event Organizer in business decisions. | | 6 | User and Event Organizer can easily communicate with each other. | |
| Project Success criteria:  Project Success criteria is to overcome the problems of common users by helping them to organize their events in best venues and to help Event Organizer to grow their customer base. |
| Assumptions, Risks and Obstacles:  Smart Phones, Internet Connectivity |
| Organization Address (if any): |
| Type of project: 📺Research ⏹Development |
| Target End users: |
| Development Technology: ⏹Object Oriented 📺Structured |
| Platform: 📺Web based 📺Distributed  📺Desktop based ⏹Android and Web  📺Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Approved By: Mam Sabiqa Ashraf |
| Date: |

# **Project Goals & Objectives:**

**Goals: -**

* To overcome the problems in existing system and provide common platform both for user and event organizer.
* Help users to easily organize their events.
* Help event organizer to easily manage and provide services to clients.

**Objectives: -**

* Event Organizer and User can easily interact with each other.
* Organizing and managing issues related to events can be resolved through this application.
* Provide guidelines for using this application.
* User can easily communicate with other users and event organizers.

## High-level system components:

* User Registration/ Log In
* User can search event organizers.
* Check nearby venues using google map.
* Organize Event.
* Payment using QR code
* Event Organizer Registration/ Log In
* Provide different services related to events.
* Add different packages to attract clients.
* Accept orders.
* Analyze user interest.
* Get Payment using QR code.

1. **List of optional functional units:**

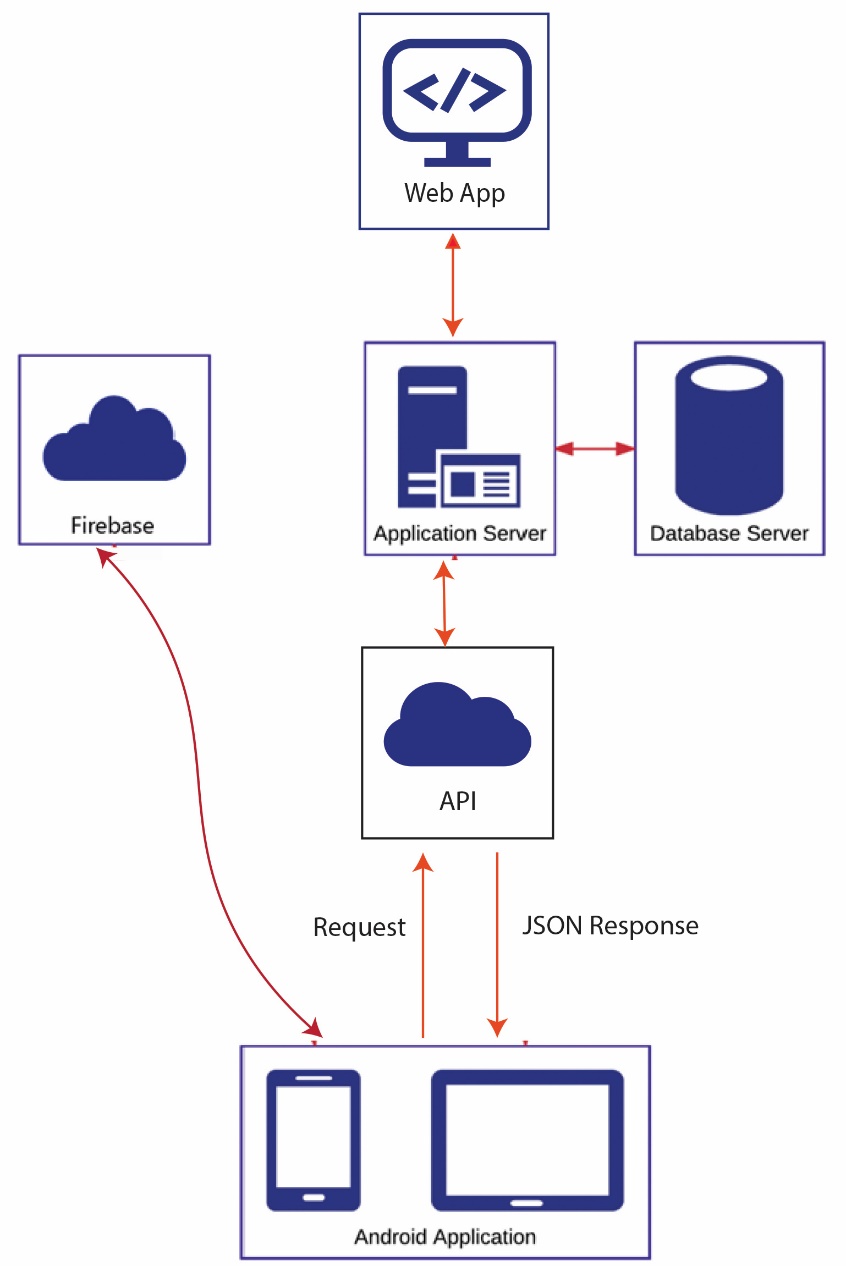
* Rate Event organizer.
* Give feedback.
* Post updates about different events.
* View history.

# **Exclusions:**

# • Desktop Application

# • IOS based mobiles

1. **Application Architecture:**



# **Gantt chart**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***No.*** | ***Activity*** | | ***Duration*** | ***Deliverables*** |
|  | | Requirement Gathering | 3 weeks | Deliverable 1 | |
|  | | Requirement Analysis | 2 weeks | Deliverable 2 | |
|  | | Design | 1 month | Deliverable 3 | |
|  | | Coding | 2 months | Deliverable 4 | |
|  | | Testing | 2 weeks | Deliverable 5 | |
|  | | Debugging | 3 weeks | Deliverable 6 | |
|  | | Implementation | 1 weeks | Deliverable 7 | |

1. **Hardware and Software Specification:**

• Mobile should be quad core with minimum 1GB of Ram

• Minimum android version 5.0 or above

1. **Tools and Technologies used with reasoning:**

• Android Studio IDE(Platform).

• Java (Language for android application development).

• XML(For application layout).

• Firebase (Main Database platform, Cloud Functions).

• HTML,CSS,Bootstrap(Construction and designing admin panel)

• JavaScript, JQuery, AJAX(Language for web based admin panel)

## Chapter 2: First Deliverable

### 2.2. Project/Product Feasibility Report

When a project is started the first matter to establish is to assess the feasibility of a project or product. Feasibility means the extent to which appropriate data and information are readily available or can be obtained with available resources such as staff, expertise, time, and equipment. It is basically used as a measure of how practical or beneficial the development of a software system will be to you (or organization). This activity recurs throughout the life cycle.

There are many types of feasibilities:

* Technical
* Operational
* Economic
* Schedule
* Specification
* Information
* Motivational
* Legal and Ethical

#### 2.2.1. Technical Feasibility

The system is developed in best of its approach and helps resolving the problems. The technology used for the system will be applicable to the project successfully. The team members of this project have knowledge about the technology used and also have technical expertise how to implement technology into the system.

#### 2.2.2. Operational Feasibility

The problems arise in existing system is important to solve because it benefits the relevant people economically. This system digitalized the manual procedures and helpful in solution of many problems. End-users and project related people feel that this system will enable them to tackle the day-to-day problems easily.

#### 2.2.3. Economic Feasibility

This system will benefit the users in terms of efficiency and financially. Efficient procedures of this system save time of end-users and helps in management of problems more effectively. This will also help in reduction of cost and increasing of revenues. The system will provide quality information about the relevant field. This system gives effective communication facility among users. People get easy access to relevant information. Our system will provide economical solutions to the users. This system is less expensive than traditional system.

#### 2.2.4. Schedule Feasibility

Time is an important factor. We have completely made our time schedule for this project. All task activities have been divided into each person equally and also in specific time slots. We are confident to complete our project in given time according to our schedule.

#### 2.2.5. Specification Feasibility

Requirements are gathered according to the needs of the users. We examined that smart phone is in common use. System requirements are collected on reality basis. Requirements are dependent upon the problems faced by people in manual system.

The scope of system is to improve and making the system online. This system covers all the aspects like efficiency, effectiveness and quality. It is beneficial for all relevant people.

#### 2.2.6. Information Feasibility

Our proposed system is reliable and efficient. And provide all the features which are required by the user.

#### 2.2.7. Motivational Feasibility

All the members of the team are completed their tasks effectively and efficiently.

All the members are hard-workers. We have achieved our goal in time.

#### 2.2.8. Legal & Ethical Feasibility

In terms of system security concerns, the system security feasibility is under taken. No infringement or liability arises from this project. The user’s privacy is completely ensured. There is a proper system for authentication and ethical standards are implemented.

The legal perspectives are also acknowledged.

### 2.3. Project/Product Scope

The scope of the project covers all areas relevant to area. The product not only gives the basic information as well as helps in management of the processes. The product is an android app so many of people uses it comfortably. System requirements are gathered according to the problems faced by the people in daily life. In context, it includes the users of the system i.e. service provider, clients, and others. This product also helps in efficiency and easiness of the users. it brings change in the manual procedures as well as hectic online procedures. The product has user friendly features and interfaces.

