

**Software Requirement Specification**  
**For**  
**“Student-Staff Information System”**  
**COMPUTER ENGINEERING**

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**CERTIFICATE**

This is to certify that the Seminar Work Entitled

**“Student-Staff Information System”**

Computer Engineering of SPPU, Pune

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**Project Guide:**

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#### **1. Problem Statement:**

Development of an application in android studio for storing and retrieving data of students and staff and displaying data using database.

## 2. Introduction

Student-staff information system has become important factors in modern education field. This system should help the institutional to streamline the administrative task and provide real-time access to the data. Building this system in web based interface will further help the ease of accessibility through any web browser. The study findings enable the definition of the project problem statement, its objectives, scopes and advantages of the student-staff information system.

### 2.1 Purpose

- The purpose this documents is to present a detailed description of the Student-Staff Information System.
- It will explain the purpose and features of the software, the interfaces of the software, what the software will do, the constraints under which it must operates and how the software will react to external stimuli.
- This document is intended for both the end users and the developers of the software.
- The purpose of developing student and staff information system is to computerized the tradition way of maintaining manual information.

### 2.2 Scope

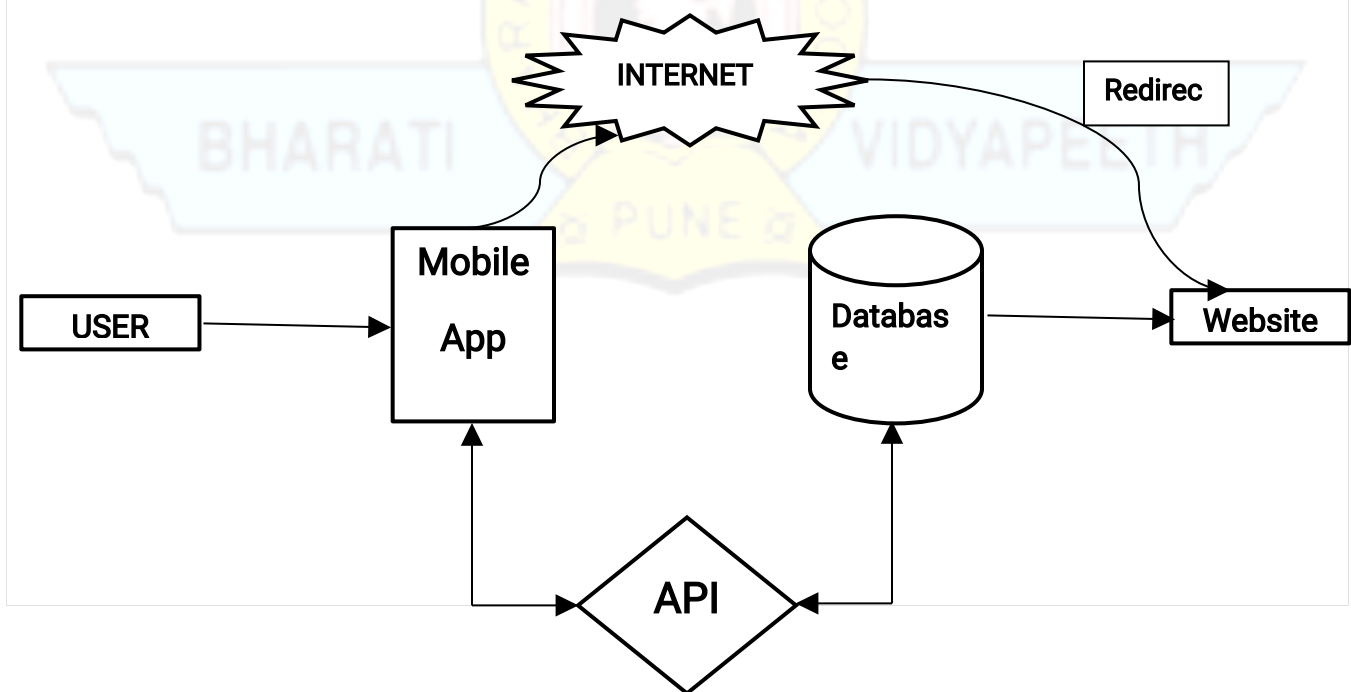
- This project is basically updating the manual information into a web based application.
- Manage students and staffs' information efficiently.
- Record details like name, phone no., email id, department.
- Trace the students and staffs' information or record through this software features.

