Software Requirement Specification

for

Share Karo App

Version 1.0 approved

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1. Introduction

1.1 Purpose

The purpose of our project is to provide a platform for university students to sign up and login to share their modes of entertainment like movies, novels and TV Series that are use for leisure in hostel. It's helpful in sharing academic resources, which would be beneficial for juniors and also provides them with conveyance sharing facility to a common route. The app is local area or university specific.

1.2 Document Conventions

IEEE convention is taken into consideration while writing this document. Arial font with 11font size is used for writing this document so as to make it apprehensible and eloquent. This document gives each and every requirement statement equal priority and higher-level priorities are highlighted wherever needed.

1.3 Intended Audience and Reading Suggestions

The document is intended for various readers such as developers, testers, project managers and documentation writer. App users are target audience and end viewers for the entire documentation and product. The SRS documents contains an content page where each and every requirement is sequenced from top to bottom i.e. from overview to sub-sections and documented according to the priorities

1.4 Product Scope

"Share Karo App" is specifically designed for university students to provide them with a eloquent platform to share their means of leisure in hostel with other students. Its helps the students to know and interact with each other and exchange shareable items like novels, music, TV Series and study materials. It helps the student to socialize with people beyond their circle. The app is a generic sharing and socializing portal for local area where physical connection is easily established. The app majorly focuses on university students.

1.5 References

Software Requirement Specification documents is written with reference to IEEE standards of documentation. Argo UML software is used for designing use case diagrams.

The references are:

1) https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiD9syNjpbPAhWLt48KHbmQCUAQFggdMAA&url=http%3A%2F%2Fwww.csse.monash.edu.au%2F~sitar%2FCSE4002%2FLectures%2Fsrs_template-1.doc&usg=AFQjCNF2DZX7_wbYlZyeAcrgjpYYTOhF6g

2) http://searchsoftwarequality.techtarget.com/answer/Software-requirements-specification-and-the-IEEE-standard

3) https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&cad=rja&uact=8&ved=0ahUKEwiD9syNjpbPAhWLt48KHbmQCUAQFggvMAM&url=https%3A%2F%2Fredmine.studenti.famnit.upr.si%2Fattachments%2Fdownload%2F138%2FIEEE%2520Standard%2520SRS%2520Template.doc&usg=AFQjCNEZkGaUM7s_C5yXUV6hbbgJ3kfQhw

4) https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=6&cad=rja&uact=8&ved=0ahUKEwiD9syNjpbPAhWLt48KHbmQCUAQFgg6MAU&url=http%3A%2F%2Fitech.fgcu.edu%2Ffaculty%2Fzalewski%2Fism4331%2Fwritingsrs.doc&usg=AFQjCNFCiaSyICS3fjOGPtLJAZxBmAXPJA

5) https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjI7PuqjpbPAhVJPY8KHeydDTkQFggbMAA&url=https%3A%2F%2Fwww.ibm.com%2Fdeveloperworks%2Fcommunity%2Fwikis%2Fform%2Fanonymous%2Fapi%2Fwiki%2F336d1dbb-5203-4eb3-8542-f4a2d1af056c%2Fpage%2Fd9b0b712-ac9d-43ac-b430-0bc76b7edc31%2Fattachment%2F921e2bcf-2349-42d3-976b-0e23f7d6ff61%2Fmedia%2Fsrs%2520format.pdf&usg=AFQjCNG5oXPXYDtLmBCD1S1bdInIIDQ5Og&bvm=bv.133178914,d.c2I

6) http://techwhirl.com/writing-software-requirements-specifications/

7) https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=10&cad=rja&uact=8&ved=0ahUKEwjI7PuqjpbPAhVJPY8KHeydDTkQFghTMAk&url=https%3A%2F%2Fcs.gmu.edu%2F~dfleck%2Fclasses%2Fcs421%2Fspring10%2Fproject%2Fsrs_template.doc&usg=AFQjCNFLKrMJFVl2haJg_G4905Q2PCddnQ&bvm=bv.133178914,d.c2I

2. Overall Description

2.1 Product Perspective

The idea of the product was carved out on the basis of needs and requirement of the university students who are unable to acquire the entertainment stuff due to lack of contacts and communication. Various universities across the country has implemented this idea on small scale and now it is being developed as a whole new model with features like sharing, socializing and conveyance sharing. App will act as a interface between the two users for sharing on basis of mutual consent and interest.

2.2 Product Functions

The functions that will be performed by the products are:

The user can sign up through university/domain login and can share their email/contacts if they want so that other users can contact. Users are required to describe their interest in type of TV Series or particular movie or novel garner. The can share study materials ppts or pdf for the juniors. The user can sketch the details of their journey and check if anyone's matches with theirs. Users can search for their needs under headings like entertainment, studies and conveyance and if their requirement matches with any uploaded ones can then contact the consent person. The user can send request to the consent person for his/her contact.

