

Dr. BR Ambedkar National Institute of Technology Jalandhar

SOFTWARE REQUIREMENTS SPECIFICATIONS DOCUMENT

**Software Engineering Laboratory**

Notesify

A Student’s Assistant in Learning

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# **Document Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Author** | **Dates** | **Status and Description** |
| 1.1 | Rubal | 08-09-2019 | Added Purpose and Scope Section |
| 1.2 | Rupinder | 08-09-2019 | Added Product Perspective and Functions Section |
| 1.3 | Rubal | 09-09-2019 | Added Document Conventions; Definitions, Acronyms and Abbreviations Section |
| 1.4 | Rupinder | 09-09-2019 | Added Operating Environments and User Documentation Sections |
| 1.5 | Rupinder | 10-09-2019 | Added General Constraints, Assumptions and Dependencies Section |
| 1.6 | Rubal | 10-10-2019 | Added Intended Users and References Section and Updated Product Perspective Section |
| 1.7 | Rupinder | 10-09-2019 | Updated Software Requirements Specifications Outline Section |
| 1.8 | Rubal | 10-10-2019 | Updated Product Functions |

# **The Software Requirements Specifications Outline**

## **Purpose and Scope**

‘Notesify’ is an *app* which aims to provide a common platform for current students, their seniors, alumni and teachers to interact with each other and share their knowledge. Its purpose is to provide free study material and guidance to students readily at their doorsteps.

The audience of a *doc.* can also testify its quality by rating it and commenting on it. It will not only testify the genuineness of a *doc.* but also promote it for others to read. Users can also elaborate or correct a *doc.* (if it is modifiable as chosen by the owner of the document). This way a reader can know which *docs.* are highly used and suggested by others.

It provides a way to collect *info.* about any emerging topics and *tech.* as conveyed by the volunteering mentors currently working in the industry who have joined our interface. Therefore, a student can remain updated about the evolving *tech.* standards in the industry.

The *app* will also provide a common forum where anyone can ask a *que.* and anyone can answer it.

This *app* is as much beneficial to a mentor as to the students because it provides the mentor an audience who rates, supports and promotes his/her study material. It will not only boost his/her confidence but also allows him/her to improve his/her knowledge as he/she tries to create higher quality *docs.* and answer others’ *que.*

Major Goals of the Project-

* Easy access to useful and relevant *info*.
* Availability of material within seconds as soon as the mentor uploads it.
* Readily resolve *que.* of a user.
* To provide correct *info.* the users on easy terms.
* Platform to provide an audience to mentor to promote his/her ideas.

## **Document Conventions**

|  |  |
| --- | --- |
| **Attributes** | **Description** |
| In Single Quotes | Name of the *App.* |
| Font Size 16 | First Heading |
| Font Size 13 | Second Heading |
| Font Size 12 | Third Heading |
| Font Size 11 and Italic | Fourth Heading |
| Italic | Abbreviations |
| Bold | Main Points |
| Superscript Number | Number of a *Ref.* |

## **Definitions, Acronyms, and Abbreviations**

### **Definitions**

* Student: The user for whose assistance this *app* was developed. It is a user who will only have access to read, copy and save *info*. He/she can’t upload any data, to upload data he has to change his status to mentor. He further has rights to rate, comment and give feedback. He could also start a chat with any mentor.
* Mentor: This is the most important user or we can say back-bone of our *app.* Without him/her, the functionalities of the *app* are at stake. As mentors only can provide the study material for students to access. Mentors has been given all rights as given to students. In addition to that he/she has the ability to upload any kind of material he/she wants to share.
* Volunteering Mentor: It is the mentor who is volunteering to resolve *que*. of the users. This mentor has his/her chat box functional through which he/she can interact with the students to answer their *que.* They will receive notifications whenever a student asks them a *que.* through their chat box.
* Feedback collector: These are the developers of the *app* to whom the feedback or *que.* will be reported. They have the right to read the *que.* and respond to them.
* Genuine *Info.*: It includes those *docs.* and links which contain *info.* that is verified by other users. Genuineness od a *doc.* can be judged by the rating and comments on the document. If a *doc.* is not found correct, it can be reported and the *admins* will take care of it.
* Genuine user: It means that if this user(mentor) provides any content about a topic then that content is supposed to be genuine. Genuineness of a mentor is judged by the average rating of all his/her uploaded contents.
* Developer/*admin*s: Persons who are the creators of this *app* and manage it.

