
Software Requirements Specification

for

Share Karo App!

Version 1.0 approved

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Table of Contents

Table of Contents	ii
Revision History	ii
1. Introduction.....	1
1.1 Purpose	1
1.2 Document Conventions.....	1
1.3 Intended Audience and Reading Suggestions.....	1
1.4 Product Scope	1
1.5 References.....	1
2. Overall Description	2
2.1 Product Perspective	2
2.2 Product Functions	3
2.3 User Classes and Characteristics	3
2.4 Operating Environment.....	3
2.5 Design and Implementation Constraints.....	3
2.6 User Documentation	4
2.7 Assumptions and Dependencies	4
3. External Interface Requirements	4
3.1 User Interfaces	4
3.2 Hardware Interfaces	5
3.3 Software Interfaces	5
3.4 Communications Interfaces	6
4. System Features.....	7
4.1 System Feature 1	Error! Bookmark not defined.
4.2 System Feature 2 (and so on).....	Error! Bookmark not defined.
5. Other Nonfunctional Requirements	12
5.1 Performance Requirements	13
5.2 Safety Requirements	13
5.3 Security Requirements	14
5.4 Software Quality Attributes.....	14
5.5 Business Rules	14

Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

Life is a little more fun when we are together rather alone. This app connects the university students and let them share with each other novels, movies, T.V Series and academic resources. Little sharing always brings a sigh of relief in this hectic life. This app is university specific.

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1.2 Document Conventions

The SRS document was written on the IEEE guidelines. Font specifications of the document are as follows- Type: Arial, Size: 11. Every requirement statement is equally prioritized. However, high level requirements are highlighted wherever required to make the document user-friendly and comprehensible.

1.3 Intended Audience and Reading Suggestions

This SRS document is meant for readers ranging from project managers, testers, marketing people, developers and documentation writers. Users or the consumers of the product are the target audience. The SRS is indexed and the sequence is top-down approach starting from Overviews and Sub-Sections are further inherited and documented according to priorities.

1.4 Product Scope

“Share karo app” provides a platform to share anything and everything a college student needs, wants and desires ranging from novels, movies, T.V Series, academic resources. This app will indirectly also help to establish physical contact with many new people and will expand the definite social circle every student has. This app can also be used for generic sharing where there is a huge possibility for physical contact. However target audience for this app is university students.

1.5 References

This System Requirements Specification document majorly refers to IEEE standards of documentation. The Use case documents are designed over Argo UML software and derived from the same.

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_wbYlZyeAcrGipYYTOhF6g
- 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%2Fit ech.fgu.edu%2Ffaculty%2Fzalewski%2Fism4331%2Fwritingsrs.doc&usg=AFQjCNFCiaSylCS3fjOGPtLJAZxBmAXPJA>
- 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

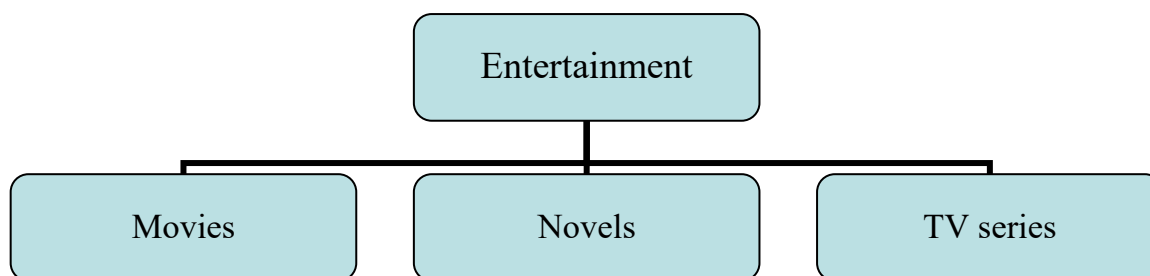
With means of entertainment mainly going digital like T.V shows, movies, sometimes due to certain constraints like network problem etc, everything is not available to everyone. Keeping this in mind seed of this app came in our mind. You can share what you want in this app, and if the fellow user of the app has what you want, he can fulfill your requirement. This kind of app is functional in many colleges and universities but we have upgraded the version by bringing in new features like cab sharing

