Software Requirement Specification (SRS)

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Problem Statement :	Alumni Network Platform

1.Introduction

The Alumni Network Platform is a web-based application designed to facilitate communication and collaboration among alumni and current students of an educational institution. The platform aims to create a supportive community where users can connect, share resources, mentor each other, and stay updated with relevant news and events.

2. Scope

The scope of the Alumni Network Platform includes:

- User registration and authentication for alumni and current students
- Alumni directory with search and filter capabilities.
- Event management system with calendar view.
- Mentorship activities management.
- Job opportunities posting and application.
- News updates section for sharing relevant information.

3. Purpose

The purpose of the Alumni Network Platform is to:

- Facilitate communication and networking among alumni, current students.
- Provide a platform for mentorship and professional development opportunities.
- Enable alumni to share job opportunities and stay connected with their alma mater.
- Enhance engagement and collaboration within the alumni community.

4.General Description

The Alumni Network Platform will serve as a centralized hub for alumni engagement and networking. Users of the platform include alumni who have graduated from the institution, current students enrolled in courses, and alumni coordinators responsible for organizing events and activities. The platform addresses the need for alumni to stay connected with their alma mater and provide support to current students in their academic and professional endeavors.

5.Functional Requirements

5.1 User Management

- FR-1: Users can register for an account with their name, email, and password.
- FR-2: Users can log in to the platform using their registered credentials.
- FR-3: User authentication is required for accessing platform features.

5.2 Alumni Directory

- FR-4: Users can search and filter alumni profiles based on criteria such as location, graduation year, company name, and role.
- FR-5: Alumni profiles display detailed information including name, graduation year, current employment, and contact details.

5.3 Event Calendar

- FR-6: The event calendar shows a list of upcoming events, including event name, topic, date, time, and location.
- FR-7: Users can view past events on the event calendar.

5.4 Mentorship Activities

- FR-09: Alumni receive event invitations and can accept or reject them.
- FR-10: Students can attend mentorship events by viewing event details and joining the event.

5.5 Job Opportunities

- FR-11: Alumni can post job opportunities on the platform, including job details and application instructions.
- FR-12: Current students can view job postings and apply for jobs directly through the platform.

5.6 News Updates

- FR-13: Users can share news updates, articles, and announcements relevant to the alumni community.
- FR-14: News updates are displayed in a chronological feed for users to stay informed.

6.Interface Requirements

The user interface of the Alumni Network Platform should be intuitive and user-friendly, with clear navigation and easy access to features. It should include:

- User registration and login pages.
- Alumni directory search and filter functionalities.
- Event calendar displaying upcoming and past events.
- Job postings.
- News updates feed with sharing and commenting options.

7.Design Constraints

- The platform is restricted to users affiliated with the specific educational institution.
- Users must adhere to community guidelines and policies when interacting on the platform.

8.Non-Functional Requirements

8.1 Performance

- NFR-1: The platform should have fast response times to ensure a smooth user experience.
- NFR-2: The event calendar should be updated in real-time to reflect any changes or additions

8.2 Security

- NFR-3: User data should be encrypted and stored securely to prevent unauthorized access.
- NFR-4: Secure authentication mechanisms to protect user accounts from unauthorized login attempts.

8.3 Usability

- NFR-5: Intuitive user interface design with clear navigation and easy access to features.
- NFR-6: Accessibility features to ensure usability for users with disabilities.