### **Acronyms and Abbreviations**

|  |  |
| --- | --- |
| **Acronyms and Abbreviations** | **Description** |
| Admin | Administrator |
| App | Android Application |
| CR | Class Representative |
| Docs. | Documents |
| DB | Database |
| DBMS | Database Management System |
| ER | Entity-Relationship |
| FAQ | Frequently Asked Questions |
| FSR | Feasibility Study Report |
| GUI | Graphical User Interface |
| Info. | Information |
| JDK | Java Development Tool Kit |
| PDF | Portable Document Format |
| PPT | Power Point |
| Que. | Questions or Queries |
| Ref. | References |
| Reqms. | Requirements |
| SQL | Structured Query Language |
| SRS | Software Requirements Specifications Documents |
| Tech. | Technologies |
| XML | Extensible Mark-up Language |

## **Intended Audience and Reading Suggestions (Overview)**

The intended readers of the document would be

* Developers
* Project Managers
* Users
* Testers
* Documentation Writers

## **References**

1. <https://drive.google.com/drive/u/0/folders/0B-GCOGyxmJAtV3FXdmgxRXlnb3c>
2. Feasibility Study Report
3. <https://www.slideshare.net/harshavi57/srs-example-16099692>
4. <https://www.slideshare.net/KrishnasaiGudavalli/software-requirements-specification-17173967>

# **Overall Description**

## **Product Perspective**

‘Notesify’ is inspired by an existing documents-providing facility available to the students in our college. We are provided with a Google Drive Link**¹** created by the seniors of our department where they have uploaded some relevant books' pdfs and manuals. But this Google Drive Link**¹** lacks many facilities that we aim to provide through our project. Though it provides some important books and notes of each subject but it is not interactive. Through ‘Notesify’ users can rate and comment on any document and also ask *que.* from their mentors and seniors. In addition, ‘Notesify’ provides many other facilities to the students to make the students’ lives much easier.

**EXISTING SYSTEM**

* Google Drive Link**1** to provide curricular related notes, books *pdfs*, lab manuals etc.
* Available to all irrespective of any criteria.

**DRAWBACKS**

* Once created, not updated
* No facility to eliminate irrelevant information
* Other than developer, no other person can contribute to the application
* No online communication facility
* No feedback system

**PROPOSED SYSTEM**

* Android *app*
* Also Include topics other than curriculum
* Online chat box
* Rating and commenting Facility
* Search box for easier searching
* Online registration form

**OUR PLANS**

* To provide facility of online availability of material within seconds
* To provide mentors to students
* To provide facility of online communication with peers and mentors
* To provide the facility to promote one’s valuable *info.*
* To provide authenticated access to *docs*
* To provide genuine *info.* through rating (likes) and comments
* To provide platform to ask *que.* openly without any restriction
* Any number of users can access a *doc.* simultaneously
* To provide platform to help others

## **Product Functions**

* Provides an easy to use *GUI*.
* Allows users to login into their accounts.
* Allows the users to view already posted materials by other users classified according to departments and subjects for easier searching and access. Search Bar is also available to search about any *doc*. randomly. There are no eligibility criteria to read any *doc*.
* Allows a user to post study materials in the form of *pdfs, doc* files, *URLs, ppts*, etc, He/she can choose to make his/her *doc.* modifiable by others or not.
* Allows a user to search about other people working in the fields of his/her interest.
* Allows a user to ask *que.* in the forum or directly communicate with the required mentor if that he/she has permitted to volunteer for assisting to *que.* on a chat box.
* Allows a user who is the *CR* of a class to form a group of his/her classmates where he/she can post any poll *que.* to which his/her classmates can respond to take a decision.
* Allows a user to rate and comment on a *doc.*
* Allows a user to give feedback about the *app* which is helpful in the improvement of the *app.*
* Keeps the *info.* of a user secured.

## **Operating Environments**

‘Notesify’ is an android *app* so it will only run on android phones.

## **User Documentation**

‘Notesify’ is a very easy to use simple *app*. Users can use most of its features by simply clicking on different icons or buttons. If there are any commonly asked *que.* about the working of the *app* then we will provide their answers in the FAQs panel.

## **General Constraints, Assumptions and Dependencies**

#### Constraints

* Only those mentors will be asked to answer the *que.* of the students who have volunteered for it. Other mentors can just upload *docs.* and refrain from answering *que.* if they can’t due to their busy schedules.
* Volunteers can choose if they only want to answer the *que.* of the students of their alma mater or any student.
* Only the user who has uploaded a *doc.* can modify it. Others can only download it and not modify. However, if the user is open to suggestions, he/she can choose to make it modifiable.

#### Assumptions

* It is assumed that we will get enough number of volunteers to help the students.
* It is assumed that most people use android phones.
* It is assumed that the *docs.* uploaded by mentors are correct and helpful.
* It is assumed that students will have faith in the *docs.* uploaded by other mentors.
* It is assumed that the students will be willing to provide feedback about *docs.* read by them and about the *app’*s working.

#### Dependencies

* The functioning of our project is mostly dependant on the availability and competency of the mentors because if there are no mentors available to upload any *docs.* then we won’t have anything to show to the users. To lessen this dependency, we will take following measures if required.
* Get the docs. verified from other mentors before they are uploaded.
* If mentors are not available, then to encourage more mentors to volunteer, we will pay them for each *que.* they answer and the *docs.* they upload. These payments can then be realized from the students who want to access the paid *docs.* and get their *que.* answered from a certain mentor.

# **Specific Requirements**

## **External Interface Requirements**

### **User Interfaces**

### **Hardware Interfaces**

### **Software Interfaces**

### **Communication Interfaces**

## **Functional Requirements**

## **Non-Functional Requirements**

## **Design and Implementation Constraints**

## **Other Requirements**

# **To Be Determined List**