



**COMSATS University Islamabad,
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SOFTWARE REQUIREMENTS SPECIFICATION

(SRS DOCUMENT)

for

EVENTIVO
Version 1.0

By

**CUI/FA17-BSE-060/SWL
CUI/FA17-BSE-062/SWL
CUI/FA17-BSE-075/SWL**

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Revision History

Name	Date	Reason for changes	Version

Application Evaluation History

Comments (by committee) *include the ones given at scope time both in doc and presentation	Action Taken

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Signature_____

1 INTRODUCTION

We all know that every business is going to shifted on online platforms people like to deal with any person or company about anything or any product by just sitting at their home. Many people want to book the venue and other essentials will less or no effort these days, but people must visit different banquets and marquees individually and collect the quotations. Some people become much lazy that they delay the booking process because manually booking consumes too much time and effort involved. People don't want to go out. People want easiness in their lives, so we come up with the idea to ease the people and community. For the marriages and events, we must book marriage halls or marques or other lawn etc. and also need about all the essentials that are compulsory in the event like food, music band system, decoration, photography etc. so we designed a Place Booking application that provide all these services and our community will get benefit of it. The Eventivo application provides user the searching facilities based on various factors. This android application will provide the functionality for searching wedding halls and marquees for the events. This application can be used to check the availability of venue on day, so we do not need to go and visit different places manually and just book our desired venue by sitting at home using our smartphone. User can compare two or more venues for his/her ease to get suggestions that which one is best for him/her. The system will give suggestions according to the budget and number of attendees. The user can also book other essentials for function like DJ (sound system), food, decoration etc. through this application. The application will save both the time and money of people to search for hall. Information of individual's booking is stored in database. Owner of the venue can insert his details from his account, he can edit his information and update if needed. The user can book all the function's essential without any effort. User can also give the feedback and rate about booking place that will help others to get views about that venue.

1.1 Purpose

Everything is moving towards the online business-like websites and android applications. People most of the time use mobile phones and have it in their pockets. Our people spend most of their time by using cellphone and scrolling their social media feed. This application is android based so everyone having smartphone can use this app and can avail the services. Many people do not visit all the halls

and banquets to get information about these venues and finalize the near one or that looks good but, in this way, they don't visit all halls and not have much info about all. By using this application people will get all information about the nearby halls or anywhere where they want to search can search and contact with them. It's a great work for community without any boundary and can get complete access on food ordering, sitting capacity and all other arrangements on a single application. We can also get the profit by running ads on it and by adding Feature your venue option.

1.2 Scope

Through Eventivo application, the user can book all the function's essential without any effort by sitting at home or any location. User can be able to compare different venues by using this application. The system will give suggestions according to the budget and number of people so user can view them according to his needs. The seller will be able to get more customers by creating the venue's profile and can add all details about venue on profile

2 OVERALL DESCRIPTION

2.1 Product perspective

Eventivo is a much-needed system in this busy world. Due to lack of time people face many difficulties in booking venue and other essentials for a function. This system will provide a place for users to book their requirements of function online without much headache and less time consumption. As everything these days is being online so this system will be a fruitful and beneficial addition in this online world. The user can easily check the nearby and recommended venues in a defined budget. Many people want to book the venue and other essentials will less or no effort these days, but people must visit different banquets and marquees individually and collect the quotations. Some people become much lazy that they delay the booking process because manually booking consumes too much time and effort involved. People don't want to go out. People want easiness in their lives, so we come up with the idea to ease the people and community. For the marriages and events, we must book marriage halls or marques or other lawn etc. and also need about all the essentials that are compulsory in the event like food, music band system, decoration, photography etc. so we designed a Place Booking application that provide all these services and our community will get benefit of it. The venue booking application provides user the

searching facilities based on various factors. This android application will provide the functionality for searching wedding halls and marquees for the events.

2.2 Operating environment

This software will be used by the venue owners and by the users. This system will operate correctly on the android operating system. The system shall operate with android studio and Arduino IDE for hardware code. Android SDK is used by the mobile application developers, as it enables to create and specific for android application. It has different libraries which are required for building good Android application. Android SDK is needed because it provides all functions, features and libraries that will help in building an Android application an Android Device Manager allows us to create a virtual device for the application by simulating the real device capabilities. We can create different virtual devices or can attach our android phone for the checking purpose of the application according to our specifications.