2.3 User Classes and Characteristics

The main focus of the app is upon the students of a specific area. Other class can be of faculty and parents who are also interested in sharing entertainment stuff and conveyance. Hostel students will be the most frequent customers as they wallow in movies, novels and TV Series, as their means of entertainment in hostel. The app can be used in an office or and housing society. Our app doesn't require technical knowledge as it is mainly focuses on leisure activities.

2.4 Operating Environment

The software will be made compatible enough to run on all versions of widows, Linux and iOS. The app will fully function on android environment as the software is designed in social fashion.

2.5 Design and Implementation Constraints

The app is area specific, therefore require login through a specific domain/mail. The privacy policy provides security and decision-making power to users weather they want to share there details or files on the portal or with other user. The app is design with lower RAM requirements and requires users to stay online for updates. The app is only designed in English language and the database is highly secured. The app only provided the contact details of the users and no virtual chatting.. The app is not organization specific and doesn't need to be managed by the institution. Programming is done in html and java script.

2.6 User Documentation

"Share karo app" is designed in apprehensible and eloquent manner for the users. The app has a self-start guide within.

2.7 Assumptions and Dependencies

The idea of the App is craved out taking in consideration that people will be willing to share their means of entertainment with others. Surveys have been conducted for the same and results have been great. The idea is totally original and designed in a different way.

3. External Interface Requirements

3.1 User Interfaces.

3.2 Hardware Interfaces

The font-end is designed with the help of html, CSS and Java Script. It acts as a interface between the user and main purpose of the app. The app's database is stored in Mongo database with node JS scripting. the data flow is easy and visual studio software is used for programming.

3.3 Software Interfaces

The following frameworks is used to built the software:

1) Mongo database is used for database management.
2) Programming in languages like html, CSS, Java Script is done upon Visual Studio 2015 Enterprise software
3) The software is majorly designed for Microsoft windows OS. It would be a cross-platform that will be able to run on Linux, iOS as well.
4) The Node JS framework: Integration with other Visual Studio features and 3 rd party tools. (Node.js, io.js, JavaScript, TypeScript, HTML, CSS, and JSON support)
5) Protocols for communication that interfaces between front-end and back end codes.

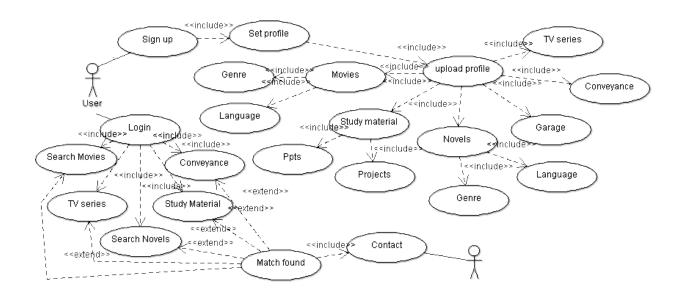## 3.4 Communications Interfaces

1) Login details: E-Mail login
2) Cross platform on majorly all browsers
3) Sign-up and user information via forms created by Java Script.
4) HTTP is defined as the major communication standard.

4. System Features

Various features possessed by the app are:
- TV Series sharing
- Novel sharing
- Movie sharing
- Study material sharing
- Conveyance sharing

Sr No	Attributes	Ids
1	Sign up	Ai1
2	Set Profile	Ai2
3	Upload Profile	Ai3
4	Movies	Ai4
5	Genre	Ai5
6	Language	Ai6
7	Study Material	Ai7
8	ppts	Ai8
9	Projects	Ai9
10	Novels	Ai10
11	Genre	Ai11
12	Language	Ai12
13	TV Series	Ai13
14	Garage	Ai14
15	Conveyance	Ai15
16	Login	Ai16
17	Search movies	Ai17
18	Novels	Ai18
19	TV Series	Ai19
20	Study Material	Ai20
21	Conveyance	Ai21
22	Match found	Ai22
23	Contacts	Ai23

4.1 TV Series sharing

4.1.1 Description and Priority

Students mainly hostler indulge themselves in watching TV Series (American). They love to know about what's happening around the world in get a insight into different kind of lifestyle. They get to know about the lifestyle of people outside their country. The app provides them with option to put up preferred TV Series or the genres they like the most and search what they want to watch.

4.1.2 Stimulus/Response Sequences

1) The users can sign up and upload their collection of TV series. The series will be categorized according to genres and different languages.

2) The user can put up a request of a particular series they want to watch. If their genre is matched with others, the user can put up a request to those users

3) If the request of one user is matched with other and they are willing to share their contacts then their contacts are made visible .

4.1.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
R-4.1.1	Login in	Allows user to login	Compulsorily required
R-4.1.2	Update TV-series preferences like genres, languages.	Lets people reach out to you looking at your list.	Needs to be correct in order to stimulate exchange process
R-4.1.3	Look up for needed TV series	Helps to find people with similar interests.	The user with matched interests should be willing to share the contact.

R-4.1.4	**Post a request to a particular user**	**When matched, the user can post request to a particular person**	**To be decided**

4.2 Novel sharing

4.2.1 Description and Priority

The students mainly hostlers indulge in reading in their leisure time. They love to read in order to improve their vocabulary and reading skills. It's again in a high priority level of the app. User can put up their collection of books on the app and search for the ones they like to read

4.2.2 Stimulus/Response Sequence

1) The users can sign up and upload their collection of novels. The novels will be categorized according to genres and different languages.

