

SOFTWARE REQUIREMENTS SPECIFICATION

Student Internship Management System

Team Members: -

Nischal Gudehindler Lingeswara (2825960)

Savan Yeshwanth Rao (2784780)

Vadde Krishnasai (2805416)

Gangula Harshini (2845690)

1.0 Introduction

This section provides an overview of the entire requirement document. This document describes all data, functional and behavioral requirements for Student Internship Management System. The student Internship management system is an Android app that is an online internship management application in which a student can be able to apply for an internship by submitting his application form online through the application portal to the concerned roles. On the other end the admin could be able to go through the application form that is submitted by the student, review the details of the student. The admin can examine both the overall number of students and the number of students who applied for internships in the meanwhile.

The development of the software application will result in the paperless, real-time streamlining of the application process, which might help the company save time. Many students will find it helpful to apply for an internship using this straightforward software since it will be the only place, they can seek rather than going via several job portals and applications and monitoring them, which will be quite challenging. Many students also are unaware of the application procedure for internships, which causes them to lose out on many opportunities. Our application will serve as a central location for students from various universities to apply for internship opportunities in any department of required organization.

1.1 Goals and objectives

The impact of using computer applications to the teaching and learning processes is becoming important issues and this project attempts to provide a solution to these problems. Thus, we aim to develop a prototype of an online internship management system that works by allowing the university to deploy a web portal, to collect applicant's data, review that data, make a decision, and then continue to interact with applicants and reviewers. The goal of the system is to enable online interaction with applicants and their supervisors and automate the entire process; thereby eliminating a huge amount of paperwork and manual tasks.

1.2 Statement of scope

The scope of the system is to provide a friendly Android Application which is easy to navigate and at the same time provides sufficient depth and information about the system and how it works.

The scopes of the project are:

- Android application
- Users:
 - Students
 - Faculty Supervisors
 - System Administrators

1.3 Software context

The software is placed in a business or product line context. Strategic issues relevant to context are discussed. The intent is for the reader to understand the 'big picture'.

1.4 Major constraints

Any business or product line constraints that will impact the manner in which the software is to be specified, designed, implemented or tested are noted here.

2.0 Usage scenario

This section provides a usage scenario for the software. It organized information collected during requirements elicitation into use-cases.

2.1 User profiles

1. **Student**
Students will be able to Register, Login, search through available internship programs and apply for internship. Once applied they will be able to view their application status.
2. **Faculty**
Faculties will be able to view student's applications, review them and accept or reject them. After accepting the application, they will be able to set the progress of the internship which will be reflected in student's application section.
3. **System Administrators**
Administrator will be able to add various internship posts which students will be able to apply for.

2.2 Use-cases

1. Student Panel:

➤ Login/Registration:

❖ **Registration: -**

- First name – to enter the first name of the student user
- Last Name – to enter last name of the student user
- Mobile number – phone number of the student for contacting or changing the password
- Email – to notify the progress
- Password
- Confirm password.

❖ **Login: -**

- Email.
- Password.
- Forget Password- User can change the password by sending OTP to the email ID.

- On the home screen, the user would be able to see the list of the company that provides the internship.
- Users would be able to search for the internship using Search Bar.
- Users would be able to filter the list of companies by filters such as: -

- Mechanical Engineering
- Civil Engineering
- Computer and Science Engineering
- Electrical engineering.
- Other filters: -
 - On Campus
 - Off Campus
 - Full time
 - Part Time.

- Following internship Details will be there:

- Title of the Internship
- Type of internship: -
 - On Campus
 - Off Campus
 - Full time
 - Part Time
- Name of company
- Company address
- Internship Brief Detail.

- Users would be able to see details of internships and apply for particular companies by submitting an application: -

- Following application detail will be there that the students must fill
 - First name
 - Last Name

- Email Id
- Phone Number
- Education Stream Such as
 - Mechanical Engineering
 - Civil Engineering
 - Computer and Science Engineering
 - Electrical engineering
- Percentage
- Resume.

