FAST ALUMNI MANAGEMENT SYSTEM
(Web App)

Project Proposal

Overview

Motivation for the Project

The motivation behind the **FAST Alumni Management System** (FAMS) is to create a centralized platform that enables university to maintain a lasting connection with their alumni. This platform will help in fostering communication, organizing events, managing donations, and creating networking opportunities for both alumni and current students. The system aims to provide a comprehensive solution to streamline alumni engagement, enhance relationships, and encourage alumni contributions to institutional growth.

Customer

Primary stakeholders include alumni members, administrative staff, and current students who may benefit from mentorship, career services, and networking opportunities facilitated by the system.

Deliverables

The project will deliver a **new web-based platform** with features like:

- Alumni profiles
- Event management
- Donation and fundraising
- Career support and networking
- Analytics and reporting

Project Timeline

The estimated project duration is **14 weeks**. This includes planning, design, development, testing, and deployment phases.

Dependencies on Other Projects

No other external projects are directly dependent on the results of this project. However, the success of this project may influence future plans for expanding alumni engagement and fundraising efforts.

Contribution from Other Projects

This project will leverage **existing institutional systems**, such as the institution's **Student Information System (SIS)** for initial alumni data and any existing **content management system (CMS)** for news or updates. Integration with third-party services like payment gateways or CRM tools may also be required to enhance functionality. Some APIs will be adopted like for calendars, resources downloading, payment methods, registration authentications etc.

Project Goals

Functional Goals:

- Develop a web-based **Alumni Management System** for alumni, students, and affiliated industry professionals.
- Include features such as profiles, job boards, event management, and mentorship programs.
- Provide data insights through salary reports and career path visualizers.

Technological Goals:

- Build a scalable and secure platform using modern web technologies.
- Ensure compatibility with various devices and browsers.
- Integrate with strong database and third-party services (APIs).

Quality Goals:

- Ensure high performance, minimal downtime, and fast load times.
- Create a user-friendly interface with intuitive navigation.
- Maintain high data security standards and compliance with regulations.

Organizational Goals:

- Apply advanced web development methodologies and tools.
- Test and integrate new technologies to enhance functionality.
- Provide staff training and support.

Constraints:

- **Environmental Constraints:** Optimize performance across various internet conditions and hardware.
- **Application Standards:** Follow institutional and data privacy standards.
- **National Standards:** Comply with data protection laws.
- **Cultural Relationships:** Ensure inclusivity in design and content.
- **Access Restrictions:** Restrict access to university-affiliated individuals and industry partners only.

Project Scope

The project will include the following features:

1. **User Registration and Authentication**

   Alumni can securely register and log in using their personal emails validated strongly through their NU ids, CNIC, Degree and info provided by the university. Undergrad students can also get registered through their active NU Ids.

2. **Alumni Profile Management**

   Alumni and undergrads can edit personal details, update their career information, and manage privacy settings.

3. **Searchable Alumni Directory**

   Allows users to search for alumni based on filters like name, graduation year, degree, location, or profession.

4. **Peer Review and Feedback System:**

   Implement a peer review system where alumni and students can provide and receive feedback on projects, presentations, and professional work.

5. **Event Management**

   List and manage upcoming events with online registration, RSVPs, ticketing, and calendar integration.

6. **Donation and Fundraising Platform**

   Support for online donations, fundraising campaigns, and tracking of contributions with payment gateway integration.

7. **Job Board and Career Services**

   Post and browse job opportunities, and access career resources like mentorship programs and career advice.

8. **Networking and Forums**

   Alumni can engage in discussion forums or join interest-based groups for professional or social networking.

9. **Mentorship Program**

   Alumni can participate as mentors or mentees, with matching algorithms to facilitate mentorship relationships.

10. **News and Updates Section**

    A space for the institution to post updates, alumni success stories, blogs, and relevant news articles.

11. **Resource Library with Downloadable Materials**

    Access to a library of educational and professional resources, including PDFs, reports, whitepapers, and other downloadable materials relevant to alumni.

12. **Interactive Alumni Forum with Expert Q&A**

A forum where alumni can participate in Q&A sessions with industry experts, thought leaders, or faculty, fostering knowledge exchange and professional growth.

13. Industry Partnership Portal

A dedicated section for industry partners to post internships, job opportunities, and collaborative projects, facilitating direct connections with students and alumni.

14. Salary Reports

The Salary Reports feature enables alumni to submit their salary ranges, which are then visualized through interactive bar graphs and pie charts. This tool provides insights into salary trends by graduation batch, industry domain, and salary ranges. Users can explore graphical reports to compare salaries, identify trends, and make informed career decisions.

15. Project Collaboration and Assistance Hub

The Project Collaboration and Assistance Hub connects users for collaborative project work, allowing them to list opportunities and request assistance. It features tools for resource sharing, milestone tracking, and expert consultations. Users can seamlessly work together, receive guidance, and monitor project progress within the platform. Freelancing opportunity will be increased for Fastians.

16. Help and Guidelines

The read only manual will be provided on how to use the app.

Existing Work:

While universities like NUST, Harvard, and Oxford have established alumni systems, our platform will be a novel addition at our university. We will ensure to make the web interactive for Alumni, Current students and industry experts. There is no such platform currently running in the university, so it will be the first to be launched. The opportunity will be distributed among Fast students allowing them to grow and strengthen their networks in the industry. With unique features such as freelancing opportunities, project collaboration, and detailed salary reports, our system will offer new ways for users to connect and grow professionally, making it a valuable and distinctive resource for our community.