2) The user can put up a request of a particular novel they want to read. If their genre is matched with others, the user can put up a request to those users

3) If the request of one user is matched with other and they are willing to share their contacts then their contacts are made visible.

4.2.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
R-4.2.1	**Login in**	**Allows user to login**	**Compulsorily required**
R-4.2.1	**Update novels preferences like genres, languages.**	**Lets people reach out to you looking at your list.**	**Needs to be correct in order to stimulate exchange process**

Sequence number	Requirement	Service provided	Constraints
R-4.2.3	Look up for needed novels	Helps to find people with similar interests.	The user with matched interests should be willing to share the contact.
Req 4.2.4	Post a request to a particular user	When matched, the user can post request to a particular person	To be decided

4.3 Movie sharing

4.3.1 4.2.1 Description and Priority

The students mainly hostellers indulge in watching movies during their leisure time in hostels. It's again put in high priority level of the app. Users put up their collection of movies on the app and search for those movies they fell like watching.

4.3.2 Stimulus/Response Sequence

1) The users can sign up and upload their collection of movies. The movies will be categorized according to genres and different languages.

2) The user can put up a request of a particular movie they want to watch. If their genre is matched with others, the user can put up a request to those users

3) If the request of one user is matched with other and they are willing to share their contacts then their contacts are made visible.

4.3.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints

R-4.3.1	**Login in**	**Allows user to login**	**Compulsorily required**
R-4.3.2	**Update movie preferences like genres, languages.**	**Lets people reach out to you looking at your list.**	**Needs to be correct in order to stimulate exchange process**
R-4.3.3	**Look up for needed movies**	**Helps to find people with similar interests.**	**The user with matched interests should be willing to share the contact.**
R-4.3.4	**Post a request to a particular user**	**When matched, the user can post request to a particular person**	**To be decided**

4.4 Study Materials Sharing

4.4.1 Description and Priority

Students prefer to get their course ppts and project materials on Internet. Our app provides the facilities to update the reference materials for their juniors. Its put on a low priority level of our app. Students can also search for the reference materials they require uploaded by their seniors

4.4.2 Stimulus/Response Sequence

1) Users can sign up an put up the collection of materials like ppt and projects they have. The materials will be categorized according the courses. User can also search for the materials they want.

2) If user needs finds a particular project under a course then they can even download it from there.

4.4.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
R-4.4.1	**Login in**	**Allows user to login**	**Compulsorily required**

Sequence number	Requirement	Service provided	Constraints
R-4.4.2	Update their projects to be available for download.	Lets people download looking at the list.	Needs to be correct in order to stimulate exchange process
R-4.4.3	Look up for needed projects and ppts.	Lets user to download their required	Simple download

4.5 Conveyance sharing

4.5.1 Description and Priority

Students prefer to share a cab to a common destination in order to reduce the travel cost. It's again put up in a low priority level of the app. Students can put their travel details like date and time of journey and destination and search for the users travelling around same time. This would provide them with a option to share the conveyance.

4.5.2 Stimulus/Response Sequence

1) Students can login an put up the details of their journey on the app/portal like date and time of travel, source and destination and search for the user of same interest.

2) If the users wants to pool a conveyance and finds a convenient conveyance schedule uploaded by some other user than there contacts are made visible.

4.5.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
R-4.5.1	Login in	Allows user to login	Compulsorily required
R-4.5.2	Update their travel schedule.	Lets people to pool up conveyance.	Needs to be correct in order to stimulate pooling.
R-4.5.3	Look up for people with similar	Lets user to obtain contacts of the	Contact display.

	travelling plans.	person for pool.	

5. Other Nonfunctional Requirement

5.1 Performance Requirements

Performance requirements are:
- The app will be a hit only when users are willing to share their stuff and get in touch will new people.
- The app's performance will be better if it works in particular location and physical sharing is possible.
- App design is completely apprehensible and eloquent for the users so as to make it easy for the users to use it.
- The sign up function (4.1.1, 4.2.1, 4.3.1, 4.4.1, 4.5.1) requires a user login through Gmail (google accounts) or FaceBook.
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5.2 Safety Requirements

The app is designed keeping in mind the sense of sharing. It the users don't want to share their contacts then they can only provide their email id, sharing of contacts can only be done on users consent. The app admin or designers are allowed to remove and delete contents; they can disable accounts if they feel any thread to users and their account.

5.3 Security Requirements

The app is designed in a way to provide security to user information and accounts. Without the consent of the user their personal information will not be visible to other users.

5.4 Software Quality Attributes

Some quality attributes of the app are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible.

5.5 Business Rules

The admin of the database has the right to remove or delete any users account or to take back the usage rights if they try to bleach the privacy.

6. Other Requirements

Since the app is locality specific, the app can't be generalized across demographics. Can only be used in physical space areas. The database doesn't require a physical stake hold.