- Users would be able to see the list of companies where he has already applied.
- Users also would be able to check the status of their application and whether it is approved by the faculty OR not.

2. Faculty (Admin) Panel:

❖ Login: -

- Email
- Password
- Forget Password -User can change the password by sending OTP to the email ID.

- On the home, screen Faculty would be able to see the list of Students who applied for a particular company.
- Faculty will check the student list by applying the following filters
 - Mechanical Engineering
 - Civil Engineering
 - Computer and Science Engineering
 - Electrical engineering
 - Etc.
 - Other filters
 - On Campus
 - Off Campus
 - Full time
 - Part Time.
- The faculty will check the student's application detail and based on that, the application will be approved by the faculty.
- Once the faculty approve OR reject a student's application the status of the application at the student end will be changed accordingly.
- Faculty would be able to add the following things
 - Filter Category
 - Company Name
 - Company Location
 - Internship Title
 - Internship Brief Information.

➤ All above things directly will be shown to the student's home screen.

3.0 Data Model and Description

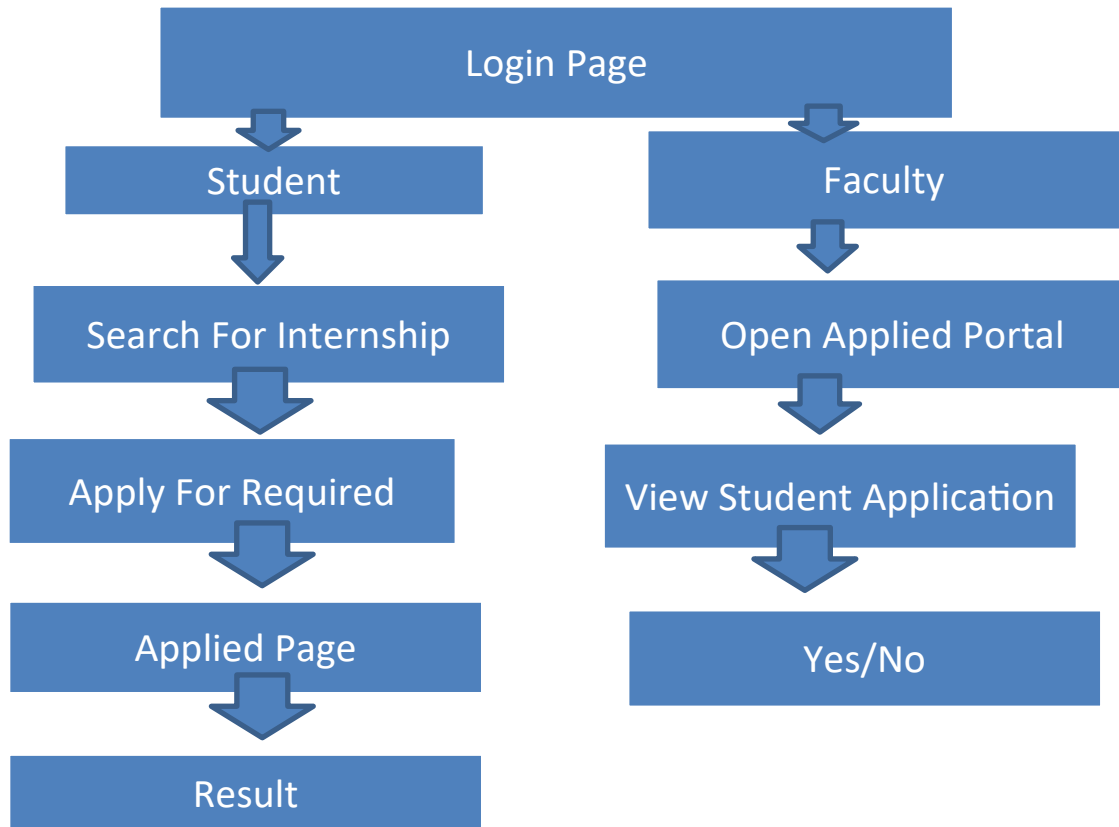
This section describes information domain for the software. This will require designing database so which we haven't started yet so I will provide this once we confirm and I start working on it.

3.1 Data Description:

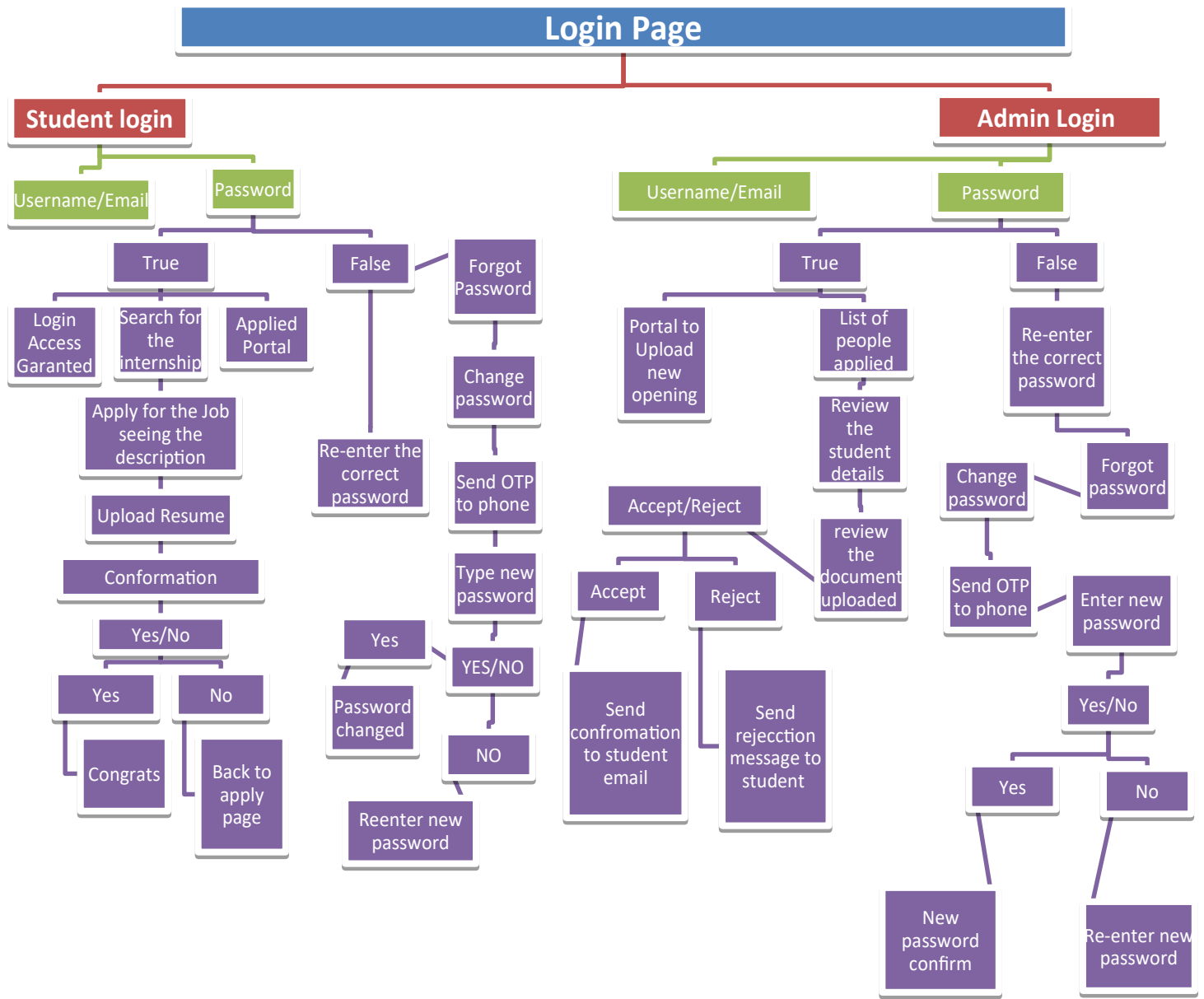
For now, we have two options for the database depending on the design that we are still planning on which is most flexible and feasible to use.