### 2.4. Project/Product Costing

A metric is some measurement we can make of a product or process in the overall development process. Metrics are split into two broad categories:

#### 2.4.1. Project Cost Estimation by Function Point Analysis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Function type | Simple | Average | Complex | Count |
| Internal Logical File | 7x25 | 10x20 | 15x10 | 525 |
| External Interface File | 5x2 | 7 | 10x8 | 90 |
| External Input | 3 | 4x4 | 6x3 | 34 |
| External Output | 4x2 | 5x3 | 7x4 | 51 |
| External Inquiry | 3x2 | 4x2 | 6 | 14 |
| UFP |  |  |  | 714 |

**Table 2.1**

|  |  |  |
| --- | --- | --- |
| Number | Complexity Weighting Factor | Value |
| 1 | Backup and recovery | 4 |
| 2 | Data communications | 5 |
| 3 | Distributed processing | 0 |
| 4 | Performance critical | 5 |
| 5 | Existing operating environment | 2 |
| 6 | On-line data entry | 5 |
| 7 | Input transaction over multiple screens | 3 |
| 8 | Master files updated online | 3 |
| 9 | Information domain values complex | 4 |
| 10 | Internal processing complex | 4 |
| 11 | Code designed for reuse | 4 |
| 12 | Conversion/installation in design | 4 |
| 13 | Multiple installations | 3 |
| 14 | Application designed for change | 4 |
|  | **Total complexity adjustment value** | 50 |

Table 2.2

Total Unadjusted Function Points (UFP) = 714

Product Complexity Adjustment (PC) = 0.65 + (0.01 \*50) = 1.15

Total Adjusted Function Points (FP) = UFP \* PC =714 \* 1.15= 821.1

Language Factor (LF) for Java assumed as = 53

Source Lines of Code (SLOC) = FP \* LF = 821.1\*53 = 43,518.3

Productivity=FP/PM=821.1/18=45.61

The formulas are given as follows:

* Cost / FP = labor rate / productivity parameter

Cost/FP = 20000/45.61

=438.50

* Total Project Cost = FP est. \* (cost / FP)

= 821.1\*438.50

= 360,050

* Total Estimated Effort = FP est. / productivity parameter

=821.1/45.61

= 18

**TEF = 18.00 person/month**

**2.4.2. Project Cost Estimation by using COCOMO’81 (Constructive Cost Model)**

#### Basic COCOMO

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** |  | **Effort** | **Schedule** |
| Organic |  | PM= 2.4 (KLOC)1.05 | TD= 2.5(PM)0.38 |
| Semi-Detached |  | PM= 3.0 (KLOC)1.12 | TD= 2.5(PM)0.35 |
| Embedded |  | PM= 2.4 (KLOC)1.20 | TD= 2.5(PM)0.32 |

PM= person-month (effort)

KLOC= lines of code, in thousands

TD= number of months estimated for software development (duration)

#### Intermediate COCOMO

**Type Effort**

Organic PM= 2.4 (KLOC)1.05 x M

**Semi-Detached PM= 3.0 (KLOC)1.12 x M**

Embedded PM= 2.4 (KLOC)1.20 x M

KLOC= 43.518

**Effort Applied (E)** = ab (KLOC)bb **[ man-months]**

**3.0(**43.518)**1.12 = 205.13**

**Development Time (D)** = cb (Effort Applied) db**[months] 2.5(205.13)0.35 = 16.11**

**People required (P)** = Effort Applied / Development Time **[count]**

**205.13/16.11= 12.73**

### 2.5. Task Dependency Table

|  |  |  |
| --- | --- | --- |
| Activity | Activity Name | Dependencies |
| A | Requirement gathering | None |
| B | Project proposal | A |
| C | Data Base Modeling | A |
| D | User Interface Design | A, B |
| E | Web Development | B, C |
| F Mobile App Development | | B, C, E |
| G | Software Testing | E, F |
| H Final Documentation | | G |
| I | Deployment | None |

**Table 2.3**

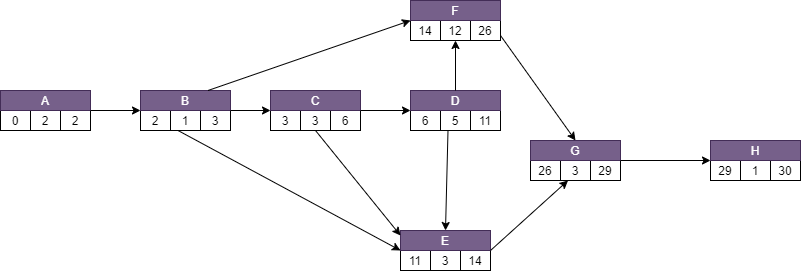
### 2.6. CPM - Critical Path Method

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Activity Name | Predecessor | Duration (Week) |
| A | Requirement gathering | None | 2 |
| B | Project proposal | A | 1 |
| C | Data Base Modeling | C | 3 |
| D | User Interface Design | D | 5 |
| E | Web Development | B, C, D | 3 |
| F | Mobile App Development | B, C, E | 12 |
| G | Software Testing | E, F | 3 |
| H Final Documentation | | G | 1 |

Table 2.4

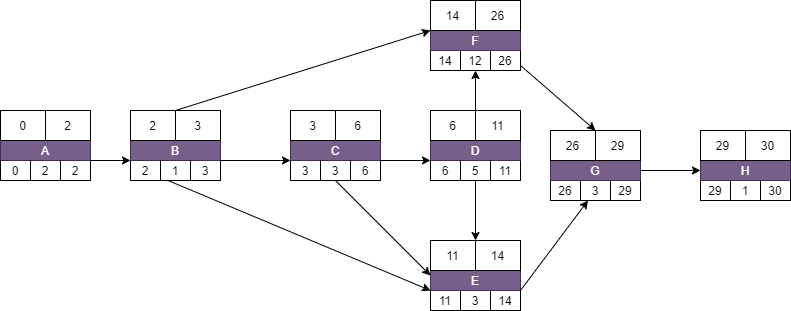
In 1957, DuPont developed a project management method designed to address the challenge of shutting down chemical plants for maintenance and then restarting the plants once the maintenance had been completed.

**NETWORK:**



Network Diagram for the above-mentioned activities

**CPM:**



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Activity** | **Duration** | **ES** | **EF** | **LS** | **LF** |
| A | 2 | 0 | 2 | 0 | 2 |
| B | 1 | 2 | 3 | 2 | 1 |
| C | 3 | 3 | 6 | 3 | 3 |
| D | 5 | 5 | 8 | 5 | 13 |
| E | 3 | 8 | 14 | 8 | 13 |
| F | 12 | 14 | 22 | 14 | 17 |
| G | 3 | 22 | 25 | 22 | 13 |
| H | 1 | 26 | 27 | 26 |  |

Table 2.5

The parameters and slacks are calculated as follows:

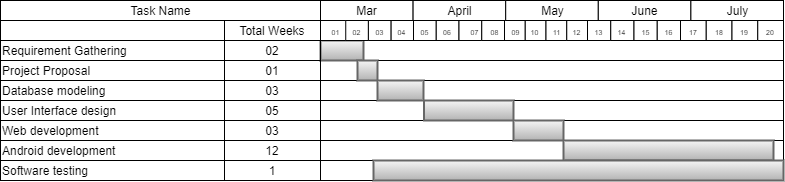
**The critical path is:**

A, B, C, D, E, F, G, H,

### 2.7. Gantt Chart

The Gantt chart enumerates the activities to be performed on the vertical axis and their corresponding duration on the horizontal axis. It is possible to schedule activities by either early start or late start logic. In the early start approach, each activity is initiated as early as possible without violating the precedence relations. In the late start approach, each activity is delayed as much as possible as long as the earliest finish time of the project is not compromised.

Based on the Work Breakdown Structure (WBS), a timeline or Gantt chart showing the allocation of time to the project phases or iterations should be developed. This Gantt chart would identify major milestones with their achievement criteria. It must contain duration estimation of all the necessary activities to be carried out during the project development along with the human resources responsible for the respective tasks. Activity dependencies are also required to be mentioned in it.



### 2.8. Introduction to Team Member and their Skill-set

Table 2.6

|  |  |  |
| --- | --- | --- |
| **Name** | **Skill Set** | **Responsibility** |
| Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal | Android Development with java support, UI Design | Android development java functionality + UI design |
| Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal | Web developer, Database,  Documentation | Developing Admin Panel + Database + Documentation |
| Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal | Web developer, Database,  Documentation | Developing Admin Panel + Database + Documentation |

### 2.9. Task and Member Assignment Table

Table 2.7 Assignment Table

|  |  |  |
| --- | --- | --- |
| **Task** | **Task Name** | **Members** |
| T1 | Requirement gathering | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T2 | Project proposal | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T3 | Data Base Modeling | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T4 | User Interface Design | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T5 | Web Development | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T6 | Mobile App Development | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T7 | Software Testing | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T8 | Final Documentation | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| T9 | Deployment | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |

#### Task durations and dependencies

M1: Muhammad Hamza Javed

M2: Talha Tarar

M3: Ahmed Jamal

**Table 2.8**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Duration (days)** | **Dependencies** | **Members Assignment** |
| T1 | 20 |  | **M1, M2, M3** |
| T2 | 12 | T1 | **M1, M2, M3** |
| T3 | 7 | T2 | **M1, M2, M3** |
| T4 | 25 | T3 | **M1, M2, M3** |
| T5 | 40 | T2, T3, T4 | **M1, M2, M3** |
| T6 | 55 | T2, T3, T5 | **M1.M2, M3** |
| T7 | 19 | T5, T6 | **M1, M2, M3** |
| T8 | 2 | T7 | **M1, M2, M3** |

**Allocation of People to Activities:**

Table 2.9 Allocation of People to Activities

|  |  |
| --- | --- |
| **Task** | **Engineer** |
| **T1** | Talha Tarar  Ahmed Jamal |
| **T2** | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| **T3** | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| **T4** | Hamza Javed |
|  | Ahmed Jamal |
| **T5** | Hamza Javed  Talha Tarar |
| **T6** | Hamza Javed |
| **T7** | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |
| **T8** | Talha Tarar  Ahmed Jamal |
| **T9** | Muhammad Hamza Javed  Talha Tarar  Ahmed Jamal |

### 2.10. Tools and Technology with reasoning

* **Android Studio**

In android studio which provide us xml front-end and back-end coding

* **Java**

Language for android application development

* **XML**

For application layout

* **Firebase Firestore**

Main database platform

* **Firebase**

Authentication and other functionality.

* **HTML, CSS, Bootstrap**

Construction and designing admin panel

* **JavaScript, jQuery, Node.js**

Language for web-based admin panel

### 2.11. Vision Document

This is the vision and scope document of Event Scheduling System. This will cover the problem and vision statement including project background, list of users, stake holders, risks, vision statement, scope and list of features.

