

Alumni-Link Workflow

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Project ID	6
Problem Statement	Alumni Network Platform
Stack	MEAN

1. Project Initialization

- **1.1. Project Setup**
 - Define project scope and objectives.
 - Assemble the development team.
 - Choose technologies and tools.
- **1.2. Requirement Gathering**
 - Identify user requirements (students, alumni, mentors).
 - Document functional and non-functional requirements

2. System Design

- **2.1. Architecture Design**
 - Define system architecture (frontend, backend, database).
 - Create data models and database schema.
- **2.2. UI/UX Design**
 - Design wireframes and mockups for all pages.
 - Define user interface elements for login, profile, events, etc.
- **2.3. Workflow Diagram**
 - Create flowcharts for user interactions and system processes.

3. Development

- **3.1. Frontend Development**

- **Login Page:** Implement user authentication (students, mentors, alumni).
- **Home Page:** Display latest posts from alumni.
- **Events Page:** Allow mentors to create and manage events; alumni can approve; students can view events.
- **Profile Page:** Enable alumni to create and update profiles; students and mentors can view profiles.
- **Message Page:** Facilitate direct messaging between students and alumni.

- **3.2. Backend Development**

- **Authentication:** Implement login and registration mechanisms (Google Sign-In).
- **Database Integration:** Connect frontend with the database for storing user data and posts.
- **Event Management:** Develop functionality for event creation, approval, and viewing.
- **Profile Management:** Implement CRUD operations for alumni profiles.
- **Messaging System:** Develop direct messaging feature between users.

- **3.3. API Development**

- Design and implement APIs for frontend-backend communication.
- Ensure APIs cover all required functionalities (profile data, messaging, events).

4. Testing

- **4.1. Unit Testing**

- Test individual components and features for functionality.

- **4.2. Integration Testing**

- Ensure different components work together as expected.

- **4.3. User Acceptance Testing (UAT)**

- Conduct testing with actual users (students, alumni, mentors) to validate requirements.
- **4.4. Bug Fixing**
 - Identify and resolve issues discovered during testing.

5. Deployment

- **5.1. Deployment Preparation**
 - Set up a production environment.
 - Perform final checks and optimizations.
- **5.2. Launch**
 - Deploy the platform to the production server.
 - Monitor deployment and address any immediate issues.

6. Maintenance and Support

- **6.1. Monitoring**
 - Continuously monitor system performance and user activity.
- **6.2. Updates and Improvements**
 - Implement updates based on user feedback and evolving requirements.
- **6.3. Support**
 - Provide ongoing support and address user issues.