1. SQLite Database: which is an offline database, in which we can store the records in forms of tables and can be accessed depending upon the user requirements once we add all the required field such as first name, last name, email, phone etc.
2. Firebase Database: It is a real-time database which makes use of cloud-based NoSQL database, which will allow us to add all the information and store them and sync the database in real-time, unlike using the SQLite database.

3.1.2 Relationships: -



4.0 Functional Model and Description



4.1 Description of Major Functions

Each requirement is uniquely identified and works uniquely.

4.1.1 Requirement 1

1. **IDE:** Android Studio 2021.3.1
2. **Database:** Fire-store Database or SQLite
3. **Operating System for Development:** Windows 11.
4. **Operating System for Testing:** Android 9, 10, 11, 12

4.2 Software Interface Description

The software interface to the outside world are described below in each different section.

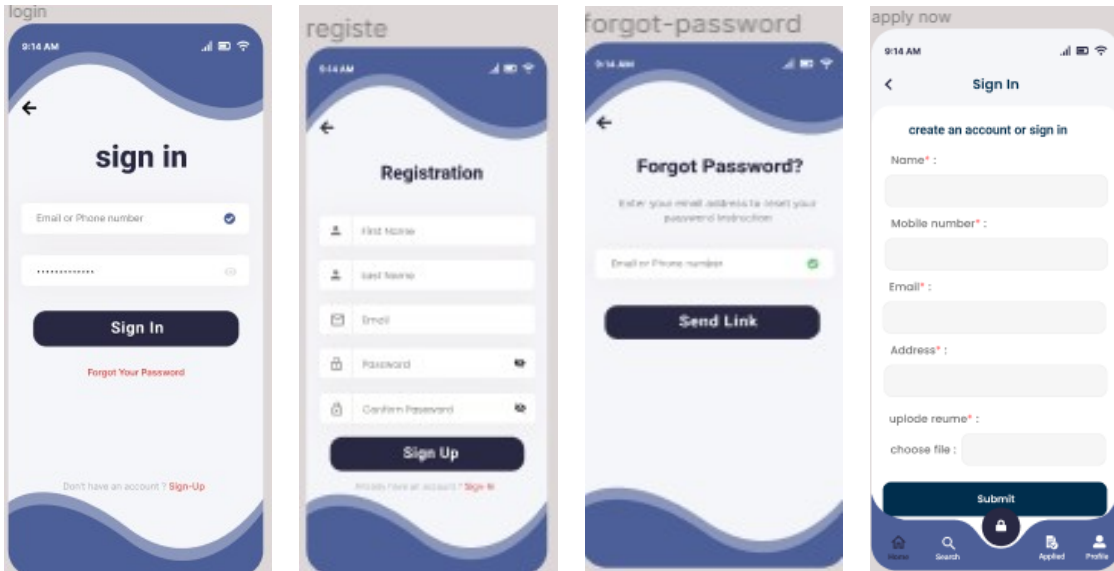
4.2.1 External machine interfaces

We will be using Android Phones i.e., 9,10,11,12.

4.2.2 External system interfaces

The Student Internship Management System web server must provide a user interface that will be accessible through any internet browser, the major ones being Google Chrome and Internet Explorer 12.

4.2.3 Human interface:



5.0 Restrictions & Limitations: -

Restrictions: -

- It is only for University Use only.

Limitations: -

- Only near by Companies can be located in the app.