2.2 Product Functions

The functions that product is capable of performing are:

The user needs to sign in from University domain to enter the app and if comfortable can share their email id's and contact details. Here user needs to be specific about what kind of movies, novels, T.V series he is interested in. This will make it easy for him to search what he wants. User can also upload ppt's , books and any other academic resource for his/her juniors. The user can also look under specified headings like entertainment etc to see if his requirement matches with any other and then contact the particular person. User can also request for the contact detail of the required person.

For example, the Entertainment section is presented as:



2.3 User Classes and Characteristics

“Share karo app” primarily focuses on students with local contacts. The other users of this app can be faculty or teachers with similar interests in entertainment category as those of college students. Other users of this app can be people of housing colonies. Main customers of this app are primarily hostel students where there is always a constant need of shows, movies, novels etc. It can also serve for clubs because it is mainly focused on leisure activities and not any technical knowledge.

2.4 Operating Environment

The software can operate on all Windows, Linux and iOS operating systems over all current versions. Since, the software is designed in a social fashion, the app will function fully on android environment.

2.5 Design and Implementation Constraints

The app is specific to a particular location or area. Hence, the software requires a mail system login. Privacy is a very integral part of this app and user has the choice whether he wants to share his stuff or contact/email id on the portal with other person or not. This app has been designed with keeping in mind that RAM requirements should be low and also user has to be online for updates. Database of the software is highly secured due to obvious privacy issues. The app/software is designed in English language only and is designed to provide the users with contact information, not involving

any virtual chat station protocols. HTML and JS have been used for programming purposes and basic html standards will be provided. As the app is not university based so any organization maintenance would not be required.

2.6 User Documentation

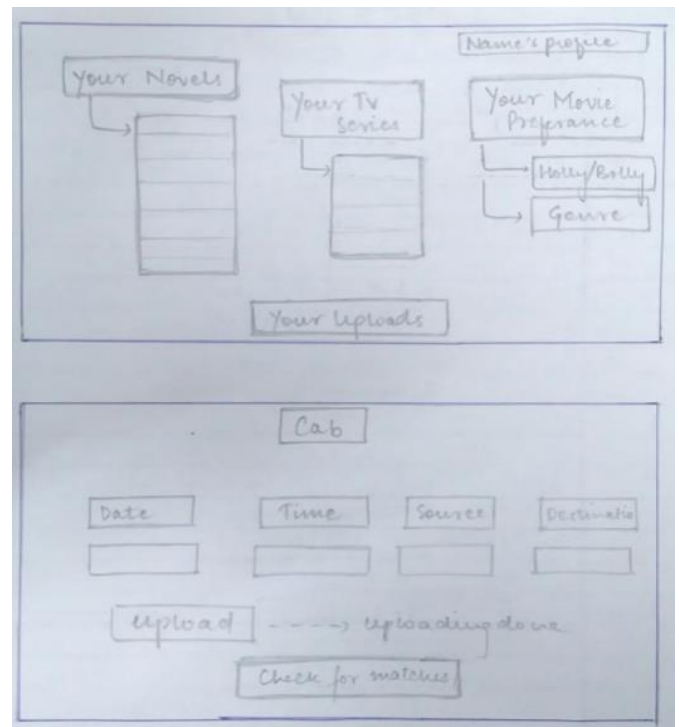
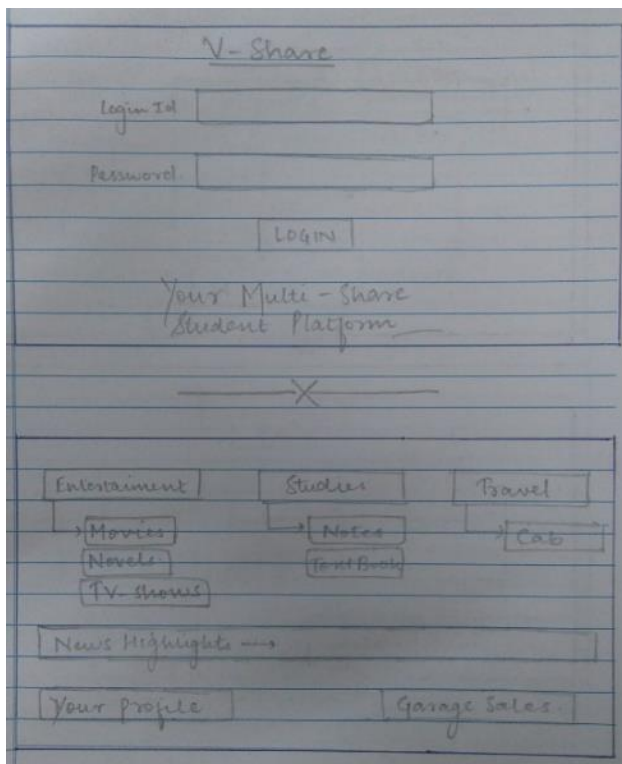
We have focused on app to be comprehensible. Any kind of guide will not be required and with start of app user will automatically grasp the working of app.

