
Software Requirements Specification

for

Festeve

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

This document intends to provide sufficient informations adndetails about our project which is an Android application named Festeve.

1.2 Document Conventions

Text-Type	Font	Style	Size
Main-Heading	Times	Bold	18
Sub-Heading	Times	Bold	14
Others	Calibri	Regular	10.5

1.3 Intended Audience and Reading Suggestions

This SRS is specifically designed and dedicated to project development team which includes developer, coder, tester, project manager, user and the document writer.

a) Users : The document provides the full usability and functionalities of the project to its users and customers so to ensure that the application is meeting its requirements and that the users can actually rely on the system.

b) Developer : The project developer needs to refer to this document in order to be able to deliver what the user wants and what the project promised to deliver to its users.

c) Project manager : The document is required by the project manager to evaluate time to completely develop the project and estimate the cost easily. This will also help to cross check the functioning of the project and ensures reliability.

d) Tester : In order to test a project about its functioning, one needs to be fully aware of the features and functions that the project promised to deliver. So the tester needs to go through this so that he can validate its working.

e) Document Writer : The document lays down the format and notions to follow while writing down SRS. So this will be helpful to the one who is writing this document.

1.4 Product Scope

Purpose and Benefits:

The product being talked about in this document is a fest management android application, called as Festeve. The main purpose of this application is to build up a common space for both the fest organizers and the viewers or participants. The application is being developed due to an unorganized and incomplete details, in current apps, about a certain fest or its events to the students or audience. The fest organisers will also be benefited by the system as it would notify them instantly regarding new registrations, visitors, withdrawals etc and they will be able to manage accordingly.

Business Strategy:

In order to accomplish this goal, we have decided to use the Free Business Model where users will be able to download and use it for free of cost. This has been greatly discussed and we were encouraged to adopt this methodology as it would set up an initial customer base and likelihood among users. And the revenue flow will stick to in-app advertisements only.

1.5 References

This document is based on IEEE830 format and takes on references from the below mentioned sites:

IEEE830 : <http://home.agh.edu.pl/~jsw/io/IEEE830.pdf>

2. Overall Description

2.1 Product Perspective

The product being specified in this SRS is a replacement for certain existing systems as this app provides much more features and usability to its users than the contemporary apps. One of its perspective can be stated as that this system engages the two group of users, i.e., normal users and fest administrators in an indirect and systematic conversation without an actual dialogue, just through their preferences and priorities. The project greatly focuses on improving user experiences and free them of the strenuous and laborious tasks.

2.2 Product Functions

The functioning of the app is greatly influenced by the type of customer the app is dealing with. The app clearly lays out the features and functions of each user type and these users are bounded to avail those set of functionalities only. These functions are specified as follows:

- The visitor is able to browse and search for a particular event.
- The visitor is able to view the fest calender on the app.

- The visitor can sign up to avail more usability of the app.
- The registered users will get all the features and services of a visitor.
- The registered users can register for an event, withdraw for an event, get notifications, become a fest administrator.
- On upgrading to fest administrator, the user will be able to create a fest, modify it or cancel it. It will be able to create a registration form applicable to all set of events listed in the fest.
- The registered users can get notifications regarding the upcoming fests. The users will also be able to change the settings for notification system.
- The registered users will be provided a feature called 'Interested' for a particular fest.

Further the functions are described thoroughly in Section-3.

2.3 User Classes and Characteristics

The user class for this product is segmented into two groups; one is a just a visitor who has not signed up and the other is a registered user who has signed up agreeing to the terms and conditions of the app.

The visitor is one who visits the app, checks or browse for an event or fest and views the fest calendar. The visitor can become a registered user and get more usability from the app.

The registered user gets in all the features of visitor but in addition gets more features and functions. The registered user can also become a Fest Administrator and get to organise a fest, listing all its details along with appending a registration form. The fest administrator can also seal dates for its fest in fest calendar.

2.4 Operating Environment

Software Requirement :

- Operating system - Windows 8.1, Linux
- Developing Environment - Android Studio
- Back-end -SQLite
- Front-end - XML
- Programming language -JAVA

Hardware Requirements:

- PC with 512 MB RAM, Pentium P3/P4, 20/40 GB Hard disk.
- Android Smartphone

2.5 Design and Implementation Constraints

The database should appropriately distinguish between the registered users and Fest Administrators so that their functionalities are not intermixed.