**Project Background:** Pakistan in the past time, event organizing was not much efficient. Finding appropriate event venue or service related to any kind of event was not that much easy. Even service provider lacks the resources of advertisement for finding clients related to their business. Both hands the clients and service providers were facing resistance. So, finding a service provider according to your best interest and location was task near to difficult without previous experience. Here arises a need of such system that ensures the quality of service with best service provider or event organizer and aid in organizing events or availing services related for their events by just one click.

**Key Users:**

* Service Provider.
* Clients.

**Stake-Holders:**

* Service Provider.
* Client.
* Admin
* Development Team

**List of Risks:**

* To ensure the quality of tasks in limited time
* Having limited development time
* To include extra functionalities that will extend the schedule
* Team members need to learn unfamiliar tools and technologies
* Detailed reporting could make more development time

**Vision Statement:** This is an android application that will facilitate the user to immediately get solution of organizing event problems in his own locality. This app will solve many of the regular event organizing, services needed for events for the common user. We will be digitalized the existing system. This will help the users in saving their time and make the procedures reasonable and easy. It will play important role in progress of this field due to easiness and convenient system.

**Scope:** Event Scheduling System is an android application, that will provide online assistance to clients and service providers in term of organizing any kind of event. Existing manual and online systems are not very efficient. They do not provide ease to users. Through this system, service provider or event organizer will be able to provide quality service. This app will help to get rid of conventional event organizing system. Clients do not need to travel a long distance searching for venue for their events.

**List of Features:**

* Overcome manual system and provide digital system.
* Get easy allocation of services.
* Time based events.
* Event Organizer of own choice.
* Client can organize any kind of event.
* Provide guidelines for using this application

### 2.12. Risk List

* Lost internet connection
* Connect failed from database
* As the project progresses more and more features that were not identified at the beginning of the project emerge that threaten estimates and timelines
* Mobile should be quad core with minimum 2GB of Ram
* Our App requires android version 7.0 or above to be installed

### 2.13. Product Features/ Product Decomposition

* To overcome manual system and provide more efficient digital system.
* To provide platform for both service providers and clients.
* To provide services related to event just on single click.
* Service Provider and client can communicate easily.
* Service Provider can easily manage different orders through our application.
* Provide Guidelines for using this system.
* It will make easier for client to get better services for their event.

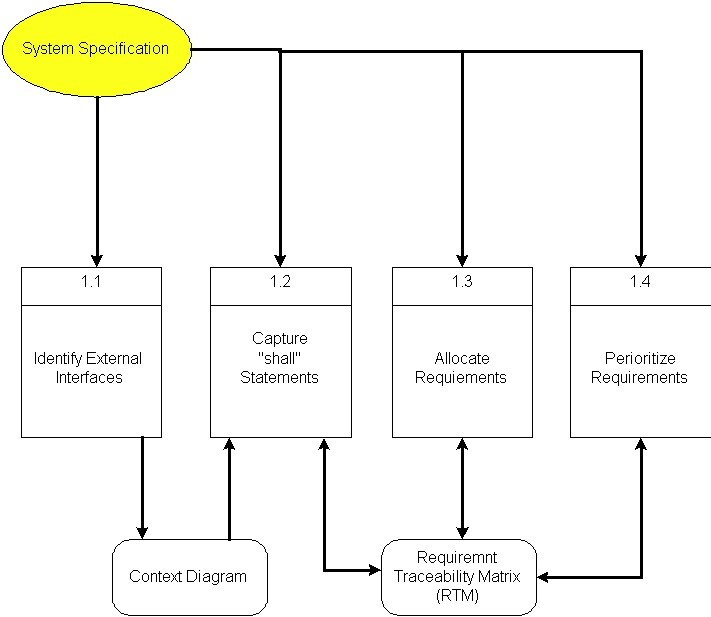
**Chapter 3: Software Requirement Specification (For Object Oriented Approach)**

**3.1 Introduction:**

Event Scheduling System is an android application, that will provide better event organizing system to service provider and clients in term of better online/offline service.

Requirements engineering process provides the appropriate mechanism for understanding what the customer wants, analyzing need, assessing feasibility, negotiating a reasonable solution, specifying the solution unambiguously, validating the specification and managing the requirements as they are transformed into an operational system. The task of capturing, structuring, and accurately representing the user's requirements so that they can be correctly embodied in systems which meet those requirements (i.e. are of good quality).

* Requirements elicitation
* Requirements analysis and negotiation
* Requirements specification
* System modeling
* Requirements validation
* Requirements management



Here, requirements specification is to be discussed. Requirements specification would lead to the following four steps:

* Identify external interfaces
* Development of context diagram
* Capture “shall statements
* Allocate requirements
* Prioritize requirements
* Development of requirements traceability matrix

#### 3.1.1 Systems Specifications

The following are the clauses that must be included while describing the system specifications.

**Introduction:** According to survey in 2018, there are 3.1 billion active users of android in world. Android apps are the future as they provide more ease of use to common people than web-based systems.

“EVENT SCHEDULING SYSTEM” is an android application that will facilitate the service provider and client to interact and aid in event organizing process. Event Organizers can offer different packages while clients can avail packages of their choice. Event Organizer and Clients can communicate with each other through this application.

**Existing System:** Existing manual and online systems are not very efficient. They do not provide ease to users few of them may have got benefits from online services. Although now a day, web-based event organizing platforms are available and working very efficiently. But the problem is that general public does not find ease of use of web system and also not aware of them. The existing android apps provide event organizing services in limited cities on small scale. But the online service provider platform does not match the standard of online platform.

**Scope of the System:** Event Organizing System is an android application that will facilitate the service provider/ event organizer and client to interact and aid event organizing process. Service Provider/ Event Organizer can provide services of their choice. Clients can get these services by just one click.

**Summary of Requirements: (Initial Requirements):** Event Organizing System

is an online Android based mobile application which needs the following initial requirements:-

* Android mobile with at least android 7.0 or higher
* Mobile should be quad core with minimum 2 GB of Ram
* Internet Connectivity

#### 3.1.2. Identifying External Entities

The Identification of External Entities is done in two phases.

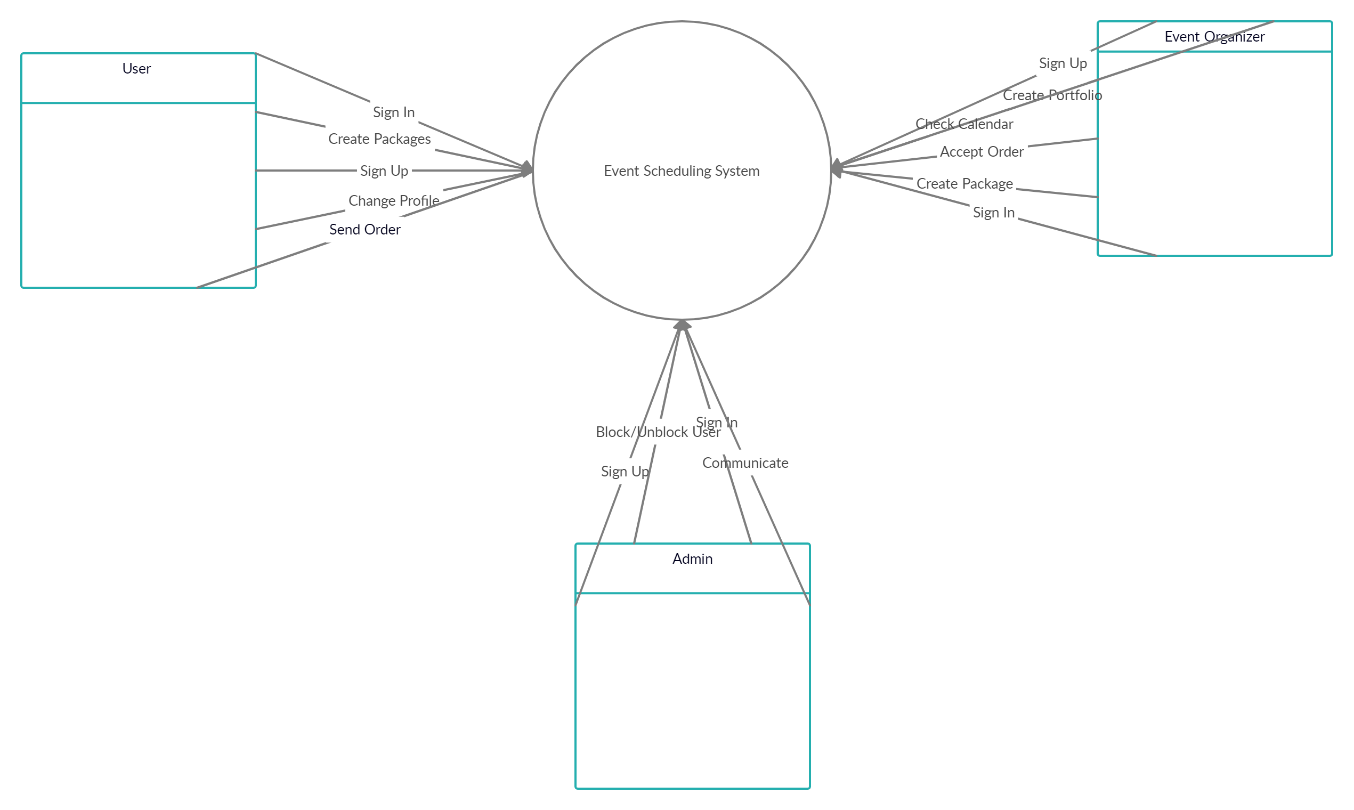
**Phase I: Over Specify Entities from Abstract:**

* + Service Provider/ Event Organizer
  + Client
  + Admin
  + Developer
  + Database
  + Payment

On the basis of the Abstract, one might identify the entities from the problem.

