

## Software Requirement Specification for Alumni Network Platform

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| <b>PROJECT ID</b>        | 06                      |
| <b>PROBLEM STATEMENT</b> | ALUMNI NETWORK PLATFORM |

### Tech Stack:

- **Frontend:** HTML, CSS, JS
- **Backend:** Python, Django
- **Database:** MySQL, PostgreSQL
- **Authentication:** Firebase Google Authentication, Google OAuth

### Project Flow:

#### Purpose:

The purpose of the alumni network platform is to create a centralized hub for alumni to connect, engage, and collaborate effectively. By developing this platform, we aim to address existing challenges in alumni communication and networking, such as fragmented connections and lack of a centralized platform. The platform will streamline communication, facilitate mentorship opportunities, and provide a space for alumni to share job opportunities, ultimately fostering a vibrant and engaged alumni community.

**Scope:**

The scope of this project includes the development of a comprehensive alumni network platform that encompasses key features and functionalities to meet the needs of alumni, current students, and other stakeholders. This includes user authentication, alumni directories, events calendars, news updates, mentorship capabilities, and job sharing functionalities. The platform will be developed using the Python (MySQL, Python, Django, HTML, CSS, JS) stack AI to ensure scalability and compatibility with modern web browsers.

**Dependencies:**

- Integration with Firebase Authentication for user authentication: The alumni network platform must integrate with Firebase Authentication to provide secure and streamlined user authentication. This integration allows users to log in to the platform using their Google accounts, ensuring a seamless and familiar authentication process.
- Consistent performance and availability of the existing email server: The platform relies on the consistent performance and availability of the existing email server to facilitate communication and notification delivery. This dependency ensures that users receive important updates, notifications, and alerts in a timely manner, enhancing their engagement and interaction with the platform.

**Use Cases:****Networking Opportunities:**

- Alumni can use the platform to connect with fellow graduates based on shared interests, industries, or geographic locations.
- Users can search for alumni working in specific companies, industries, or roles to expand their professional network and seek career advice.

**Mentorship Programs:**

- Alumni can volunteer as mentors to provide guidance, advice, and support to current students or recent graduates.
- Students can search for mentors with relevant experience and expertise to receive mentorship and career guidance tailored to their interests and goals.

**Event Coordination:**

- The platform can be used to organize alumni events, reunions, networking mixers, and professional development workshops.
- Alumni can RSVP for events, view event details, and connect with other attendees before, during, and after the event.

**Job Opportunities:**

- Alumni can share job postings, internships, and career-related resources within the platform to help fellow graduates find employment opportunities.
- Current students and recent graduates can explore job postings tailored to their interests and qualifications and apply for positions directly through the platform.

**Professional Development:**

- The platform can serve as a hub for sharing industry news, career insights, and educational resources relevant to alumni.
- Alumni can participate in online discussions, webinars, and virtual panels to stay updated on industry trends and enhance their professional skills.

**Alumni Engagement:**

- The platform can send out regular newsletters, updates, and announcements to keep alumni informed about upcoming events, news, and opportunities.
- Alumni can contribute their own news, achievements, and updates to share with the broader alumni community.

**Consideration:**

- All users should possess active Google accounts for authentication.
- Users should have regular access to internet-enabled devices.

**Workflow:****Functional Requirements****Sign In:**

- Only registered users, including alumni, current students, and authorized people(admins), can sign in to the platform.
- User authentication is required to access personalized features and functionalities based on user roles and permissions.

**Dashboard:**

- Upon logging into the alumni network platform, users are directed to the dashboard.
- The dashboard serves as the main interface for accessing key features and information, providing a centralized view of alumni network activities.
- Essential information displayed on the dashboard includes upcoming events, news updates, recent job postings, and mentorship opportunities.

### **Alumni Directories:**

- Alumni can create and manage their profiles within the alumni directory section.
- Profile creation includes providing personal details such as name, graduation year, degree obtained, major or field of study, contact information, professional background, skills, and interests.
- Alumni directories allow users to search and filter alumni profiles based on various criteria such as graduation year, location, industry, and areas of expertise.

### **Events Calendars:**

- The platform features an events calendar where users can explore upcoming alumni events, reunions, networking mixers, professional development workshops, and other activities.
- Users can view event details, including date, time, location, agenda, and RSVP options.
- Alumni can RSVP for events they plan to attend, facilitating event planning and coordination.

### **News Updates:**

- A news feed or blog section provides users with timely updates and articles relevant to the alumni community.
- News updates cover topics such as institutional announcements, alumni achievements, industry insights, and relevant articles.
- Users can engage with news updates by liking, commenting, and sharing posts, fostering community interaction and engagement.

### **Mentorship Capabilities:**

- The platform offers mentorship capabilities where alumni can offer mentorship to current students or seek mentorship from other alumni.
- Users can create mentorship profiles highlighting their areas of expertise, availability, and preferred communication methods.
- A messaging feature allows mentor-mentee communication, facilitating meaningful connections and professional development opportunities.

### **Job Sharing Functionalities:**

- A job board enables alumni to share job opportunities, internships, and career-related resources within the alumni network.
- Job postings include details such as job title, company name, location, job description, qualifications, and application instructions.
- Users can search and filter job postings based on criteria such as industry, location, job type, and experience level, empowering alumni to explore career opportunities within the alumni network.

## **Non-Functional Requirements**

### **Constraints:**

- The alumni network platform must be developed using the Python (MySQL, Python, Django, HTML, CSS, JS) stack AI to ensure a robust and scalable solution.
- Compatibility with modern web browsers such as Edge, Chrome, Firefox, and Safari should be ensured to provide a seamless user experience across different devices.

### **Glossary:**

- Admin: A user with administrative privileges who can manage the platform, including uploading data, managing user accounts, and accessing analytics.
- Alumni: Graduates of the educational institution who are registered members of the alumni network platform.
- Current Students: Students currently enrolled at the educational institution who have access to the alumni network platform.
- Alumni Directories: A centralized database containing profiles of alumni, including their personal, educational, and professional information.
- Events Calendar: A feature that displays upcoming alumni events, reunions, workshops, and other activities, allowing users to RSVP and participate.
- News Updates: A section of the platform dedicated to sharing news, announcements, achievements, and relevant articles within the alumni community.
- Mentorship Capabilities: Features that enable alumni to offer mentorship to current students or seek mentorship from other alumni, fostering professional development and networking opportunities.
- Job Sharing Functionalities: Tools for sharing job opportunities, internships, and career-related resources among alumni and current students, facilitating career advancement and job placement within the alumni network.

## Flow Chart:

