

CONNECTING PSIT

A Synopsis Submitted

In Partial Fulfillment of the Requirements

For the Degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE & ENGINEERING

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PROBLEM STATEMENT

The students of PSIT are often found facing the following problems:-

- **Problems related to support from aluminis:-**

1. Internship support
2. Placement support
3. Help from aluminis in unknown places.
4. Support related to project.

- **Problems related to academic notes:-**

1. Lack of arranged notes.
2. Unavailability of previous year's CT & PU Examination question papers.
3. Notes are scattered at different places.

- **Problems related to medical help:-**

Students face problem in finding emergency numbers of concerned persons at one place. They have to login to the college portal which is a cumbersome process.

- **Unawareness of students about the success stories of their seniors:-**

Many a times it is seen that the students are unaware of what their seniors have achieved. Or if they need help from them then there is no platform to connect with seniors

- **Problem in expressing one's opinions:-**

Students face difficulty in expressing one's views related to some amendments to be made in college.

- **Problems related to choice of books related to a subject:-**

Students are unaware of the correct choice of books related to any subject or preparation for any competitive exams like GATE, CAT, GRE, etc.

- **Exchange of second hand goods:-**

There is no platform that allows exchange of second hand goods among the students.

- **Donation (Charity):**

- **Ongoing activities notification:**

Students have to login to their portal for getting notified about recent updates / activities going on in college

- **Lack of awareness of parents about their ward's performance in college:-**

Parents remain unaware about ongoing events in the college and also their ward's performance in the college.

INTRODUCTION

We are developing a social networking android application to connect PSIT i.e. College faculty, students, administration all under one platform. Nowadays everyone is using smartphones which are android based. So our app includes all the features which are supported on android platform. It is highly scalable. We have developed a custom app which is interactive and students will use the app. It is really easy to handle.

MOTIVATION

There is no successful app till now for the college which is used by students, faculty, administration, parents all under one platform. Students face various problems on daily basis in the college. So this app aims at solving all those problems.

OBJECTIVE AND SCOPE OF THE PROJECT

The main objective of our project is to develop a light weight android app which can solve the problem and achieve the objectives:

- Getting support from PSIT aluminis
- To provide quality notes to students
- Provide emergency medical help
- Freedom to express one's views
- Right choice of books / study material
- Exchanging of second hand goods
- Donation (Charity)
- To keep the parents aware about college events

The scope of the project is that it can be used by students, faculty members, parents, administration and even outsiders.

Thus the app can be used anywhere and at any time (24x7)