Till now we have come across with this point only. But the discussion and analysis is in progress and will be covered thoroughly later.

2.6 User Documentation

TBD

2.7 Assumptions and Dependencies

The users have Android Smartphones with internet connectivity. The users are interested in taking part in fests or want to visit the fests.

3. External Interface Requirements

3.1 User Interfaces

- The front page opens to all the users and gives limited features and options like viewing fest calendar, browsing a fest, option to sign up, view list of fests and its details.
- If the user is registered one then, several options on the top of the app will appear which include notifications, settings and browse.
- A button for side panel will also be there which will have options like view fest calendar, registered events and interested events
- Registered events option will load a new page having related information and a withdraw button.
- Interested events will load in a page having two options enroll as visitor and enroll as participant
- The rest of the main space will be filled with the 'Fest Feeds'.
- If the user is a fest administrator, then he will have additional options like create a fest, modify a fest, and cancel a fest in his side panel.

3.2 Hardware Interfaces

The Internet Connection through modem or wifi-router will be needed to record the user data to the database so that the changes are saved.

3.3 Software Interfaces

TBD

3.4 Communication Interfaces

TBD

4. System Features

Here are the detailed features provided by the application :

4.1 Sign Up

4.1.1 Description and Priority

The log in feature lets a user to sign up and access all the features.

High Priority
Benefit : 9/9
Penalty : 3/9
Risk: 1/9
Cost : 3/9

4.1.2 Stimulus/Response Sequences

The user needs to fill in required details for one time sign up like name, phone number and other things. Once the fields are filled, he will be directed to a page for made for registered user having the additional functionalities. He can then do whatever he wants.

4.1.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
LR-1	Input	This lets the user to fill in data and information in the required field.
LR-2	Ver	The system should verify all the fields and if valid then store the data in database
LR-3	Prompt	The system should display errors to the users so that he can correct them
LR-4	Disp	The system should display acknowledgement if successfully created.

4.2 Browse

4.2.1 Description and Priority

The browse feature lets a user to query about one or more fest details and lets him browse through the list of fests corresponding to the input entered.

Medium Priority

Benefit : 7/9

Penalty : 1/9

Risk: 2/9

Cost : 3/9

4.2.2 Stimulus/Response Sequences

The user needs to enter any fest name or college/university name as an input and the app displays the result of the corresponding fest details.

4.2.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
BR-1	Input	The system should accept only strings and specify this thing to the user.
BR-2	Search	The system should search over the database to find appropriate result and it should be fast enough.
BR-3	Display	The system should display the required result to the user.

4.3 View Registered events

4.3.1 Description and Priority

This feature will keep record of events which are enrolled by the registered users and will contain all the details about each of those fests.

Low Priority

Benefit : 6/9

Penalty : 1/9

Risk: 2/9

Cost : 2/9

4.3.2 Stimulus/Response Sequences

The user when selects the option in the side panel to view registered events, he is directed to a page having fest name, college name, his registered event, date, location, and paid amount. He further has an option to withdraw from that particular event.

4.3.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
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VR-1	Click	To view the registered events, the user need to click this option in the side panel of the app.
VR-2	Load	The system should fetch all the information related to this user and display it.

4.4 Interested Event

4.4.1 Description and Priority

The application maintains a separate list displaying all the fests he is interested in so as to make it easy for them to register later and gets notified about it every time he open up the app.

Medium Priority
Benefit : 7/9
Penalty : 1/9
Risk: 2/9
Cost : 0/9

4.4.2 Stimulus/Response Sequences

The user can select the fest he is interested in and click on 'Interested' button provided in-front of the fest name. The action is stored in database and this fest gets added to his list.

4.4.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
IR-1	Click	To view the registered events, the user need to click this option in the side panel of the app.
IR-2	Load	The system should fetch all the information related to this user and display it.

4.5 User Notification

4.5.1 Description and Priority

This feature will notify the registered user about events in which he is interested or he is registered. This feature will also give the notification of the fest which are in nearby areas.

