

## Idea/Approach Details

**Ministry/ Organization name:** Govt. of Goa

Team Name : GEN-Z

Team Leader Name : Sachin Motwani

**Problem Statement :** Alumni Tracking System

Problem ID : DR111

College Code : 1-3515960128

# Idea / Approach details

## Functions

- Alumni Tracking System is a web-based application that intends to enhance the tracking of college graduates.
- It obtains **real time information of institutes' alumni** and making it easily accessible to the colleges and the Directorate.
- The authorities can contact the alumni by **searching their profiles** based on parameters such as name, year of graduation, subject, department, organization etc.
- It will facilitate the alumni to **update** their working experience and prompt them to add their personal details.
- The college admin can **add an event** for which a notification will be sent to the intended alumni.

## **Registration**

- Alumni can register on web app by providing details like Name, Username, Password, College name, Email-id, Contact Number.
- For every successful sign up, corresponding college admin will verify the details.
- After successful verification user will receive email to complete his/her profile and will be added as alumni in the network.

## **Events**

- College, Directorate admin can add events in the Events tab. Notification for the events will be sent to the selected alumni based on parameters like year of graduation, department etc.

## **Chatting**

- A member can see other members who are online. They have an option to go public, which broadcast the message to all online members in the chat.
- Sockets should be enable for communication in real time.
- For private messages, the sender should first send the request to the other member.

## **Additional Features**

### **Invite**

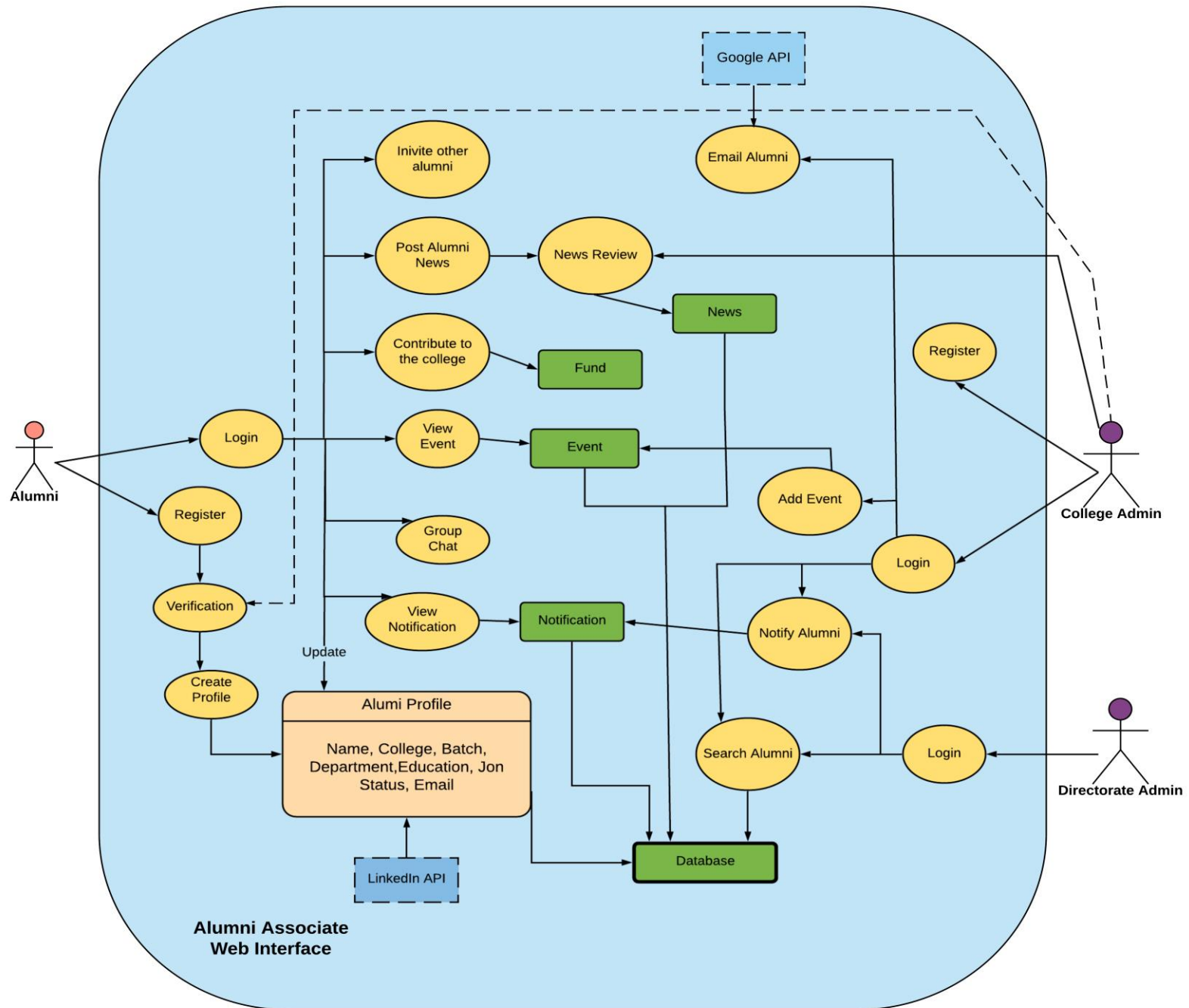
- A successfully registered alumnus can manually send invitation to his/her batchmates to register on this application via WhatsApp, Facebook, Email, Messages.

### **Payment**

- This feature will provide a secure tunnel that will connect alumni's bank account to the college's bank account. Through this feature alumni can contribute to college.
- Stripe API is used to serve as a gateway.

### **Alumni news**

- Alumni will send a request to post something to college admin.
- After checking the content of the post, he will allow it. This will reduce spams in the groups.



## Architecture of Application

- This application will be based on **MVC architecture**, the user will interact with View.
- View will communicate with Controller which will redirect the received request to Handler function where actual business logic is implemented and handler function will in turn perform the required operation for the request.

## APIs

- This application will interact with LinkedIn API to fetch alumni's educational and working experience.
- This application will use Gmail API to communicate with alumni via e-mail.

## Technology Stack



# Use Cases

- This application intends to **keep records** of college graduates.
- These records are an important asset to the college socially, academically and professionally.
- This application will facilitate college in **managing alumni connections**.
- The authorities can **contact** the alumni whenever it is needed, through this application.
- This application will help in **conducting college events with alumni**.
- This application also allows communication between graduates themselves through group chats.
- Alumnus can send **invitation** to his/her batchmates to join this application.
- **Alumni News** will give an overview of happenings in the alumni network.
- **Payment gateway** will serve as a channel for collection of funds for reunion, improving college infrastructure etc.

## Dependencies/Show stopper

- Web servers are required to deploy the application.
- Verification of alumnus will be done manually.
- Chrome web browser version 4.0+, Internet Explorer version 9.0+, Firefox version 3.5+.