

Student Helper Portal

Software Requirements Specification

Vatsal Sakariya - 19BCE234

Harshil Sanghvi - 19BCE238

Aayush Shah - 19BCE245

Revision History

Date	Revision	Description	Author
	1.0	Initial Version	

Table of Contents

1. PURPOSE	15
1.1. SCOPE	15
1.2. OVERVIEW	15
2. OVERALL DESCRIPTION.....	16
2.1. PRODUCT PERSPECTIVE	16
2.2. PRODUCT FUNCTIONALITY/FEATURES.....	16
2.3. USER CHARACTERISTICS	16
2.4. CONSTRAINTS	16
2.5. ASSUMPTIONS AND DEPENDENCIES	17
3. SPECIFIC REQUIREMENTS	18
3.1. FUNCTIONAL REQUIREMENTS	18
3.2. EXTERNAL INTERFACE REQUIREMENTS	22
3.2.1. <i>Software Interfaces</i>	22
3.2.2. <i>Communication Interfaces</i>	22
3.3. DESIGN AND IMPLEMENTATION CONSTRAINTS	23
4. NON-FUNCTIONAL REQUIREMENTS	24
4.1. SECURITY AND PRIVACY REQUIREMENTS	24
4.1.1. <i>Authentication</i>	24
4.1.2. <i>Authorization</i>	24
4.1.3. <i>Privacy</i>	24
4.2. COMPUTER RESOURCE REQUIREMENTS	24
4.2.1. <i>Computer Hardware Requirements</i>	24
4.2.2. <i>Computer Software Requirements</i>	24

1. Purpose

The main objective of the document is to illustrate the requirements of the Student helper Portal. The document gives us detailed description of both functional and non-functional requirements of the system.

1.1. Scope

Scope of the proposed system is to provide a platform where

- University students can connect with other students
- Students can collaborate with other students' projects
- Upcoming events showcase
- Student Discussion Forum
- Lecture notes and academics related document sharing

1.2. Overview

Student Helper Portal would be able to provide all in one platform for university students. Students can share their academics related documents along with lecture notes with each other. Professors can share lecture recordings, Examination schedules and can arrange doubt clearing sessions.

There is an Event showcase section, in which all upcoming Tech-Fests, Hackathons and Competitions related information will be available so that events reachability will be more.

Students can connect with other students easily by collaborating in projects, forming coding groups, solving other students doubts, sharing their interview experiences and their preparation and roadmaps for placements. A Student Discussion Forum is a special section made for this purpose.

At last, Student feedback section is present for the students to request a new feature or improvement of the app.

2. Overall Description

2.1. Product Perspective

Our proposed portal will help students to connect with other students easily. Our portal will have features like student discussion form, more event accessibility and easy of registration, ease of books exchange and would help in notes sharing.

2.2. Product Functionality/Features

The system will have users such as:

- Students
- Administrator
- Faculties

Major functionality of system will include:

- User Authentication based on University
- User Profile
- Events showcase
- Student Discussion Forum
- Post reactions (upvote, downvote and comments)
- Lecture Notes and Recordings
- Project Collaboration which includes chats feature
- Doubt clearing sessions by faculties
- Coding groups
- Student Feedback section
- Academics and Tech Blogs
- Personalized recommendations of blogs, forums, events and profiles

2.3. User Characteristics

The users who will be using this system must have login ID and password. Also the users must have knowledge of the internet.

The student who will be using this system must have valid University mail ID and password.

There will be two different users who will be using this system:

- University Student
- Administrator
- Faculties

2.4. Constraints

The product will be supported by Android and iOS operating system.

- All Android versions android 5 and above.
- All iOS versions iOS 9.0 and above.

2.5. Assumptions and Dependencies

The proposed system needs an internet connection on the client side. It needs the following third party products on the server side:

- Firebase database