- Manage your own security by providing authorized username and passwords.

### 3. Motivation

The act of collecting and storing the details of staff and students is a tedious job. As a result the Professors have to see to it that the data entry is done by every student and that to with valid details. To make it easy for the professors we developed an application named “STUCHER” which facilitates easy data filling and retrieval. The application itself checks for valid and unique entries. This ultimately reduces the manual work of keeping records. Moreover being a database based application it facilitates security of data on the database.

### 4. System Architecture



**User:** User (i.e. Principal, staff and students) will first open the app and register their details. Principal after login can access the saved records of all the staff and students of the college. Staff can only access records of students.

**Mobile App:** After entering in the app the user needs to select register or login

option. The login button will only be access by principal and teaching staff to visit further the saved records.

**API:** API stands for **A**pplication **P**rogramming **I**nterface which is used to establish a communication between two applications.

**Database:** It stores the data entered by all the staff and students. It also allows easy retrieval of data.

**Website:** The data that is registered is going to be saved on Google and can be retrieved from there only.

**Internet:** Being a cloud it facilitates data security and also can be accessed from any host machine.

## 5. Requirements

### 5.1 Software Requirements

- Android Studio 3.5.1
- Windows operating system
- SDK(Software development kit)
- JDK(Java development kit)
- Android phone with Ice-cream sandwich OS or above version.

### 5.2 Hardware Requirements

- Computer
- 4GB RAM
- 500GB HDD
- Android phone

### 5.3 Functional Requirements

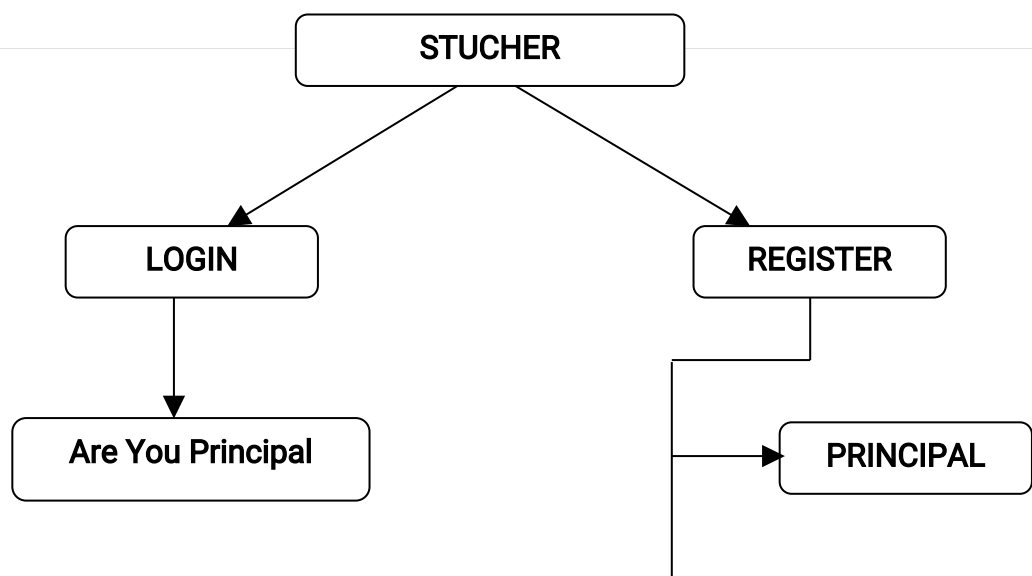
- App shall be capable of interfacing with the user (i.e. must not stop in the middle).
- User data should be fed into the system.
- Sign up for new staff and student.
- Provides login facility for existing user (i.e. principal and teaching-staff).