METHODOLOGY

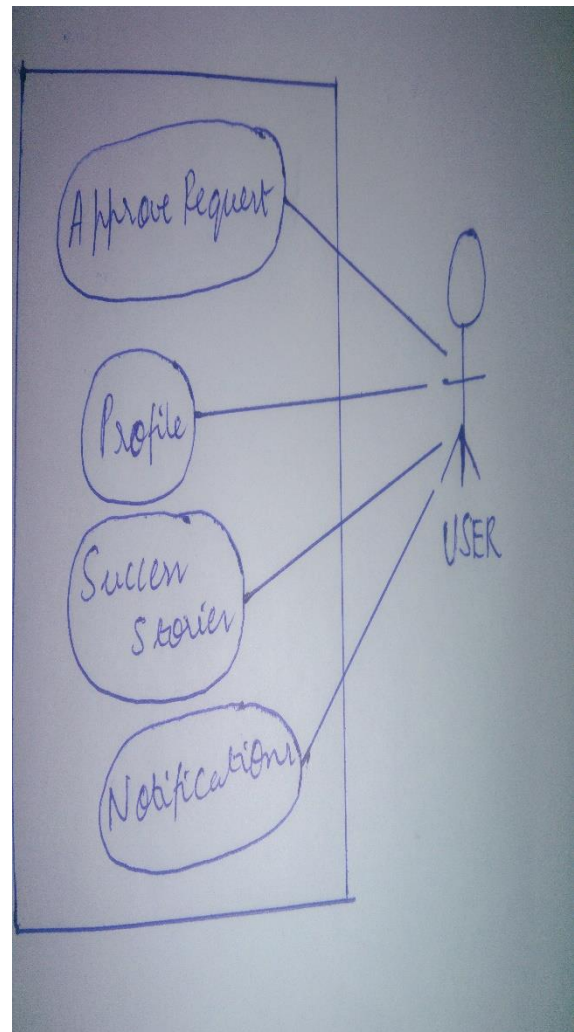
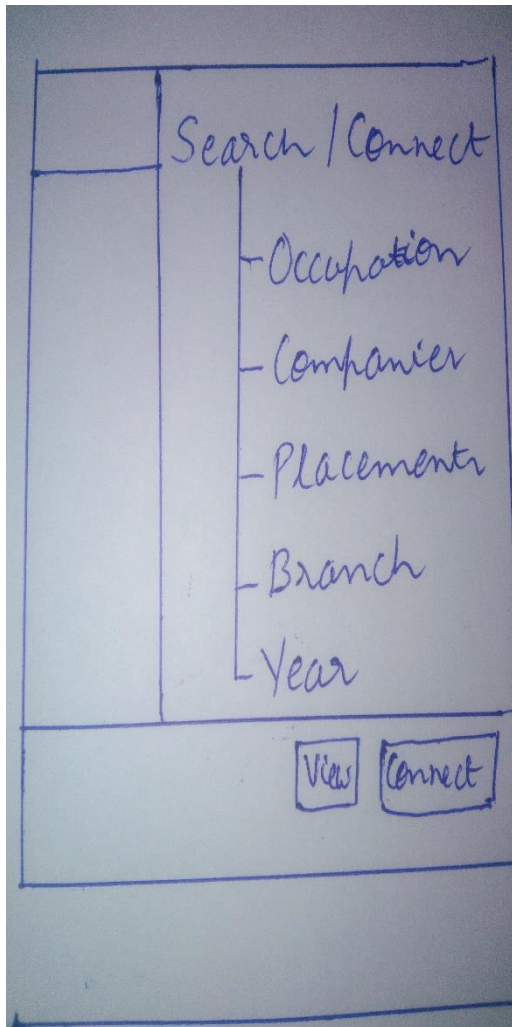
i) Conceptualization:

a) J2EE

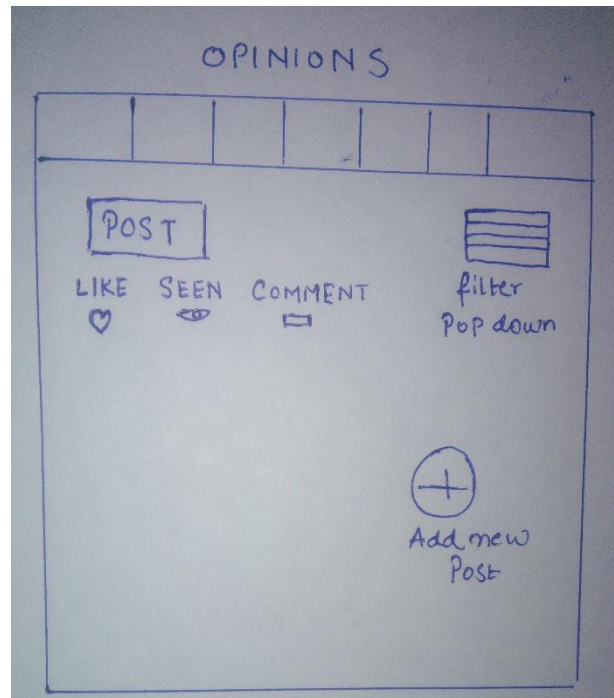
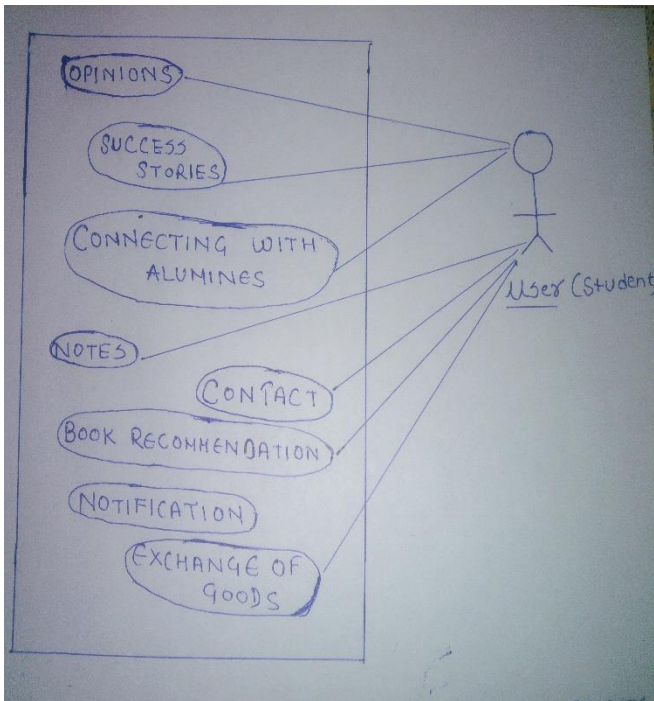
b) Server to manage Central Repository- by which everyone using the app can communicate

The app will contain different profile for different roles. Each profile will have its own panel which will contain different different features restricted to that profile.

Alumini Profile: Aluminis can be searched according to their jobs and location in different cities across the country.



Student Profile: Student will have unique id. He can track aluminis, upload notes, sell second hand goods, share opinions, avail for medical help and can use the benefit of book recommendation.



Parent Profile: It will be associated with the student. The parent profile will be uniquely identified by the unique id of the student. They would also be notified with updates in the college through the use of attractive features provided in the app.

Faculty Profile: The faculty can notify any important information like submission of practical files, announcement of assignment dates, notification regarding upload of marks on the portal etc. through his /her profile. He / She can reveal his / her presence in the cubical

ii)Implementation:

Central Server: Apache Tomcat to which app will communicate.

Two types of Database:

- a) Firebase(for authentication)
- b) MySQL(for data storage)

Back end code will be Java and Python. We will follow MVC (Model View Controller) architecture.

iii)Experimentation: We are developing our app in different versions :

a)Version 1: We will create a module for login and authentication . We will share the apk publically and get the feedback.

b) Version 2: Based on the feedback obtained from version 1 ,we will remove the shortcomings and add extra features .which will be our evolutionary model

H/W, S/W REQUIREMENTS

Hardware-

- 2GHz x86 Processor.
- 1 GB of system memory (RAM).
- 15GB of hard-drive space.
- Monitor to display output.
- Keyboard /Mouse for data input.
- Android phone
- Laptop

Software-

- Android Studio
- Apache Tomcat Web Server
- Java SDK
- Python SDK
- Android SDK

- Database: Firebase, My SQL

SCHEDULE OF ACTIVITIES

First we will build a module for login .there will be 2 modes for login:

- a) Login with Facebook
- b) Login with Google

Next step will be to develop modules one by one for the problems mentioned above.

REFERENCES

Aaltonen,S,,Kakderi,C,,Hausmann,V and Heinze,A.(2013). [Social media in Europe: Lessons from an online survey](#). *In proceedings of the 18th UKAIS Annual Conference: Social Information Systems*. (pp. Available online). USIR. , and 2013, , in: , 19-20 March 2013, Worcester College, Oxford, UK.

Adamic, Lada, Buyukkokten,Orkut, and Eytan Adar. (2003). [A social network caught in the Web](#). *First Monday*, 8 (6)