2.7 Assumptions and Dependencies

The assumption while designing the app was that people would like to share their entertainment and leisure resources with others. Surveys have been carried out for the same and results have been positive. The design is completely original and planned only the language/ software has been implied.

3. External Interface Requirements

3.1 User Interfaces



Movies

Language	Genre	Name
<input type="radio"/> Hollywood	<input type="radio"/> Romantic	
<input type="radio"/> Bollywood	<input type="radio"/> Rom Com	
<input type="radio"/> French	<input type="radio"/> Horror	
↓	<input type="radio"/> Sci-Fi	
	↓	

TV Series

Name:

Novel

Name:

Match found

1) XYZ	<input type="text" value="Email"/>	<input type="text" value="Phone"/>
2) ABC	<input type="text" value="Email"/>	<input type="text" value="Phone"/>
3) PQR	<input type="text" value="Email"/>	<input type="text" value="Phone"/>
4) STU	<input type="text" value="Email"/>	<input type="text" value="Phone"/>

STUDIES

Text Books	PPT/PDF	PROJECTS
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓
↓	↓	↓

Garage Sale

Contact:

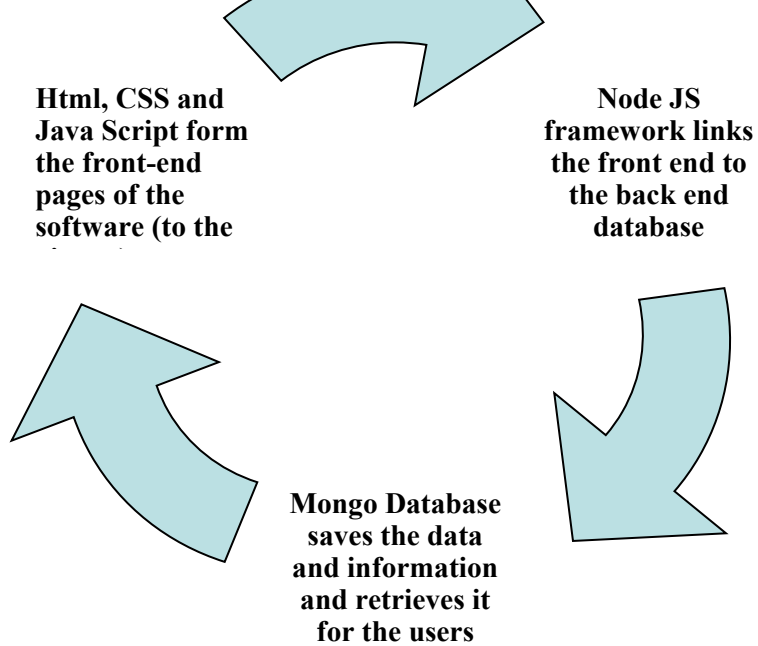
3.2 Hardware Interfaces

HTML, CSS and java-script have been used for front end programming purposes. This will act as window of the app for the user Node JS links the front end to mongo database. The data flow is simple and is defined on the Visual Studio software framework with interactive coding.

3.3 Software Interfaces

The software is built with the definition of following frameworks:

- 1) Mongo DB framework has been used to design database framework.
- 2) HTML, CSS, Java Script, Node js are built on Visual code 2015 enterprise software.
- 3) Despite software being built on Microsoft Windows OS, it has been built as cross platform for linux, Mac also.
- 4) Node JS framework is as follows: Integration with other Visual Studio features and 3rd party tools. (Node.js, io.js, JavaScript, TypeScript, HTML, CSS, and JSON support)
- 5) Interface between front end codes and back end codes is carried out by these communication protocols.



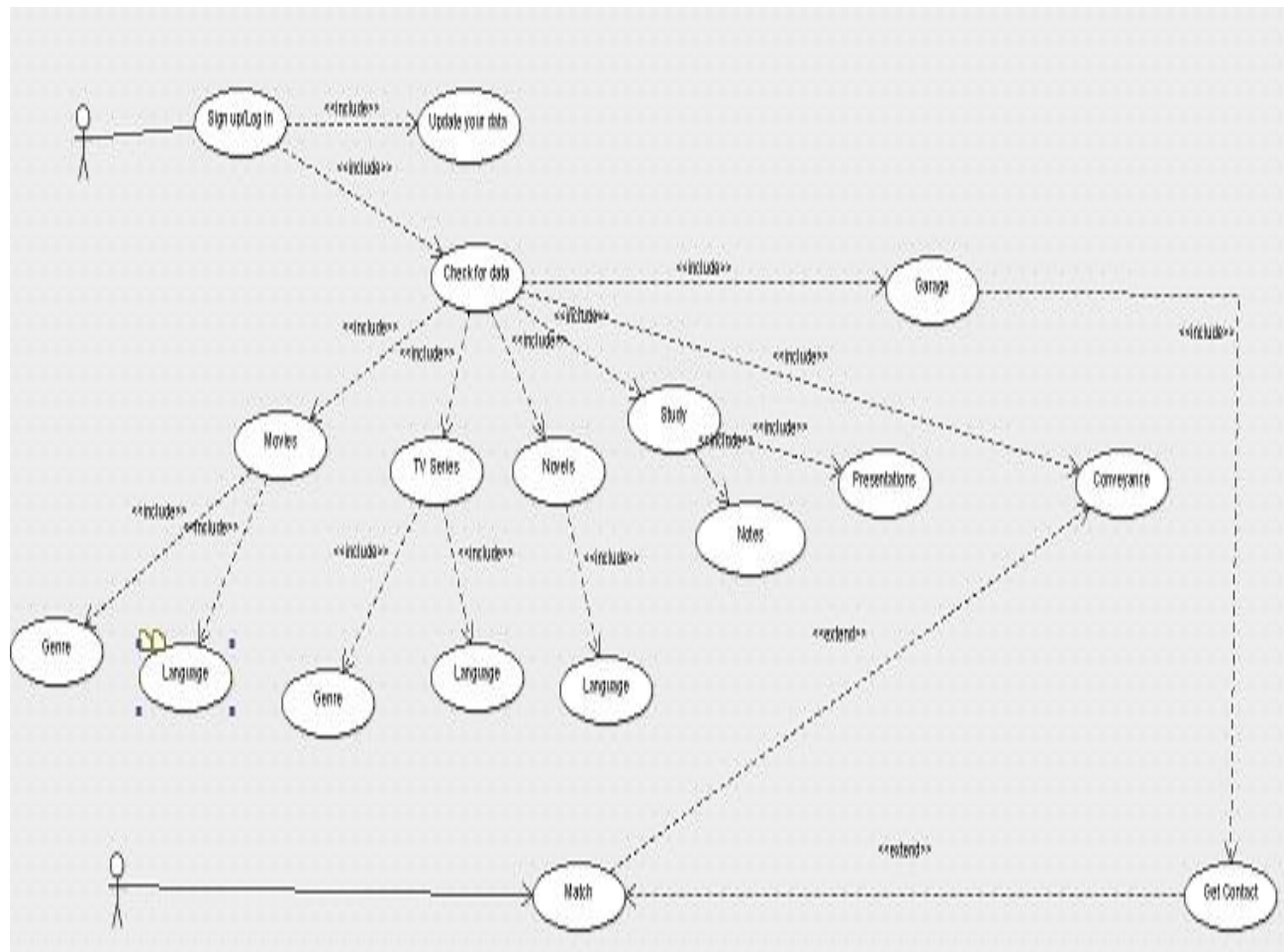
3.4 Communications Interfaces

The product has following requirements:

- 1) E-mail login.
- 2) Cross platform on all browsers.
- 3) User and sign-up details via forms created by Java Script.
- 4) HTTP is taken as the major communication standard.

Users
Name Login ID Password Movie Interest Novel Interests TV Series
Get match ()

System Features



4.1 Movie Sharing

4.1.1 Description and Priority

Students living in hostels pass their time mainly in front of laptop screens watching Hollywood or Bollywood movies. Hence, this feature is on the top of priority list. This app lets them share their preferred movies and ask for movies they would like having or watching.

4.1.2 Stimulus/Response Sequences

- User needs to sign up and update his genre specification and requirement. Movies are going to be categorized in languages and genre to make it easy to update the movie specifications for the user
- If user needs a movie of a particular genre, he can specify it, match it with already genre uploaded and make a demand to other user.
- If requirement of a user is fulfilled by the other user and both agree to share the movie, then their contacts are made visible.

4.1.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
A.Reg 4.1.1	Sign up	Allows user to login	Compulsorily required
A.Reg 4.1.2	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
A.Reg 4.1.3	Look up for needed movies	Helps to find people with similar interests.	The user with matched interests should be willing to share the

			contact.
A.Reg 4.1.4	Post a request to a particular user	When matched, the user can post request to a particular person	TBD

4. Novel Sharing

4.2.1 Description and Priority