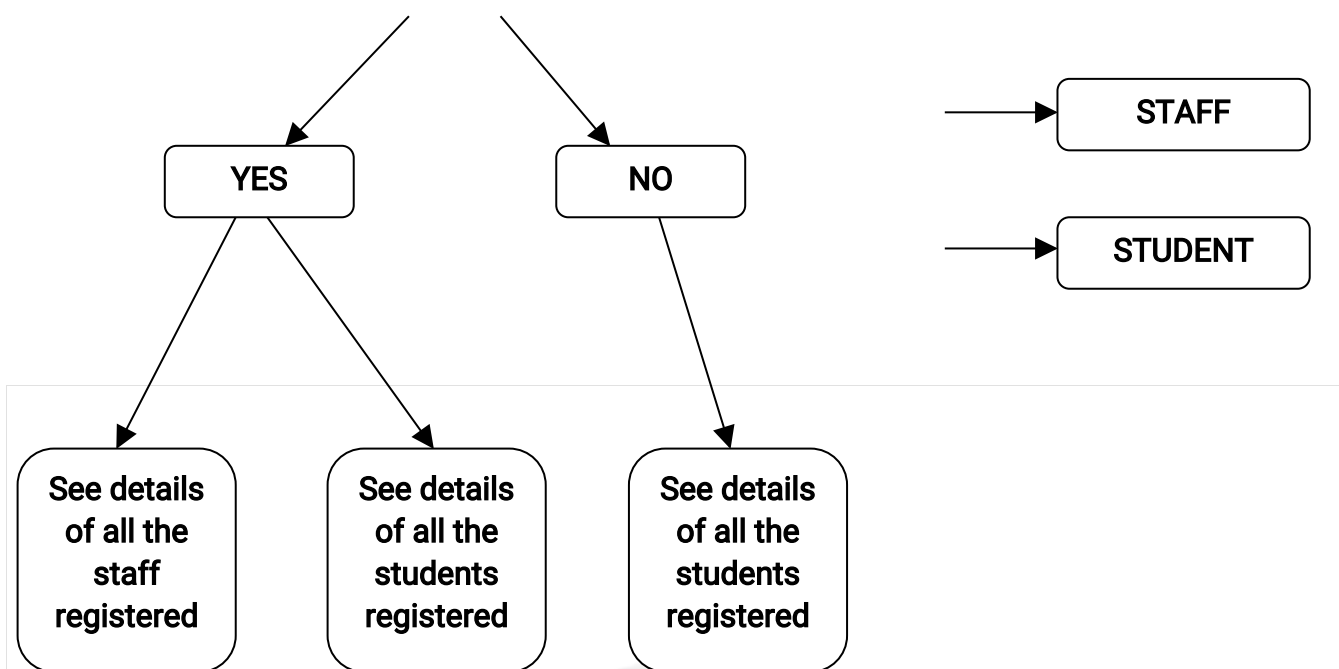
## 5.4 Non-functional Requirements

- Easy tracking of records and updating can be done.
- The number of users may vary, as this software finds applications in almost all department of the organization.
- The software will be available only to authorized users of the colleges like principal to view all the records of staff and students and teachers to access the students' records through their respective login.
- The Software is a web-based application and is built in PHP and MYSQL so it is platform independent and is independent of operating system.