**Phase II: Perform Refinement:**

* + Service Provider/ Event Organizer
  + Client
  + Admin
    1. **Context Level Data Flow Diagram:**



* + 1. **Allocate Requirements**

**Table: 3.1**

|  |  |  |
| --- | --- | --- |
| **Req #** | **Initial Requirements** | **Use Case Name** |
| 1 | Admin, service provider, client, “shall” login. | UC\_ Login |
| 2 | Admin “shall” block & unblock service provider and client. | UC\_ Block/ Unblock |
| 3 | Admin “shall” view information about service provider and client | UC\_ View Detail |
| 4 | User “shall” place order | UC\_ Place Order |
| 5 | Service Provider, Client “shall” update profile | UC\_ Profile Update |
| 6 | User “shall” view portfolio | UC\_ View Portfolio |
| 7 | Service Provider “shall” check, accept and cancel order | UC\_ Accept Order  UC\_ Cancel Order |
| 8 | Service Provider “shall” check calendar to check order dates. | UC\_ Check Calendar |
| 9 | Service Provider “shall” update its portfolio. | UC\_ Update Portfolio |
| 10 | User “shall” create custom packages | UC\_ Create Custom Order |
| 11 | User “shall” communicate with event organizer and vice versa. | UC\_ Communication |
| 12 | Service Provider, Admin, Client “shall” logout | UC\_ Logout |
| 13 | User “shall” rate service provider and its packages | UC\_ Rate Event Organizer |
| 14 | Service Provider, client “shall” rate application. | UC\_ Rate App |

* + 1. **Priorities Requirements:**

Table: 3.2

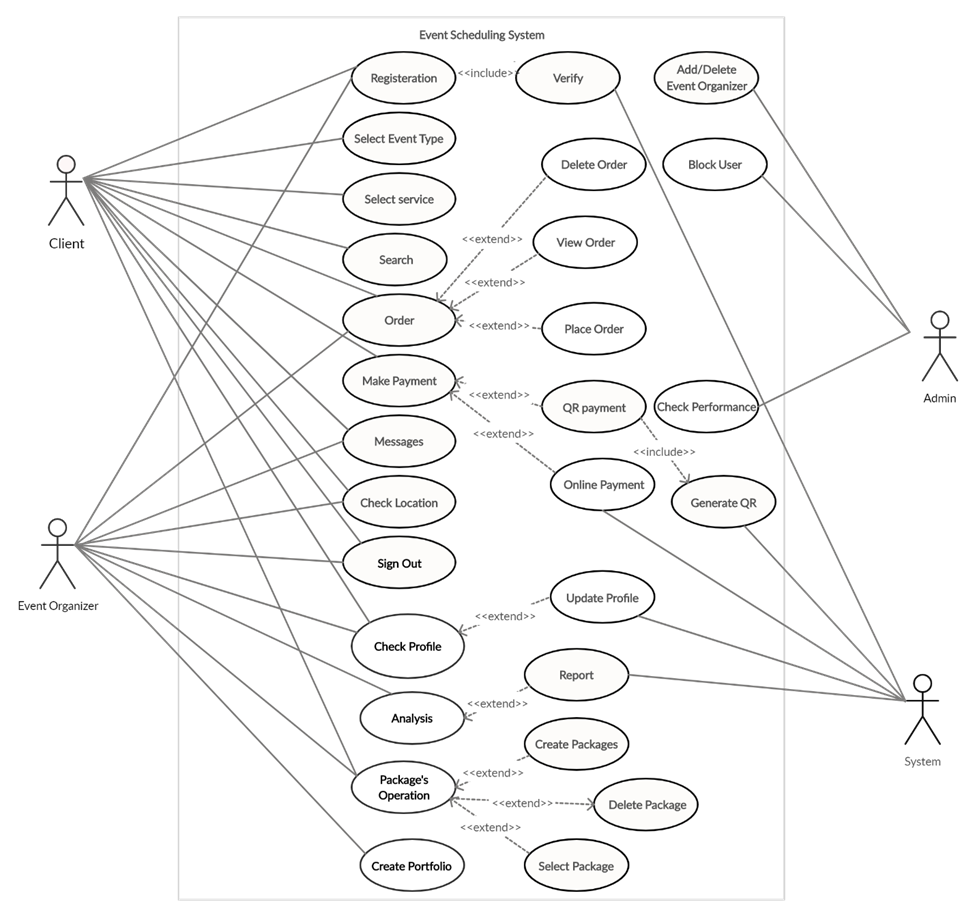
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Req**  **#** | **Rank** | **Initial Requirements** | **Use**  **Case ID** | **Use Case Name** |
| 1 | Highest | Admin, service provider, user, “shall” login. | UC\_ 1 | UC\_ Login |
| 2 | Highest | Admin “shall” block and unblock service provider and client. | UC\_ 2 | UC\_  Block/Unblock |
| 3 | Highest | User “shall” place orders | UC\_ 3 | UC\_ Place Orders |
| 4 | Highest | User, Service Provider and “shall” Rate app | UC\_4 | UC\_ Rate app |
| 5 | Highest | User, Service Provider, Admin  “shall” logout | UC\_ 5 | UC\_ Logout |
| 6 | Medium | Service Provider “shall” check, accept, cancel order | UC\_6  UC\_7 | UC\_ Accept Order  UC\_ Cancel Order |
| 7 | Medium | Service Provider, Client, “shall” update profile | UC\_8 | UC\_ Profile Update |
| 8 | Medium | Service Provider “shall” create and update its portfolio. | UC\_9  UC\_10 | UC\_ Create Portfolio.  UC \_ Update Portfolio. |
| 9 | Medium | Client “shall” create custom packages. | UC\_12 | UC\_ Custom Package |
| 10 | Medium | Service Provider “shall” check calendar to view orders. | UC\_ 13 | UC\_ Check Calendar |

* + 1. **Requirements Traceability Matrix:**

Table: 3.3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr#** | **Req#** | **System**  **Specification**  **Text** | **Build** | **Use Case Name** | **Category** |
| 1 | 1 | Service Provider, client, “shall” login. | B1 | UC\_ Login | Business |
| 2 | 2 | Admin “shall” block/ unblock service provider and clients | B1 | UC\_  Block/Unblock | Business |
| 3 | 3 | User “shall”  Place order | B2 | UC\_ Place Order | Business |
| 4 | 4 | Service Provider “shall” check, accept or cancel order | B2 | UC\_ Accept Order  UC\_ Cancel Order | Business |
| 5 | 5 | User, Service Provider “shall” Rate app | B3 | UC\_ Rate app | Business |
| 6 | 6 | Service Provider “shall” create and update portfolio | B4 | UC\_ Create Portfolio  UC\_ Update Portfolio | Business |
| 7 | 7 | Client “shall” create custom packages | B4 | UC\_ Create Custom Packages | Business |
| 8 | 8 | User, Service Provider “shall”  update profile | B6 | UC\_ Profile Update | Business |
| 9 | 9 | User “shall” order different services | B7 | UC\_ Order Services | Business |

* + 1. **High Level Use Case Diagram:**

****

#### 3.1.9. Use Case Description

Table 3.4

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_1 |
| **Use Case Name:** | UC\_ Login |
| **Goal/Purpose:** | To login into the application |
| **Actors:** | Service Provider, Client and Admin |
| **Pre-Conditions** | Install Application |
| **Post-Conditions:** | Provide username, contact number.etc |
| **Basic Flow:** | Main screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | Display errors for Invalid password and email |

Table: 3.5

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_2 |
| **Use Case Name:** | UC\_ Block/Unblock |
| **Goal/Purpose:** | To block/ unblock service provider or client from application |
| **Actors:** | Admin |
| **Pre-Conditions** | None |
| **Post-Conditions:** | Provide username, contact number.etc |
| **Basic Flow:** | Screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table: 3.6

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_3 |
| **Use Case Name:** | UC\_ Place Order |
| **Goal/Purpose:** | To place order |
| **Actors:** | User/Client |
| **Pre-Conditions** | Install Application  UC\_ Login |
| **Post-Conditions:** | None |
| **Basic Flow:** | order screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table: 3.7

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_4 |
| **Use Case Name:** | UC\_ Profile Update |
| **Goal/Purpose:** | To update profile |
| **Actors:** | User, Admin and Service Provider |
| **Pre-Conditions** | UC\_ Login |
| **Post-Conditions:** | None |
| **Basic Flow:** | Profile screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table: 3.8

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_5 |
| **Use Case Name:** | UC\_ Create Custom Packages |
| **Goal/Purpose:** | To login into the application |
| **Actors:** | User |
| **Pre-Conditions** | UC\_ Login |
| **Post-Conditions:** | Send to service provider/ event organizer |
| **Basic Flow:** | Custom Packages screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table: 3.9

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_6 |
| **Use Case Name:** | UC\_ Check Calendar |
| **Goal/Purpose:** | To check calendar to check order schedule |
| **Actors:** | Service Provider/ Event Organizer |
| **Pre-Conditions** | UC\_ Login  UC\_ Place Order |
| **Post-Conditions:** | None |
| **Basic Flow:** | Navigation screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table 3.10

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_7 |
| **Use Case Name:** | UC\_ Logout |
| **Goal/Purpose:** | To logout from application |
| **Actors:** | Service Provider, Client and Admin |
| **Pre-Conditions** | UC\_ Login |
| **Post-Conditions:** | Close app |
| **Basic Flow:** | Logout Screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table 3.11

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_8 |
| **Use Case Name:** | UC\_ Accept Order |
| **Goal/Purpose:** | To accept the order of event from client |
| **Actors:** | Service Provider/ Event Organizer |
| **Pre-Conditions** | UC\_ Login  UC\_ Place Order |
| **Post-Conditions:** | Order accepted notification |
| **Basic Flow:** | Order screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table 3.12

|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_9 |
| **Use Case Name:** | UC\_ Cancel Order |
| **Goal/Purpose:** | To cancel the orders of client |
| **Actors:** | Store |
| **Pre-Conditions** | UC\_ Login  UC\_ Place Order |
| **Post-Conditions:** | Order cancelled notification |
| **Basic Flow:** | Order screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