Software Environment

Table 1: Software Environment

Windows 7 or higher	Operating system
MS Visio 2016	Gantt chart, Use Case, Incremental Model Diagram, Flowchart, Activity Diagram.
MS Word 2016	Documentation
MS Power Point	MS PowerPoint
Android Studio (latest version)	Development Tool
PyCharm	Development Tool
KitKat (min)	Android OS
Arduino IDE	Development Tool
Firebase	Database

Hardware Environment

- Processor – i5
- Hard Disk – 500 GB

- Memory – 4GB RAM
- Android Phone

2.3 Design and Implementation Constraints

Some of the operating system and programming languages to be used in the App are a limitation for this software. The time allotted for this project will be limited to the end of 8th semester.

Our project is meant to be responsive management of functions which deals with tremendous information regarding the Venue Booking system. We'll use the Android studio for the android application and for the machine learning implementation we'll use Pycharm and Python Language Database that we'll use be the Firebase.

3 Requirement Identifying Technique

A requirement can be defined as a condition or capability that must be processed by a product or an application. Techniques that can be used for collecting requirements are as follows:

- By one to one discussion
- By Group discussion
- By observations
- Using software tools
- Using techniques for decision making
- Focus on facilitated groups and workshops
- Use of prototype
- Use case is an effective technique for interactive end-user applications
- Event- response tables are for real time system and
- Story boarding for graphically intensive applications.

3.1 Use case diagram

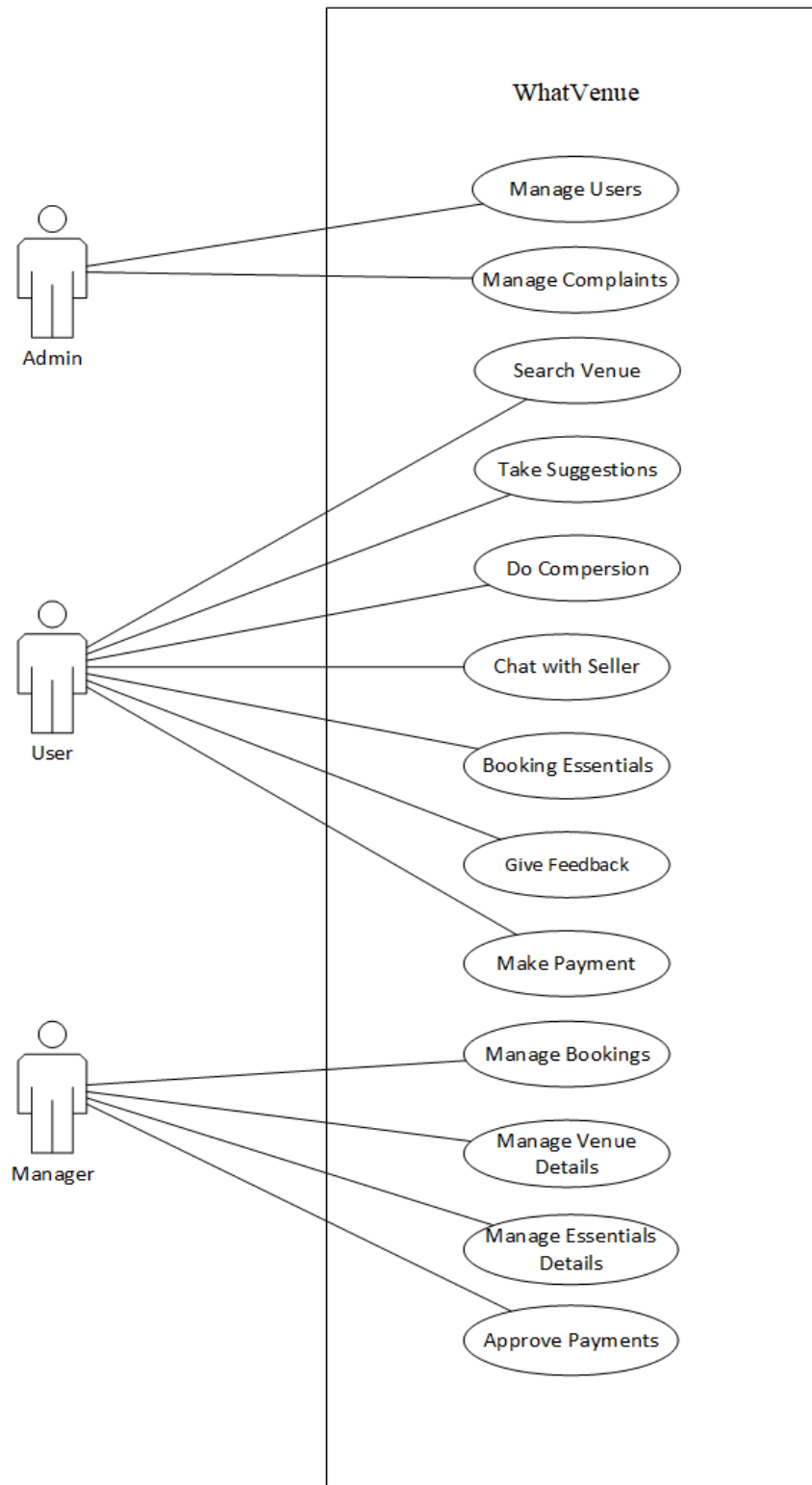


Figure 1: System Level Use Case Diagram

3.2 Use Case Description

Search Venue

Table 2: Search Venue

Use Case	Search venue
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	The user can search about the venues by adding location or application show the user nearby halls automatically