9.System Architecture

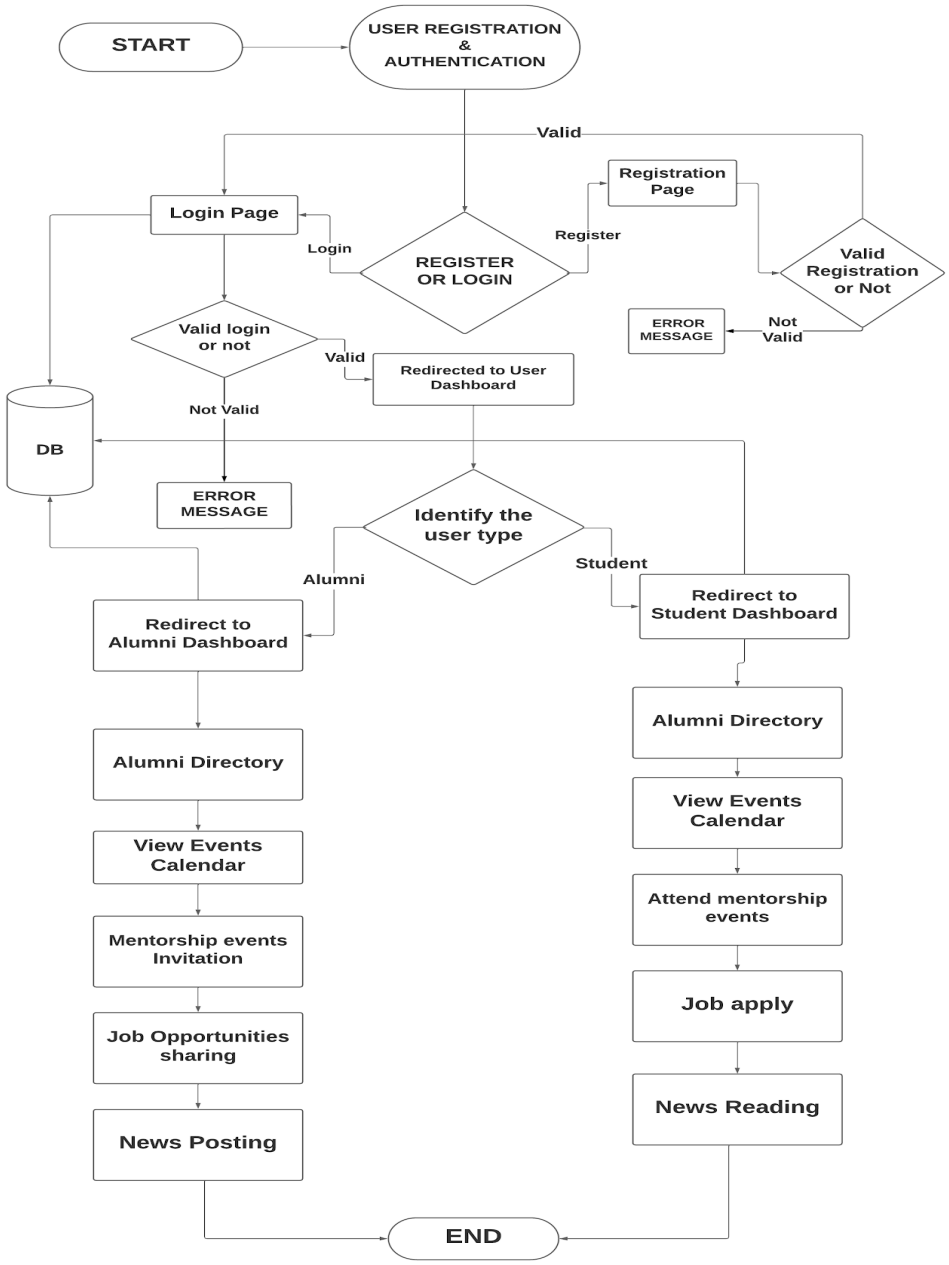
The Alumni Network Platform will be developed utilizing the MERN stack, which encompasses MongoDB, Express.js, React, and Node.js. This comprehensive JavaScript-based solution empowers the platform's frontend and backend development. MongoDB will serve as the NoSQL database, while Express.js and Node.js will handle the server-side logic. React will be leveraged to construct the sophisticated frontend user interface. By harnessing the capabilities of the MERN stack, the Alumni Network Platform will benefit from a cutting-edge and highly efficient development environment.