Table 3.13

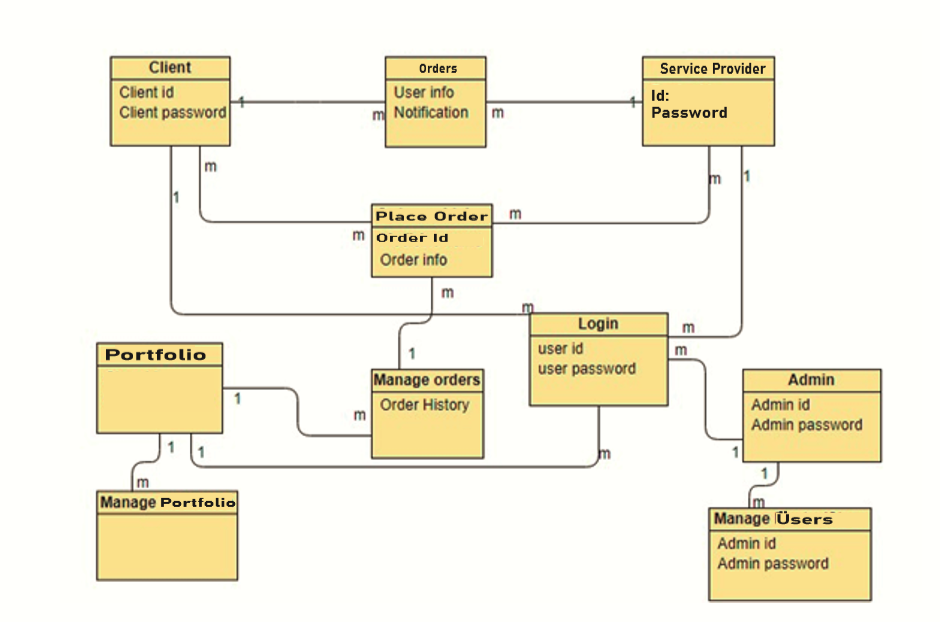
|  |  |
| --- | --- |
| **Use Case Template** |  |
| **Use Case ID:** | UC\_10 |
| **Use Case Name:** | UC\_ Rate app |
| **Goal/Purpose:** | To rate the app |
| **Actors:** | Event Organizer/ Service Provider, Client |
| **Pre-Conditions** | UC\_ Login  UC\_ Place Orders |
| **Post-Conditions:** | None |
| **Basic Flow:** | Main Screen |
| **Alternate Flow(s):** | None |
| **Exception Flow(s):** | None |

**Chapter 4 Design Document (For Object Oriented Approach)**

**4.1. Introduction:**

Third deliverable is all about the software design.

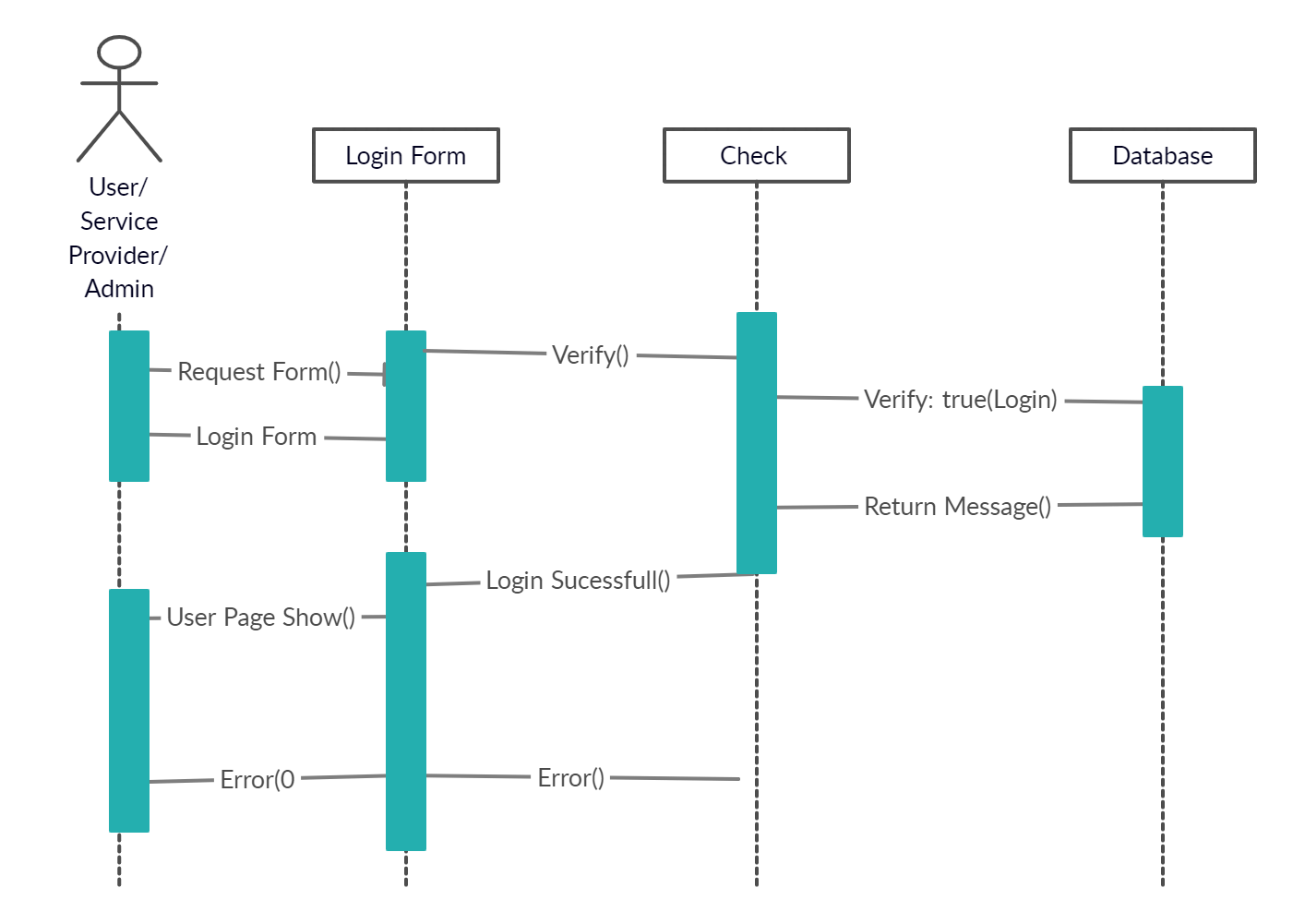
### 4.2. Domain Model



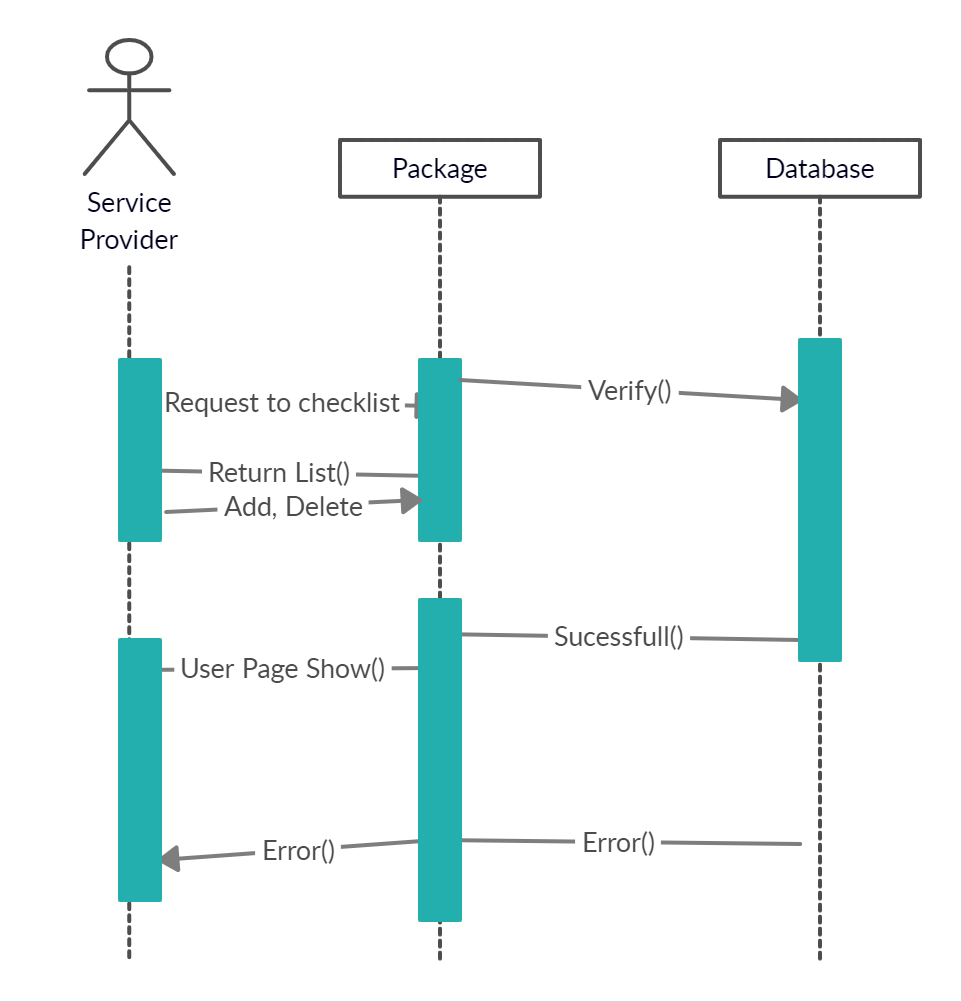
### 4.3. Sequence Diagram

A Sequence diagram depicts the sequence of actions that occur in a system. The invocation of methods in each object, and the order in which the invocation occurs is captured in a Sequence diagram.