Take Suggestions

Table 3: Take Suggestions

Use Case	Take Suggestions
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	The user can get suggestions from the system about the best hall for booking with respect to food and sitting.

Do Comparison

Table 4: Do Comparison

Use Case	Do Comparison
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	The user can compare the different marquees or halls

	on the base of food and sitting criteria.
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Chat with Seller

Table 5: Chat with seller

Use Case	Chat with Seller
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	The system shall allow the user to chat with the manager without sharing their personal details

Booking Essentials

Table 6: Book Essentials

Use Case	Booking Essentials
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	User can book the desired hall or marquee and all other essentials like Dj , Decorator etc.by clicking on booking button.

Feedback

Table 7: Feedback

Use Case	Feedback
Type	Primary
Primary Actor	User

Secondary Actor	System
Description	The user can rate or give feedback about their experiences with the specific hall so people get to know about the other people reviews about that venue.

Make Payment

Table 8: Make Payment

Use Case	Make Payment
Type	Primary
Primary Actor	User
Secondary Actor	System
Description	The user can make payment online for booking halls or other essentials

Manage Bookings

Table 9: Manage Booking

Use Case	Manage Bookings
Type	Primary
Primary Actor	Manager
Secondary Actor	System
Description	The Manager after authentication can manage all the bookings and essential services.

Manage Venue Details

Table 10: Manage Venue Details

Use Case	Manage Venue Details
Type	Primary
Primary Actor	Manager
Secondary Actor	System
Description	The Manager deals with al type of venue details like add venue, categories, food details, sitting capacity etc.

4 Specific Requirements

4.1 Functional Requirements

Functional requirements are the requirements that should be provided by an application. It is defined as a service statement. Functional requirements tell how an application should behave in different situations and how it will react to a input.

FR-1 Authentication

A valid email and login are required to create an account

Account will be approved by the Admin

FR-2 Venue Search

The system shall allow the user to search venues

After clicking on required venue from search results, all the details of particular venue can be seen.

FR-3 Venue Suggestion

The system will suggest the Venues with help of NLP (semantic analysis)

It's depending on the previous reviews and distance

FR-4 Venue Comparison

The system shall allow the user to do the comparison between 2 Venues

FR-5 Chat Option

The system shall allow the user to chat with the manager without sharing their personal details

FR-6 Booking Essentials

The system shall allow the user to book the essentials whatever he/she want for the event like Dj, Food, Decoration etc.

The system shall allow the Manager to manage and update the essential details like categories and budget etc.

FR-7 Feedback

The system shall allow the user to give Feedback / Ratings about the place to recommend

FR-8 Payment

The system shall allow the user to pay their total charges of the event by COD method

4.2 Non-Functional Requirements

Non-Functional requirements define system properties and constraints e.g. reliability, response time and storage requirements. Constraints are I/O device capability, system representations, etc. Non-functional requirements may be more critical than functional requirements. If these are not met, the system is useless.

4.2.1 Availability

Application must be responsive and available at every time. Availability of internet connection is major requirement of the application.

4.2.2 Reliability

A product having better performance initially may fail to provide the same performance later on. In such a case a product is not considered reliable. This application fulfills the conditions of not only quality products but also reliable products.

4.2.3 Maintainability

Making changes or upgradeability in the application will not be that much difficult. By having some knowledge of programming, some features of the application might be converted to a new version.

4.2.4 Usability

Usability requirements deal with ease of learning, ease of use, error avoidance and recovery, efficiency of interactions, and accessibility. This application has options that are easy to remember, so user can easily interact with this application. The app has error detection facility.

4.2.5 Consistency

Consistency helps to reduce the learning time for a product since user gets familiar with the given experience. The app provides consistency both in terms of visual design and experience.

4.2.6 Portability

It's an android application so that can be run on all android phones. So the system is portable.

4.2.7 Performance

The performance of application can be increased if users use all the features with good internet.