Hostellers majorly indulge their free time by reading various kind of novels for fun as well as expanding their mindsets. This is why this feature is on the top of the priority list

4.2.2 Stimulus/Response Sequences

- User needs to sign up and update his genre specification and requirement. Novels are going to be categorized in languages and genre to make it easy to update the novel specifications for the user.
- If user needs a novel of a particular genre, he can specify it, match it with already genre uploaded and make a demand to other user.
- .
- If requirement of a user is fulfilled by the other user and both agree to share the novel, then their contacts are made visible.
- .

4.2.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
A.Reg 4.2.1	Sign up	Allows user to login	Compulsorily required
A.Reg 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

A.Reg 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.
A.Reg 4.2.4	Post a request to a particular user	When matched, the user can post request to a particular person	TBD

4.1 TV-Series Sharing

4.3.1 Description and Priority

Hostellers majorly indulge their free time by watching various kind of T.V Series for fun as well as expanding their mindsets. This is why this feature is on the top of the priority list

4.3.2 Stimulus/Response Sequences

- User needs to sign up and update his genre specification and requirement. T.V series are going to be categorized in languages and genre to make it easy to update the T.V series specifications for the user
- If user needs a novel of a particular genre, he can specify it, match it with already genre uploaded and make a demand to other user.
- If requirement of a user is fulfilled by the other user and both agree to share the T.V series, then their contacts are made visible.