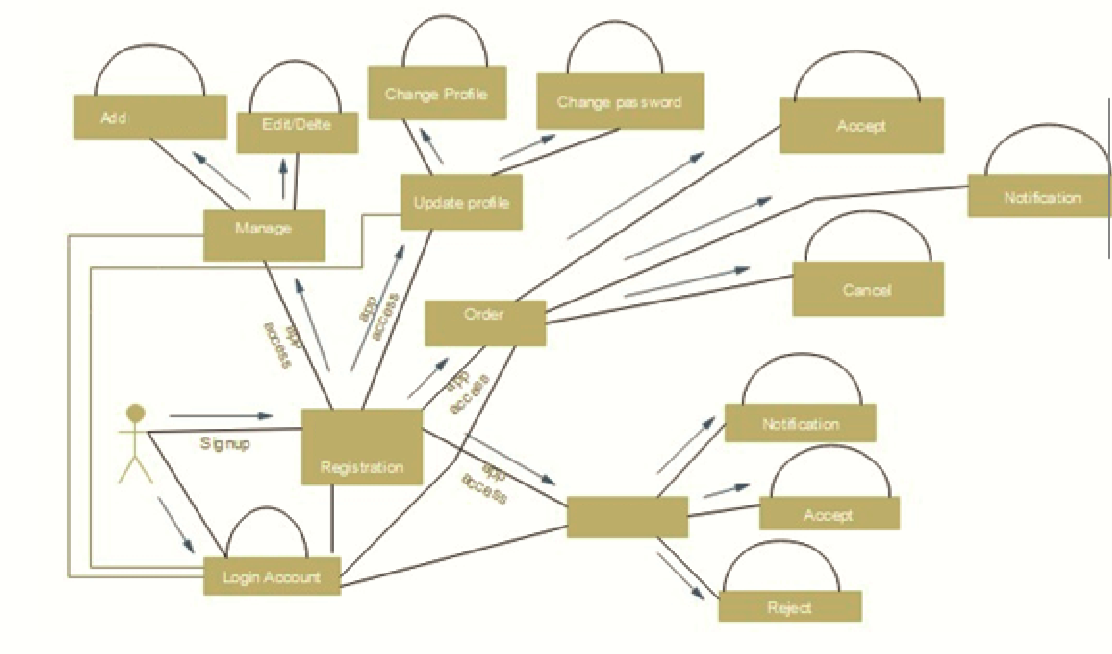
#### Login Sequence diagram



**Add Package**



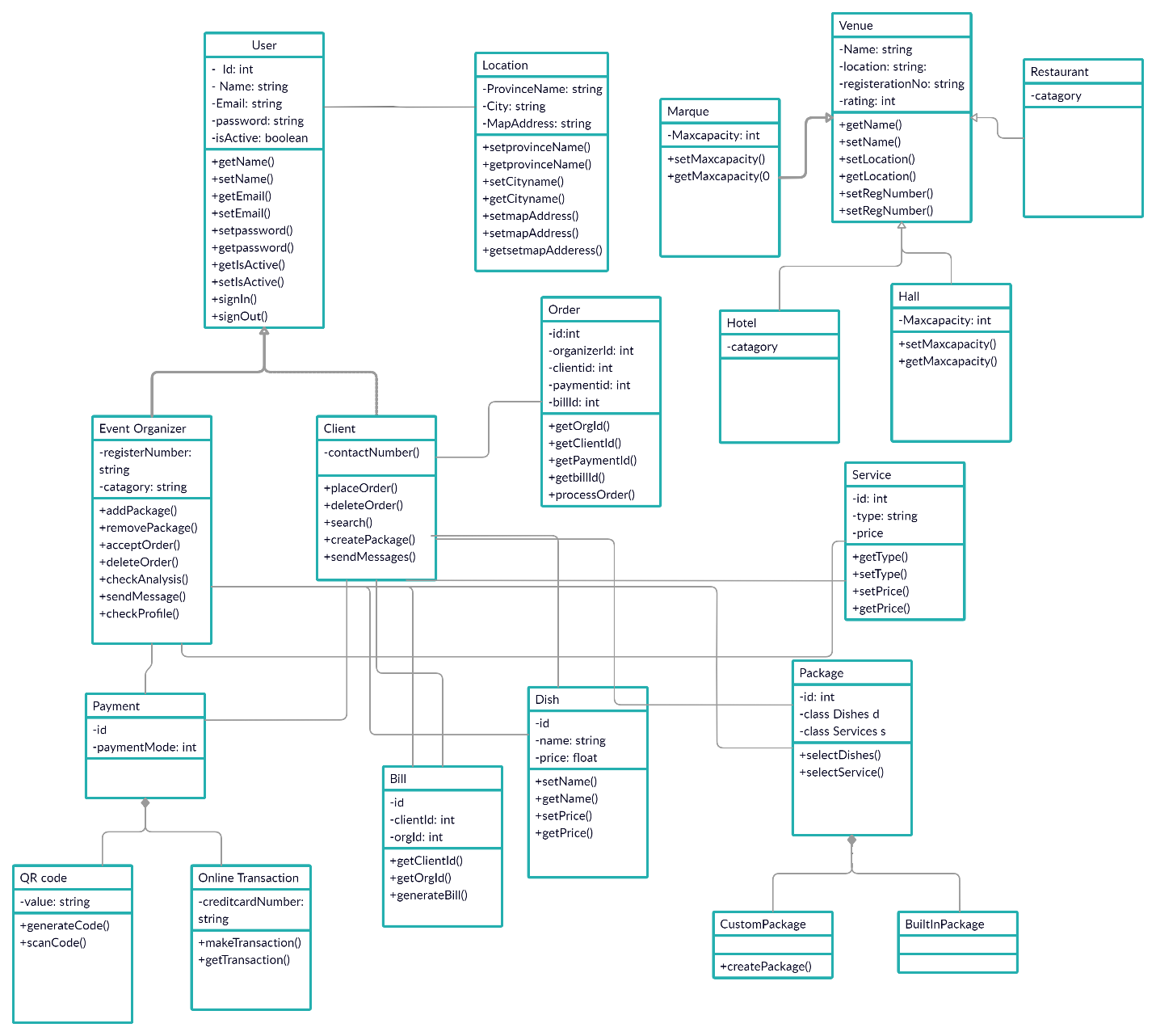
### 3.5. Collaboration Diagram



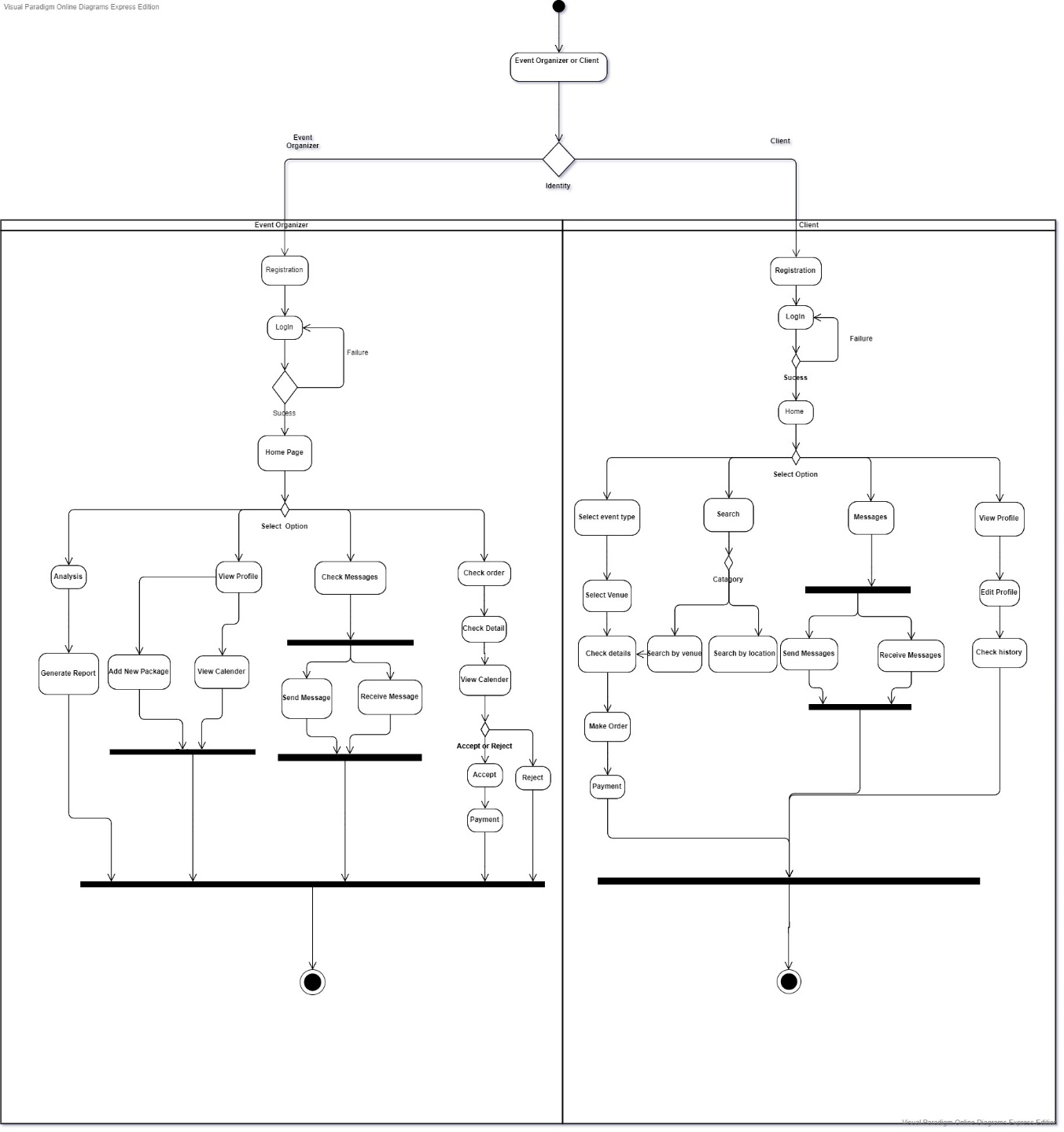
### 4.5. Design Class Diagram

Classes are the work-horses of the design effort—they actually perform the real work of the system. The other design elements—subsystems, packages and collaborations simply describe how classes are grouped or how they interoperate.

