



National Institute of Technology Uttarakhand

Software Requirements Specification

For

Student Buddy App

Submitted by-

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1) Introduction: -

1.1) Purpose of this Document: -

The Purpose of our app is to increase student teacher interaction and student doubt solving and quizzing and to increase the contactiveness of students and to give them time limited testing environment to increase the speed of problem solving.

1.2) Scope: -

The main objective of this project is to conduct online test which will help them to become self-paced learners. Some of the aim of the project includes: -

- a) Help students to go beyond their normal curriculum and learn about various other aspects which are apart from academic education.
- b) To provide an examination system where, there is virtually no scope of errors and the results are much faster. And the system is more transparent.
- c) To provide an environment where students not only can learn but also analyze their performance simultaneously.
- d) To train the students to work within time limits with constraints.
- e) Doubt solving.

2) Existing system: -

Currently a student only gets the opportunity to ask doubts in class duration otherwise he has to use mail which might be not a good experience for both teacher and student. and the doubt might be lost in the list of pending mails and if the student wants to revisit and revise his doubt he has to waste his time finding that mail.

3) Functional Requirements: -

3.1) online learning and online tests: -

We will provide a dedicated platform for doubt solving and quizzing so that all confusions are resolved quickly with ease and students get a strong understanding of concepts. And teachers can use our platform for taking online tests.

3.2) A Good collection of all Doubts: -

We will store all the doubts of students and build a great collection of doubts and their solutions. Doubt Resolving is essential before mastering any concept and on our platform, students can get different perspectives of viewing a problem / Topics.

3.3) Use digital resources well: -

students get all good quality questions and quizzes in an organized way so they save their time and increase their performance.

3.4) Searching: -

Users will be able to search their doubt in our collection of questions and their solutions. And users can also search quizzes in the quizzing section.

4) Operational Scenarios: -

- a) User device should have at least 2 GB RAM and android version should be atleast 4.0.1(jelly Bean) which is supported on more than 98% devices.
- b) All the platform will be made on Java/Kotlin and we will use firebase as the database

5) Application Features: -

5.1 Student User: -

- a) This user can create a new account using email.

- b) This user can ask doubts to a faculty or batchmate or their senior and can solve others doubts.
- c) This user can search their doubts among all the previously asked doubts by them and commonly accessible doubts.
- d) This user Will be able to search quizzes and make quizzes

5.2) Faculty User: -

- a) Any Faculty can register on our Platform and get additional permissions to student details.
- b) This user can answer students queries.
- c) This user Will be able to make quizzes.

6) Non-Functional Requirements: -

6.1) Security: -

All the quizzing should be secure and the result of quiz and student information should be secure.

6.2) Maintainability: -

Backup database should be regularly c maintained.

6.3) Availability: -

It is available for Android users.