4.3.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
A.Reg 4.3.1	Sign up	Allows user to login	Compulsorily required
A.Reg 4.3.2	Update TV-series preferences like	Lets people reach out to you looking	Needs to be correct in order to stimulate exchange

	genres, languages.	at your list.	process
A.Reg 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.
A.Reg 4.3.4	Post a request to a particular user	When matched, the user can post request to a particular person	To Be Decided

4.2 Study Material Sharing

4.4.1 Description and Priority

After all the fun one has in campus, academics is still the priority. What better if we can get study material from someone, someone more experienced, our seniors. That's why this feature is on the low priority level of this app. This app allows you to share your ppt's etc for the reference of juniors and you can also see your senior's academic stuff.

4.4.2 Stimulus/Response Sequences

- Projects, ppts will be categorized as sub-categories under courses. User will log in and upload his project or any other study material under these categories.
- With all these sub-categories, user can easily download any study material he wants.

4.4.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
A.Reg 4.4.1	Sign up	Allows user to login	Compulsorily required
A.Reg 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
A.Reg 4.4.3	Look up for needed projects	Lets user to download their	Simple download

	and ppts.	required	
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4.3 Conveyance Sharing

4.5.1 Description and Priority

While travelling main priority of everyone is to slash down on costs as much as possible. This app lets you to share cab with others and that's why it is on low priority list of this app. You can share your travel schedule on this app and if it matches with some other's schedule you can pool in.

4.5.2 Stimulus/Response Sequences

- User needs to login and insert his/her travel details in the app and if some other user finds the schedule matching he can contact the user and they can pool together .
- Similarly, if the user needs to find the conveyance options he can login, search with other schedules and contact the concerned user .

4.5.3 Functional Requirements

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

4.4 Garage Sale

4.5.1 Description and Priority

In college life one is always in need of money and daily accessory items. There is another feature in this app with which you can share the pics of your reusable items and if someone wants it, he can contact the concerned user. This feature is on the low priority list of this app.

4.5.2 Stimulus/Response Sequences

- User needs to login for the app, click picture of his/her used item and upload in the app. So, anyone who wants the item can search for it in the app and contact the concerned user.
- If anyone wants an item, he/ she can choose it from the uploaded item and contact the concerned person.

4.5.3 Functional Requirements

Sequence number	Requirement	Service provided	Constraints
A.Reg 4.6.1	Sign up	Allows user to login	Compulsorily required
A.Reg 4.6.2	Update their selling item	Lets people to find what they want to sell	Needs to be correct and clear for better buyers
A.Reg 4.6.3	Look up for desired items.	Lets user obtain contacts of seller.	Contact display.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The performance requirements are stated as follows:

- 1) This app is useful for only those users who are open to knowing new people and expanding their horizon.
- 2) The app is successful for a local set of users where physical sharing or contact is possible between the users..
- 3) Comprehensibility and lucidity is the main feature of any app. Hence to keep it easy for user UI has been designed in such a way that it is easy to use.
- 4) 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) and FaceBook.

5.2 Safety Requirements

Sharing is the soul of this app. In case user doesn't want his contact details to go online he can also provide only his email id. It totally depends on the user whether he wants to provide his contact details or not. App admin has the authority to remove contacts, disable content and in a worst case

scenario work with law enforcement or legal bodies if there is a direct threat to any of the entities involved in the app.

5.3 Security Requirements

Security of user account and protection of personal information of user is primary motto. By signing up for the app user agrees to give his authentic personal information. Any personal information of the user will not be published without the consent of the user.

5.4 Software Quality Attributes

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

5.5 Business Rules

In case of any breach of privacy admins have the right to permanently remove or block a user and cease their usage of the app.