Active classes are design classes, which coordinate and drive the behavior of the passive classes - an active class is a class whose instances are active objects, owning their own thread of control.



### 4.6. State chart diagram



**Chapter 5 User Interface Design**

**Login Screen:**

Profile Setting:

**Doctor Appointment:**

**About us:**

**Animal List:**

**Change Language:**

**Feedback:**

**Add Problem:**

**Diseases List:**

**Chapter 6 Deliverable (Software Testing)**

**6.1 Introduction:**

This deliverable is based on the IEEE standard of software testing i.e. IEEE SOFTWARE TEST DOCUMENTATION Std 829-1998. This standard describes a set of basic test documents that are associated with the dynamic aspects of software testing (i.e., the execution of procedures and code). The standard defines the purpose, outline, and content of each basic document. While the documents described in the standard focus on dynamic testing, several of them may be applicable to other testing activities (e.g., the test plan and test incident report may be used for design and code reviews). This standard may be applied to commercial, scientific, or military software that runs on any digital computer. Applicability is not restricted by the size, complexity, or criticality of the software. However, the standard does not specify any class of software to which it must be applied. The standard addresses the documentation of both initial development testing and the testing of subsequent software releases. For a particular software release, it may be applied to all phases of testing from module testing through user acceptance. However, since all of the basic test documents may not be useful in each test phase, the particular documents to be used in a phase are not specified. Each organization using the standard will need to specify the classes of software to which it applies and the specific documents required for a particular test phase.

The standard does not call for specific testing methodologies, approaches, techniques, facilities, or tools, and does not specify the documentation of their use. Additional test documentation may be required (e.g., code inspection checklists and reports). The standard also does not imply or impose specific methodologies for documentation control, configuration management, or quality assurance. Additional documentation (e.g., a quality assurance plan) may be needed depending on the particular methodologies used.

Following are standard artifacts, which must be included in this deliverable:

1. Test Plan
2. Test Design Specification
3. Test Case Specification
4. Test Procedure Specification
5. Test Item Transmittal Report
6. Test Log
7. Test Incident Report
8. Test Summary Report

**6.2. Test plan**

#### 6.2.1. Purpose

Test planning, the most important activity to ensure that there is initially a list of tasks and milestones in a baseline plan to track the progress of the project.

To prescribe the scope, approach, resources, and schedule of the testing activities, to identify the items being tested, the features to be tested, the testing tasks to be performed, each tester is responsible for each task, and the risks associated with this plan.

#### 6.2.2. Outline

A test plan shall have the following structure:

1. Test plan identifier
2. Introduction
3. Test items
4. Features to be tested
5. Features not to be tested
6. Approach
7. Item pass/fail criteria
8. Suspension criteria and resumption requirements
9. Test deliverable
10. Testing tasks
11. Environmental needs
12. Responsibilities
13. Staffing and training needs
14. Schedule
15. Risks and contingencies
16. Approvals

##### 6.2.2.1. Test Plan Identifier

The Identifier for test plan is **Event Organizing System AFTP-1**The abbreviation for identifier is as:

**Event Organizing System App**

**AFTP 1** All Feature Test Plan Version 1

##### 6.2.2.2. Introduction

Software test planning is the most core part of the testing phase on which all the other phases depends in one or another way.

Test planning phases defines and elaborate following points:

What tester has to perform in testing, Standards of quality to use in testing, Resources to be employed for testing, Schedule and time scale for the testing phase

(5) Describes all the risk and contingencies which involved in testing and how they will be overcome. In multilevel test plans, each lower-level plan must reference the next higher-level plan

##### 6.2.2.3. Test Items

Identify the test items including their version/revision level. Also specify characteristics of their transmittal media that impact hardware requirements or indicate the need for logical or physical transformations before testing can begin (e.g., programs must be transferred from tape to disk).

Supply references to the following test item documentation, if it exists:

1. Requirements specification
2. Design specification
3. Users guide
4. Operations guide
5. Installation guide

Reference any incident reports relating to the test items. Items that are to be specifically excluded from testing may be identified.

##### 6.2.2.4. Features to be Tested

* User/Service Provider/Admin login
* Block/Unblock Service Provider/Client
* Place Order
* Accept and Cancel Order
* Create Custom Package
* Create and Update Portfolio
* Check Calendar
* View Profile
* Communicate
* Logout

**6.2.2.5. Features not to be Tested**

There will be no any feature or module that will not be tested.

#### .6.2.2.6. Approach

Test will be conducted as per documented test cases. Each member will test each feature and mark each case as Pass/Fail. Each tester will note the actual result and all relevant details. Once all tests will complete, the test manager will review the test report to the team accordingly.

##### 6.2.2.7. Item Pass/Fail Criteria

There will be different criteria for the Unit testing and Instrumentation testing for the passing and failure of a testing. Moreover, we will be using test driven approach in our development of app. It means we are going to first write test and the execute them and after test will be failed, we will write the code required to pass the test. After that we will refactor and again test till, we pass all the test which are designed and written.

##### 6.2.2.8. Suspension criteria and Resumption Requirements

Testing should be paused immediately if either system experiences the internet issue not performing the required tasks by web or by app.

##### 6.2.2.9. Test Deliverable

Identify the deliverable documents. The following documents should be included:

a. Test plan;

1. Test design specifications;
2. Test case specifications;
3. Test procedure specifications;
4. Test item transmittal reports;
5. Test logs;
6. Test incident reports;
7. Test summary reports.

##### 6.2.2.10. Testing Tasks

Following tasks should be completed before the testing:

Latest Android Studio Installed.

Add dependencies inside Android Studio needed for the test execution.

Design and plan test in order to write and execute them.

##### 6.2.2.11. Environmental Needs

As mentioned earlier we are going to perform testing in android using unit test and instrumentation test. Both these types of tests need different platforms which are as:

**Unit Testing**

For execution of unit test, we need Java virtual machine to be installed in our computer.

#### Instrumented Testing

We need a physical android device or an android emulator installed at Android studio to smoothly run instrumented tests.

##### 6.2.2.12. Responsibilities

Each member is responsible for designing, preparing documentation and executing the system properly. The test manager is responsible for testing, managing and resolving the issues of the project.

##### 6.2.2.13 Staffing and Training Needs

To apply systematic testing methods, test team require a complete understanding of software testing. To apply test in android and to understand them a person requires complete knowledge of testing components provided by android. Training for the team members can be organized to get understanding of testing frameworks.

##### 6.2.2.14. Schedule

The testing will take 4- 5 days. Some components and their features will be tested

in a day.

##### 6.2.2.15. Risks and Contingencies

If the first component testing is not completed within a day it can be delay. After bug fixes the testing will be performed. If the tester doesn’t have the basic understanding of IOT, testing will be delayed or not conducted properly.

##### 6.2.2.16 Approvals

Name: Sabiqa Ashraf

Date:

Signature:

**6.3. Test Design Specification**

**6.3.1. Purpose**

Test-Case Specification document defines a test of ‘**Event Scheduling System**

#### 6.3.2. Outline

A test case specification shall have the following structure:

1. Test case specification identifier
2. Test items
3. Input specifications
4. Output specifications
5. Environmental needs
6. Inter case dependencies

##### 6.3.2.1. Test Case for Specification for Admin

Table 6.1

|  |
| --- |
| **Test Engineer:** |

Talha Tarar

|  |  |
| --- | --- |
| **Test Case ID:** | TC1 |

2

|  |  |
| --- | --- |
| **Test items:** | Admin login to the Web App |
| **Input Specifications:** | Block/ Unblock User/ Service Provider |

|  |
| --- |
| **Output Specifications:** |

Successfully

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Laptop or Computer and Any OS |

|  |
| --- |
| **Inter-case dependencies:** |

None

##### 6.3.2.1. Test Case for Specification of Admin to Login

Table 6.2

|  |
| --- |
| **Test Engineer:** |

Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC2 |

|  |  |
| --- | --- |
| **Test items:** | Admin login to the Web App |
| **Input Specifications:** | Admin can check all details |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

None

##### 6.3.2.1. Test Case Specification for Login to Android App

##### Table 6.3

|  |
| --- |
| **Test Engineer:** |

Hamza Javed

|  |  |
| --- | --- |
| **Test Case ID:** | TC3 |

|  |  |
| --- | --- |
| **Test items:** | Service Provider/ Client login to the Android App |
| **Input**  **Specifications:** | Name and Password stored in database |

|  |
| --- |
| **Output**  **Specifications:** |

Authorized User/ Event Organizer will be logged in successfully

|  |  |
| --- | --- |
| **Test Environment**  **Needs** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC1

##### 6.3.2.1. Test Case for Specification to Place Order

Table 6.4

|  |
| --- |
| **Test Engineer:** |

Hamza Javed

|  |  |
| --- | --- |
| **Test Case ID:** | TC4 |

|  |  |
| --- | --- |
| **Test items:** | Place Order |
|  | User click on Package and then place order |
| **Input Specifications:** |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification for Event Organizer to Accept Order

Table 6.5

|  |
| --- |
| **Test Engineer:** |

Talha Tarar

|  |  |
| --- | --- |
| **Test Case ID:** | TC5 |

|  |  |
| --- | --- |
| **Test items:** | Service Provider/ Event Organizer accept order |
| **Input Specifications:** | Service Provider/ Event Organizer click on Accept Order. |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification of Client to create Custom Package

Table 6.6

|  |
| --- |
| **Test Engineer:** |

Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC6 |

|  |  |
| --- | --- |
| **Test items:** | Create Custom Package |
| **Input Specifications:** | User select different items and services to create custom package. |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC5