10. Glossary

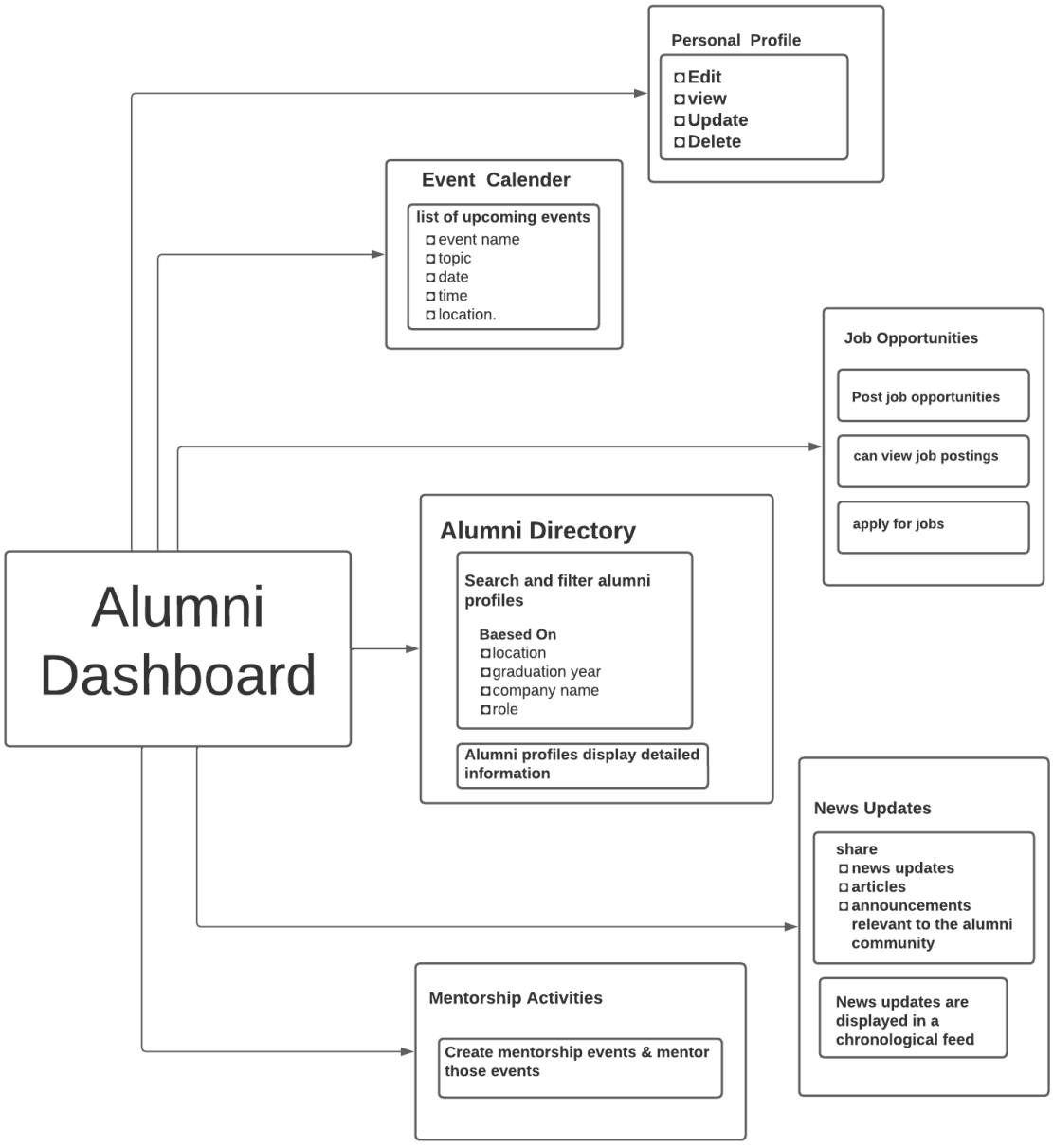
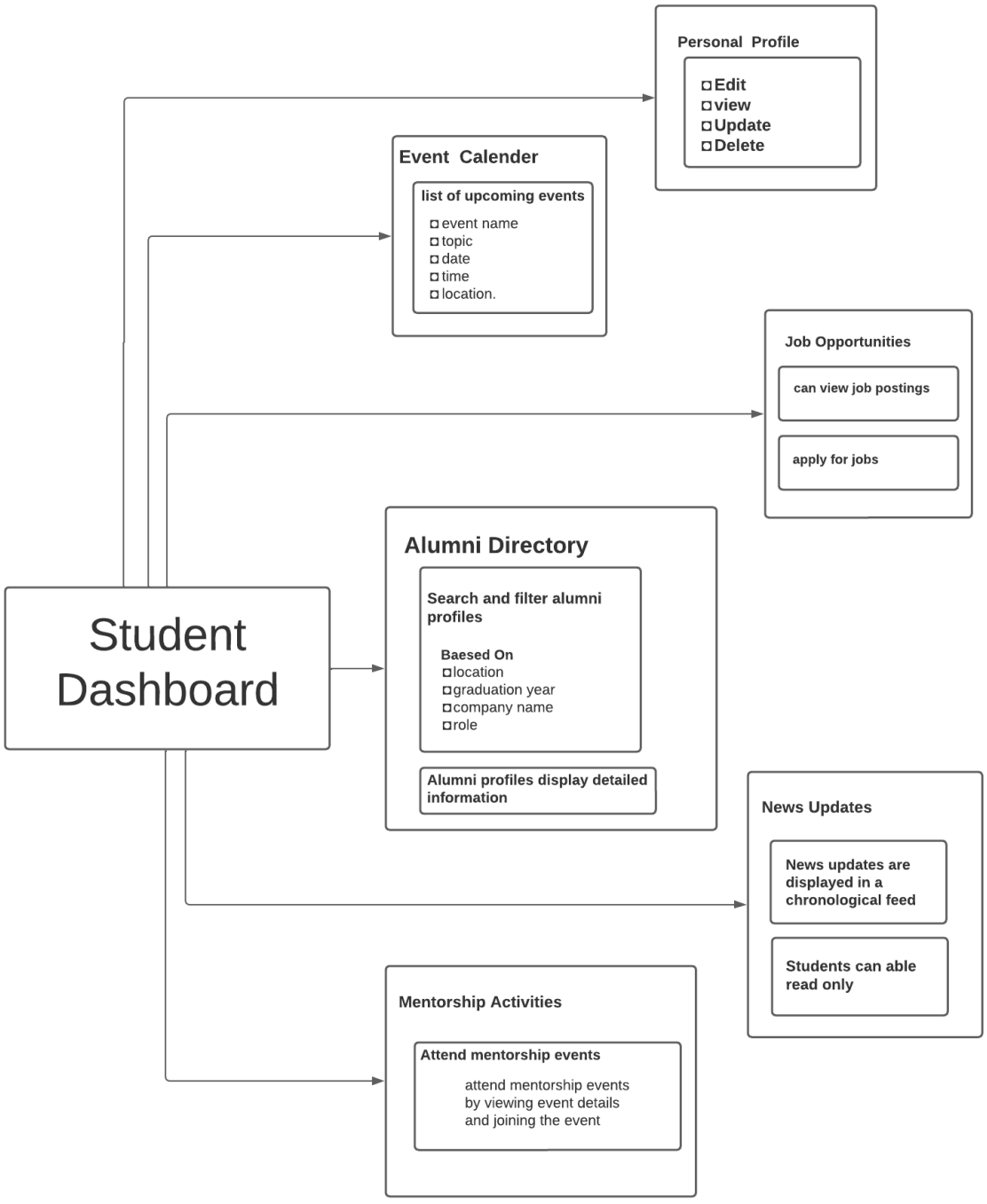
Alumni: Individuals who have graduated from the educational institution.
Current Students: Individuals currently enrolled in courses at the educational institution.

11.Appendices

Appendix A : Project Flow



Appendix B : Alumni Dashboard Interface



Appendix C : Student Dashboard Interface