INTERNAL HACKATHON @ IET DAVV INDORE

Ministry/ Organization name : Govt. of Goa
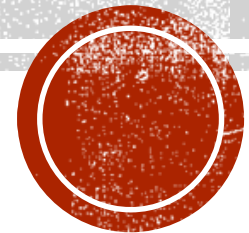**Problem Statement Number/ID :** DR111
Domain Bucket : Software – Web App Development
Team Name : KEYCODERS 2.0
Team Leader Name : Sumit Kr Singh

PS and Team Details

SMART INDIA HACKATHON 2020

PROBLEM STATEMENT DESCRIPTION

The Directorate of Higher Education has 7 Government Colleges and 26 aided colleges under it. Altogether, more than 10000 students that pass out from them every year either choose to opt for further studies, work or have their own startups. Currently, there is no mechanism for the colleges and the Directorate to keep a track of the students passing out. Hence, the problem is to develop a web based application for colleges and the Directorate to keep a track of the Alumni. The said application should have the following features:-

(a)Allow the Alumni members to register themselves

(b)Allow colleges to verify and authenticate their registered alumni

(c)Provision for alumni members to update their details

(d)Allow the colleges to search details based on criteria such as year, subject, etc.

(e) Allow the Directorate to search details based on criteria such as colleges, year, subject, etc.

(f)Send messages and emails to alumni members

(g)Group chats, create events, publish notices on the portal

(h)Security features with login for every user.

IDEA / APPROACH DETAILS

A <u>social network platform</u> dedicated to alumni of the colleges under The Directorate of Higher Education, Government of Goa.

✓ Our web-app will have <u>3-level hierarchy</u> i.e. **(i)Directorate, (ii)College admins and (iii)Alumni**.

✓ **Directorate** will have authority to **control admins** and <u>search details</u> based on different factors.

✓ Each college **Admin** will have the responsibility of verifying all the newly registered alumni of their respective colleges. He can also <u>post events</u> and <u>publish notices</u> along with <u>sending mails and messages</u> to alumni in network.

✓ Each **<u>alumni</u>** <u>will register</u> themselves to portal. They can also <u>edit their profile</u>, <u>see events and notices</u> and <u>connect with people</u> on their network through facilities provided such as group chats.

A web-based app which will use the extensible database to keep track of the alumni, their current positions and providing an interactive user-experience with all the required functionalities :

▪ 3-Tier Application => Directorate, College Admins, Alumni.

▪ 1st => Alumni registration.

▪ 2nd => Verification(of Alumni) Portal for each college admin.

▪ 3rd => Colleges and Directorate can search details based on criteria such as year, subject, etc.

▪ 4th Build on MVC Architecture.

▪ 5th **Scalability** of adding new colleges and admins by **Directorate Admin.**

TECHNOLOGY SELECTION

Front End

- HTML
- CSS, Bootstrap(Framework)
- JavaScript, JQuery

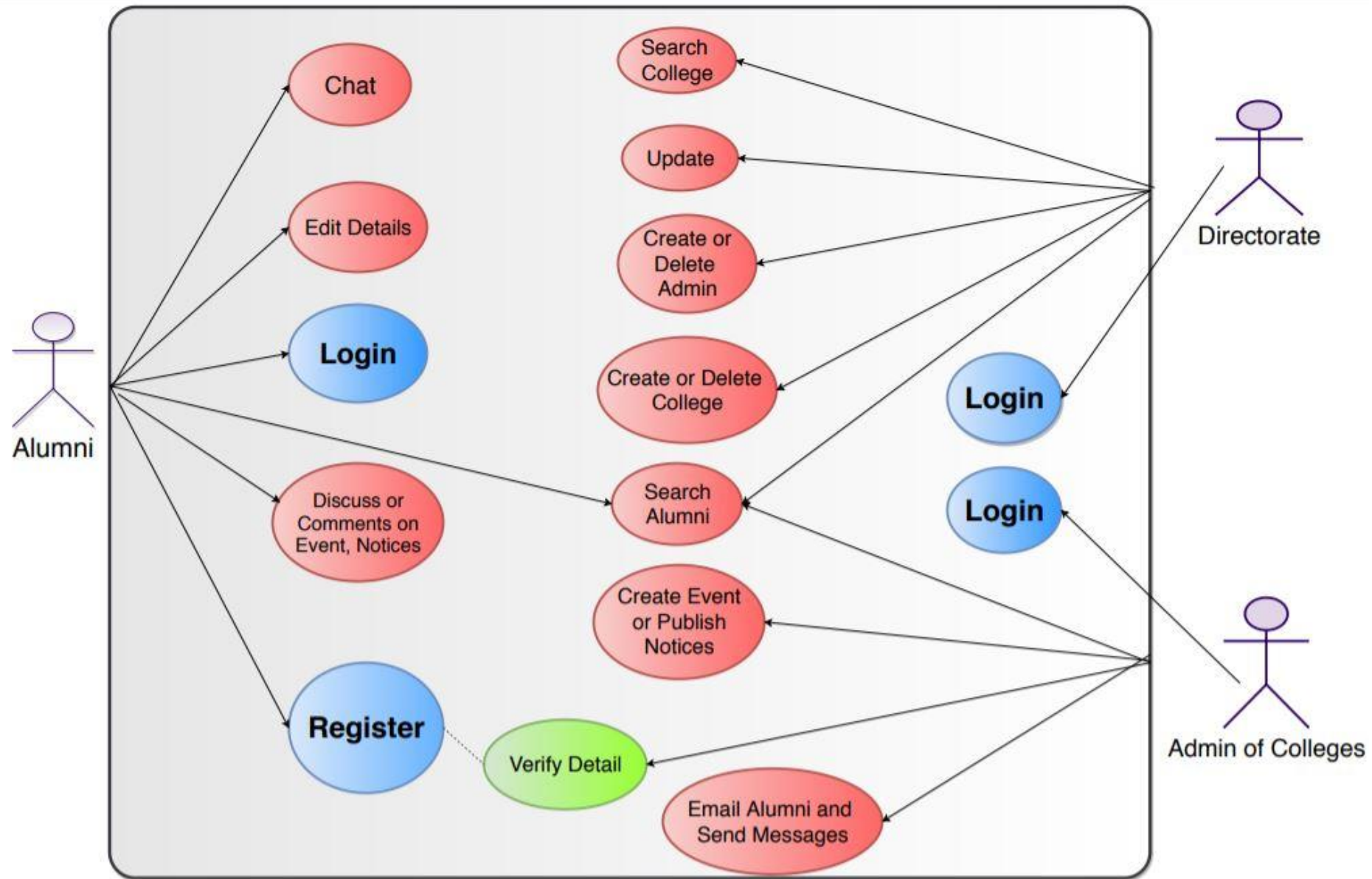## Back End

- PHP
- CodeIgniter(Framework)
- AJAX(Technology)

Database

- MySQL

PRELIMINARY ANALYSIS AND DESIGN (USE-CASES)

PRELIMINARY ANALYSIS AND DESIGN (DEPENDENCIES)

- **External APIs** of ***LinkedIn, Google*** and ***Facebook*** for Sign In.

- **Student Data** of ***College Alumni***(passed out students).

- Messaging API/Server

- **Email Server**

- **Web Hosting**