##### 6.3.2.1. Test Case for Specification for Event organizer to cancel order.

Table 6.7

|  |
| --- |
| **Test Engineer:** |

Hamza Javed

|  |  |
| --- | --- |
| **Test Case ID:** | TC7 |

|  |  |
| --- | --- |
| **Test items:** | Event Organizer/ Service Provider Cancel Appointment |
|  | Service Provider/ Event Organizer click on Cancel Appointment |
| **Input Specifications:** |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3, TC4

##### 6.3.2.1. Test Case for Specification for Service Provider to create Portfolio

Table 6.8

|  |
| --- |
|  |
| **Test Engineer:** |

Talha Tarar

|  |  |
| --- | --- |
| **Test Case ID:** | TC8 |

|  |  |
| --- | --- |
| **Test items:** | Create Portfolio |
| **Input Specifications:** | Event Organizer click on create Portfolio |

|  |
| --- |
| **Output**  **Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification for Event Organizer to create a package

Table 6.9

|  |
| --- |
| **Test Engineer:** |

Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC9 |

|  |  |
| --- | --- |
| **Test items:** | Delete Package |
| **Input Specifications:** | Event Organizer select and delete package. |

|  |
| --- |
| **Output**  **Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification for Check Calendar

Table 6.10

|  |
| --- |
| **Test Engineer:** |

Hamza Javed, Talha Tarar

|  |  |
| --- | --- |
| **Test Case ID:** | TC10 |

|  |  |
| --- | --- |
| **Test items:** | Check calendar to check orders schedule |
| **Input Specifications:** | Event Organizer can check calendar to check orders on specific date |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification for Event Organizer to accept order.

Table 6.11

|  |
| --- |
| **Test Engineer:** |

Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC11 |

|  |  |
| --- | --- |
| **Test items:** | Event Organizer can accept order. |
| **Input Specifications:** | Event Organizer can Click on Accept Order |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3, TC10

##### 6.3.2.1. Test Case for Specification for Event Organizer to Cancel order

Table 6.12

|  |
| --- |
| **Test Engineer:** |

Hamza Javed

|  |  |
| --- | --- |
| **Test Case ID:** | TC12 |

|  |  |
| --- | --- |
| **Test items:** | Event Organizer can Cancel Order |
| **Input Specifications:** | Event Organizer can click on Cancel Order |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3, TC10

##### 6.3.2.1. Test Case for Specification for App Users to Change Profile

Table 6.13

|  |
| --- |
| **Test Engineer:** |

Hamza Javed, Talha Tarar, Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC13 |

|  |  |
| --- | --- |
| **Test items:** | Event Organizer and Client can change their Profile |
| **Input Specifications:** | Event Organizer and Client can click on Settings to change profile |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification to Check History

Table 6.14

|  |
| --- |
| **Test Engineer:** |

Hamza Javed, Talha Tarar, Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC14 |

|  |  |
| --- | --- |
| **Test items:** | Client can check history |
| **Input Specifications:** | Client can check history about previous orders and rating. |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

##### 6.3.2.1. Test Case for Specification to Add Packages

Table 6.15

|  |
| --- |
| **Test Engineer:** |

Talha Tarar, Ahmed Jamal

|  |  |
| --- | --- |
| **Test Case ID:** | TC15 |

|  |  |
| --- | --- |
| **Test items:** | Event Organizer can add new packages. |
| **Input Specifications:** | Event Organizer can add packages by click on Packages button |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

**6.3.2.1. Test Case for Specification for Admin to view detail about users**

Table 6.16

|  |
| --- |
| **Test Engineer:** |

Talha Tarar

|  |  |
| --- | --- |
| **Test Case ID:** | TC16 |

|  |  |
| --- | --- |
| **Test items:** | Admin can view user detail. |
| **Input Specifications:** | Admin can view user detail from web application |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile |

|  |
| --- |
| **Inter-case dependencies:** |

TC2

##### 6.3.2.1. Test Case for Specification to Logout from App

Table 6.17

|  |
| --- |
| **Test Engineer:** |

Talha Tarar, Ahmed Jamal, Hamza Javed

|  |  |
| --- | --- |
| **Test Case ID:** | TC17 |

|  |  |
| --- | --- |
| **Test items:** | Service Provider, Client and Admin can logout from app |
| **Input Specifications:** | Service Provider, Client and Admin can click on Logout |

|  |
| --- |
| **Output Specifications:** |

Successful

|  |  |  |
| --- | --- | --- |
| **Test Needs** | **Environment** | Home, Android mobile, web application |

|  |
| --- |
| **Inter-case dependencies:** |

TC3

**Appendixes:**

**Appendix 1: Final Documentation Format Guidelines**

**Typographical Format and Binding**

**Page Format:**

|  |  |  |
| --- | --- | --- |
| Page size: | | A4 |
| Top margin: | | 1.00 inch |
| Bottom margin: | | 1.00 inch |
| Left margin: | | 1.5 inch |
| Right margin: | | 1.00 inch |
| Page numbering: | | Bottom right - part of the footnote |
|  |  | Title page not numbered |
|  |  | All other pages before the page of chapter one numbered in lower roman numerals (i, ii, iii, …) |
|  |  | All other pages starting from first page of chapter one to last page of the report numbered in integers (1, 2, 3, …) |
| Footer: |  | Each page shall have a footnote “University of Gujrat” |
|  |  | Left aligned |
|  |  | In case of long titles shorter versions should be used.  There shall be a line over the footnote. |
| Header: |  | Each page shall have a header “Project Name” |
|  |  | Left aligned |
|  |  | In case of long titles shorter versions should be used.  There shall be a line under the footnote. |
| Chapter Startup: | | Each chapter shall be numbered as Chapter 1, Chapter 2, etc. The name of the chapter shall be written immediately below.  Both shall be centered horizontally as well as vertically. |
|  | | The actual chapter content shall start from the next page.7 |

|  |  |
| --- | --- |
| Text: | Only one side of the paper shall be used. |
|  | The other side shall be blank. |
|  | When a report is opened the right side would contain text, figures, or tables and the left side would be blank. |
| Tables and Figures: | Tables and figures shall be placed on one side only |
|  | Separate pages shall be used for figures and tables. |
|  | One page may contain more than one figure or table but text will not be combined or interlaced with figure or table. |
|  | Each table / figure shall be numbered. |
|  | For example, "Table 1.2: Population distribution in Asia" or  "Figure 3.2: Temperature distribution" |
|  | The table number or figure number shall be placed as normal |

text centered at the bottom of the table or figure or sideways with table / figure title coming on the opening side of the paper and note on the binding side.

**Paragraph:**

Single-spaced.

Line entered paragraph.

DONOT put indents at the beginning of the paragraph.

Left aligned or justified.

#### Text Format

Normal and plain text:

Font Type: Times New Roman

Font Size: 12

Headings:

Chapter Heading: Times New Roman Bold Size 16 Title Case normal

Heading 1: Times New Roman Bold Size 14 Title Case normal

Heading 2: Times New Roman Bold Size 12 Title Case normal

Heading 3: Times New Roman Bold Size 12 Title Case italic

#### Sections and Subsections

In case of sections and subsections follow this format:

1. Section

1.1 Sub Section 1.1.1 Nested Sub Section

a b

I

ii

The subsequent reference to a any section shall be made using the section and its number. For example, **section 2.1.3** means chapter 2 section 1 subsection 3.

#### Mathematical Equations

The following numbering scheme should be used to number the equations:

f(x) = x+3 (XX: YY)

Where XX is the chapter number and YY is the sequence number of that equation in that chapter.

If an equation is previously quoted in an earlier chapter, say as equation 4:5 and need to be re-quoted in chapter 5, its number will remain as equation 4:5.

#### References

References are to be placed in square brackets and interlaced in the text. For example, "A comprehensive detail of how to prevent accidents and losses caused by technology can be found in the literature [1]. A project report / thesis cannot be accepted without proper references. The references shall be quoted in the following format:

The articles from journals, books, and magazines are written as:

1. Abe, M., S. Nakamura, K. Shikano, and H. Kuwabara. Voice conversion

through vector quantization. *Journal of the Acoustical Society of Japan*, April 1990, E-11 pp 71-76.

1. Hermansky, H. Perceptual linear predictive (PLP) analysis for speech. *Journal of the Acoustical Society of America*, January 1990, pp 1738-1752. The books are written as:
2. Nancy G. Leveson, Safeware System Safety and Computers, A guide to preventing accidents and losses caused by technology, Addison-Wesley Publishing Company, Inc. America, 1995.
3. Richard R. Brooks, S. S. Iyengar, *Multi-Sensor Fusion Fundamentals and Applications with Software*, The Prentice-Hall Inc. London, 1998.

#### Binding

All reports shall be bounded with an appropriate print on the backbone.

Two copies should be submitted.

**Color of the binding:**

* BSc project / thesis reports: black
* MSc project / thesis reports: blue

**Contents of the CD Attached**

All reports / theses must accompany a CD whose contents will have the following:

Top-level directories:

Doc All documents related to the project

Instructions how to access the CD to the point to running the

project

All reports already submitted

The final project report in thesis form

Installation instructions

Trouble shooting instructions in case of problems

|  |  |
| --- | --- |
|  | User manual |
|  | Research material including URLs |
|  | Papers consulted / referred to |
|  | Slides of the presentations |
| Source | All source files that will be needed to compile the project. |
|  | Further subdirectories can be used. |
|  | This must include sample data files as well. |
| Project | The running project including sample data files as well as sample output.  This should be in a form that if copied to a machine runs without |

errors.

This may an exe file of an entire project, an installer depending on the project or simply a running project.

You can have sub directories with appropriate names.

#### Length

The length of your dissertation depends on the type of project you have selected. An excellent dissertation will often be brief but effective (its author will have said a lot in a small amount of space). Voluminous data can be submitted electronically on CD.