Medium Priority
 Benefit : 9/9
 Penalty : 5/9
 Risk: 2/9
 Cost : 2/9

4.5.2 Stimulus/Response Sequences

The system records for the changes in the fests table and then save those changes to the user's notification table. Whenever the user access net then the notification will pour in.

4.5.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
UR-1	CC	The system checks continuoulsy for the chnages in fests table
UR-2	Rec	The changes gets recorded in the notification table of the users.
UR-3	Disp	Displays those notification to the users.

4.6 Register

4.6.1 Description and Priority

The register feature lets a registered user to enroll itself in any event it is interested in.

High Priority
 Benefit : 8/9
 Penalty : 3/9
 Risk: 3/9
 Cost : 4/9

4.6.2 Stimulus/Response Sequences

The user needs to select the fest he is interested in and then click on the register button which will fetch him a form wherein he needs to fill in the required details. These details will be recorded in database and and the new entry will be notified to the fest admin.

4.6.3 Functional Requirements

REQ_ID	NAME	DESCRIPTION
RREQ-1	Sel-eve	The user mus select the event he want to participate in.

RREQ-2	Click register	The user should click register button to land on registration page.
RREQ-3	Fill	Displays the registration form to the user where he needs to fill the required details.
RREQ-4	Ack	This acknowledges the user that he has successfully completed his registration
RREQ-5	Add to list	The event is then added to the registered event list of that user.
RREQ-5	Notif_admin	This then notifies the admin about the new registration.

4.7 Withdrawals

4.7.1 Description and Priority

This feature will let user to withdraw his registration from an registered event.

High Priority
Benefit : 8/9
Penalty : 3/9
Risk: 1/9
Cost : 4/9

4.7.2 Stimulus/Response Sequences

The user needs to select the event in which he is enrolled and then touch the withdrawals button to cancel his registration

4.7.3 Functional Requirements

WR_ID	NAME	DESCRIPTION
WR-1	Select Fest	The user must select the fest/event from which he wants to withdraw his name.
WR-2	Click	The user must click the withdraw button to cancel it
WR-3	Refresh	The system should then refresh the tables and display the changes.

4.8 Create Fest

4.8.1 Description and Priority

This feature will let the fest admin to create fests.

High Priority
Benefit : 8/9
Penalty : 3/9
Risk: 1/9
Cost : 4/9

4.8.2 Stimulus/Response Sequences

The fest admin must hit the create fest button in his side panel. He must then add details about the fests and hit submit button. The admin should also make a registration form for the fest.

4.8.3 Functional Requirements

CRQ_ID	NAME	DESCRIPTION
CR-1	Fill	Fill in the details and the system must store them.
CR-2	Make form	The user must make the form applicable for all events of the fest.
CR-3	Update	The system should update the fest table and the new fest should be added to the fest feed column of the application.

5. Other Nonfunctional Requirements

Requirement ID	Name	Description
5.1	Performance Requirements	<ul style="list-style-type: none"> The software will be development based on the concepts of OOPs. The performance of every function and every

		<p>module should well defined and visible.</p> <ul style="list-style-type: none"> • To improve accuracy and reliability, testing must be done at each level of designing.
5.2	Safety Requirements	<ul style="list-style-type: none"> • There are no safety requirements till now.
5.3	Security Requirements	<ul style="list-style-type: none"> • Proper security regarding the user data must be taken care of. • The data should be properly recorded in users database.
5.4	Software Quality Attributes	<ul style="list-style-type: none"> • Reliability - The software works efficiently and produce the results satisfying users and so increases reliability of the system. • Availability - The software is easily available to all Android Smartphone users. • Accuracy - The software functions accurately. • Simple – The software will have easy UI so the users are able to grab the features.

6. Other Requirements

Not discovered till now

Appendix A: Glossary

app : application

admin : administrator
ver : verification
disp:display'
sel-eve : select event
Ack : Acknowledgement
Notif_admin : Notify administrator

Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

Appendix C: To Be Determined List

The sections which we didn't cover in this version of SRS are :

- 3.3
- 3.4
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