5 External Interface Requirements

5.1 Software Requirements

- Windows 8 or higher
- Android studio 4.0.5
- Firebase Database
- PyCharm

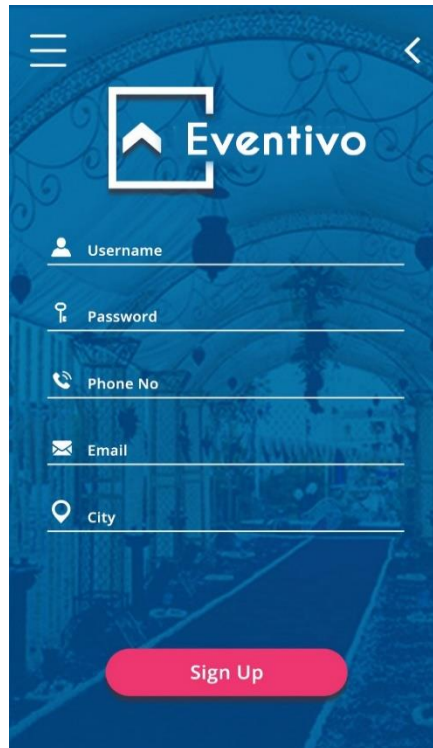
5.2 Application Interface

Splash Screen



Figure 2: Splash Screen

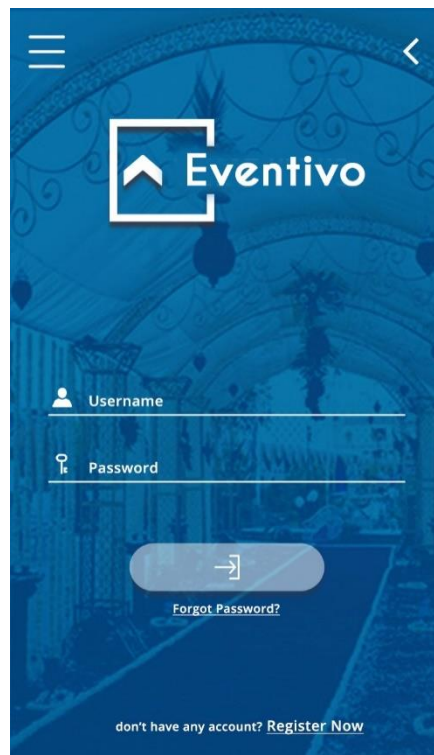
Sign Up Screen



The Sign Up screen features a blue background with a faint architectural pattern. At the top left is a hamburger menu icon, and at the top right is a back arrow. The Eventivo logo, consisting of a white house icon inside a square frame followed by the word "Eventivo", is centered at the top. Below the logo are five input fields, each with an icon on the left: a person icon for "Username", a key icon for "Password", a phone handset icon for "Phone No", an envelope icon for "Email", and a location pin icon for "City". At the bottom center is a red rounded rectangular button with the text "Sign Up".

Figure 3: Sign Up Screen

Sign in Screen



The Sign in screen has the same blue background and top navigation elements as the Sign Up screen. The Eventivo logo is centered at the top. Below it are two input fields: "Username" with a person icon and "Password" with a key icon. In the center is a grey rounded rectangular button with a white right-pointing arrow icon. Below this button is the text "Forgot Password?" with a small downward arrow icon. At the bottom, the text "don't have any account? [Register Now](#)" is displayed, where "Register Now" is a blue hyperlink.

Figure 4: Sign in Screen

Home Screen

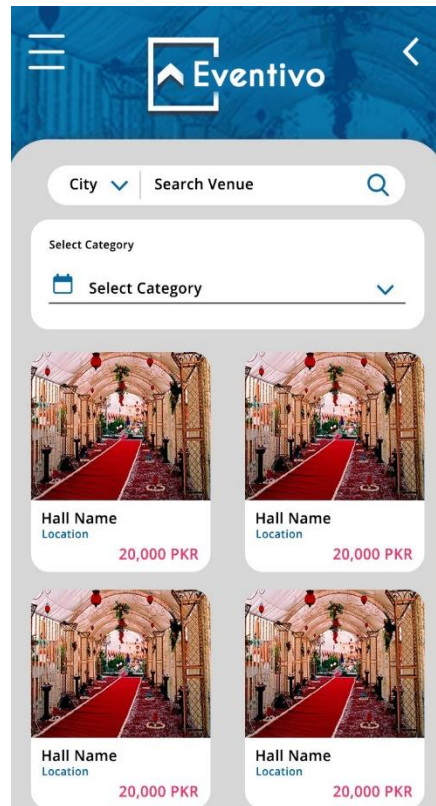


Figure 5: Home Screen

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