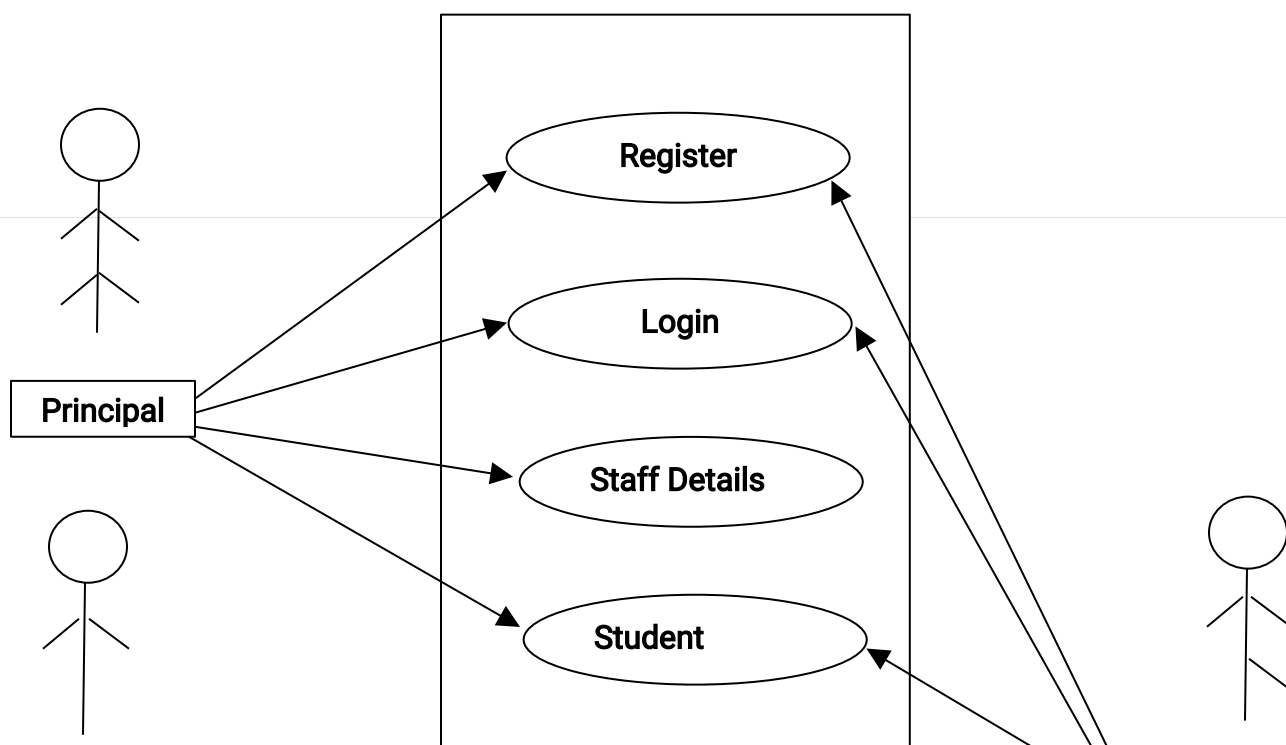
## 5. UML Diagram

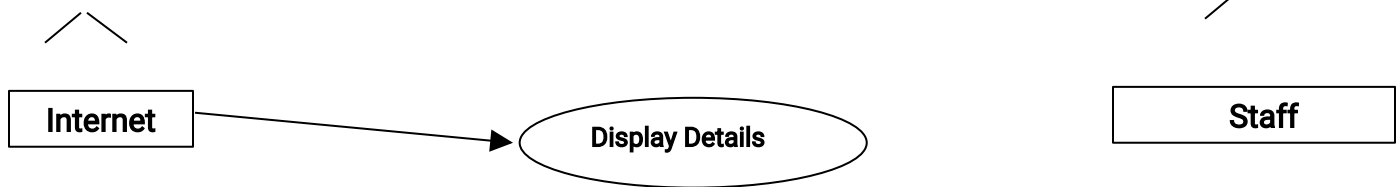
### 6.1 Activity Diagram





## 6.2 Use Case Diagram





## 7. Advantages and Disadvantages

### 7.1 Advantages

- Easy to use.
- With the help of software, data can be automatically collected and stored. Those data can later be used for retrieving any information of a particular staff or students.
- Possible to update and maintain information records.

### 7.2 Disadvantages

- There is a chance of malpractices here.
- Difficult to maintain and repair.

## 8. Application

- This application can be used by any organization who is interested to



have safe records of all its employees.

- When you want have a soft copy of all the records.

## 9. Conclusions

Hence we can conclude that the design phase of the Student-Staff information System give us the information of all the processes used in the project and their relation.

