
Software Requirements Specification for

<Mobile Application for MU Alumni Association>



Version 1.0 - Approved

Prepared by <Team -12>

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1. Introduction

1.1 Purpose

This document specifies the software requirements for version 1.0 of the AlumnConnect mobile application. This app will serve as a platform for alumni of Mahindra University to connect, network, and build a stronger alumni community with present students.

1.2 Document Conventions

SRS Versioning of this document will be identified by a version number and date (e.g., Version 1.0 - March 1, 2024). Formatting of the document bold text is used for headings and subheadings and Italics is used for the body of the heading.

1.3 Intended Audience and Reading Suggestions

All Readers: Begin with the Introduction (Section 1) to understand the document's purpose and scope.

Project Managers, Developers, and Testers: After the Introduction, proceed to the Overall Description (Section 2) and then delve into the Specific Requirements (Section 3). Section 3 provides the most crucial details for your roles.

Designers: Following the Introduction (Section 1), skim the Overall Description (Section 2) for general context. Then, focus on the user-related aspects and UI functionalities within the Specific Requirements (Section 3).

University Alumni Relations Team: Review the Introduction (Section 1) for the app's purpose and then focus on the Overall Description (Section 2) to understand its potential impact on alumni engagement.

1.4 Product Scope

The product scope for an alumni connect application typically focuses on facilitating communication and building relationships between current students and a successful graduate of a particular university or institution. The main benefits of this Networking Features, Mentorship Opportunities, Career Resources and Community Building.

1.5 References

- 1.<https://firebase.google.com/docs/database>

2. <https://developer.android.com/get-started>
3. <https://www.udemy.com/share/105tGo/>
4. <https://www.mongodb.com/atlas/database>

2. Overall Description

2.1 Product Perspective

The app specified in this SRS is a new, self-contained product aimed at connecting alumni of a specific college with current graduating students. It is not part of an existing product family or a replacement for any existing systems, but it serves as an independent platform for facilitating anonymous communication between alumni and students. The idea for the app originated from recognising the valuable insights and experiences that alumni can offer to current students as they navigate their academic and career paths. While the app operates independently, it may serve as a component within a larger ecosystem of services and resources provided by the college or university. It interferes primarily with its users, both alumni and current students, through a mobile-friendly interface and may utilize external APIs for functionalities such as user authentication and communication.

2.2 Product Functions

User Management:

User registration and profiles for alumni and students.

Profile management including contact information, education background, and professional experience (alumni).

Matching and Connection:

Search functionality for alumni to find relevant students based on field of study, interests, or career goals.

Allow students to browse alumni profiles and express interest in connecting. Facilitate communication channels (messaging, chat rooms) for alumni and students to connect.

Mentorship and Guidance:

Enable alumni to volunteer as mentors for students.

Matching system to connect students with suitable mentors based on needs and interests.

Tools for communication and resource sharing between mentors and students.

Community Building:

Discussion forums for alumni and students to share knowledge, ask questions, and network.

Event management features for organizing alumni-student events (career workshops, social gatherings).

Newsfeed or announcement board to share updates, job opportunities, and alumni success stories.

2.3 Operating Environment

The Alumni Connect app is built based on android 10 operating system or more , less than android 10 OS app will not be available.The minimum hardware requirements for Android 10 is Quad core 1.2 GHz,2 GB RAM ,16 GB internal storage. This application is mainly made for only android users.Storage and camera Device Permissions should be accepted for uploading Images.

2.4 Design and Implementation Constraints

Compliance with Corporate and Regulatory Policies:

As a team, we must ensure the app aligns with corporate and regulatory policies, respecting user data privacy and following any relevant guidelines.

Hardware Adaptation:

Considering diverse Android devices, our team needs to account for different hardware specifications to deliver a consistent and optimized experience for users.

Security Measures Implementation:

Collaborative efforts are crucial for implementing security measures, including user authentication and encryption, to protect user information.

Integration with External Applications:

Seamless integration with external applications and services is vital, requiring careful planning to facilitate data exchange and interoperability, enhancing the overall functionality of the app.

2.5 User Documentation

The User Manual first user must create a profile(should belong to mahindra university).The profile built page contains upload image, user name, Email id,phone number, password, student or alumni , linkedin link,github link , interests, phone number.On-line-help is provided by Chatbot if not solved user can raise ticket which will be solved by development team.

2.6 Assumptions and Dependencies

Assumptions:

In developing AlumnConnect, several assumptions have been made to guide the project. Firstly, it is assumed that the integration of third-party or commercial components will effectively enhance specific functionalities, such as chat features or event management. The success of the project hinges on the compatibility and suitability of these components to meet our requirements. Additionally, we assume the availability of a conducive development environment comprising necessary tools, libraries, and frameworks. Any alterations or constraints in this environment could potentially impact the project's timeline and deliverables. Furthermore, it is assumed that the operating environment for AlumnConnect, including the devices and platforms used by users, will conform to our specified requirements. Deviations from these assumptions could lead to compatibility issues and affect the overall user experience.

Dependencies:

The success of AlumnConnect is reliant on several external dependencies. Foremost, the project is dependent on seamless integration with third-party services or components to bolster specific functionalities. Disruptions or changes to these external dependencies could significantly impede the development and operation of the AlumnConnect app. Moreover, dependencies exist concerning the reuse of software components from other projects. It is imperative to ensure the seamless integration and compatibility of these components to avoid potential conflicts or issues during development. Additionally, the project's compliance with relevant laws and regulations, particularly pertaining to data protection and privacy, is vital. Any alterations in regulatory requirements may necessitate corresponding adjustments in the project's scope and implementation. Lastly, external resources such as server infrastructure and support services play a pivotal role in hosting and maintaining the AlumnConnect platform. Any changes or limitations in these resources could impact the project's timeline and budget.

2.7 Functional Requirement Specifications

Requirement ID: FR1

- Requirement: The system must provide a user registration and login functionality.
- Description: Users should be able to create accounts and log in securely to access the platform.
- Response to Error Conditions: If invalid credentials are entered during login, the system should display an error message and prompt the user to try again.

Requirement ID: FR2

- Requirement: Users should be able to create and update their profiles.

- Description: The system should allow users to input personal information, upload profile pictures, and update their profiles as needed.
- Response to Error Conditions: If required fields are left blank or invalid data is entered, the system should prompt the user to correct the errors before saving the profile changes.

Requirement ID: FR3

- Requirement: Users must have access to a chat feature for communication.
- Description: The system should provide a chat interface where users can send and receive messages in real-time.
- Response to Error Conditions: If there are connectivity issues or errors in sending messages, the system should notify the user and attempt to resend the message.

Requirement ID: FR4

- Requirement: Users should be able to participate in events or counseling sessions by booking slots.
- Description: The system should allow users to view upcoming events, hackathons, career related sessions and book available slots.
- Response to Error Conditions: If the event is full or the booking process encounters errors, the system should inform the user and provide alternative options if available.

Requirement ID: FR5

- Requirement: The system must provide access to a mentorship application for alumni.
- Description: Alumni should be able to apply for mentorship through the app.
- Response to Error Conditions: If there are errors in the mentorship application process or missing information, the system should prompt the user to complete the required fields.

Requirement ID: FR6

- Requirement: Users should be able to customize their settings.
- Description: The system should allow users to adjust settings such as notification preferences and privacy settings.
- Response to Error Conditions: If changes cannot be saved or there are errors in the settings customization, the system should display an error message and prompt the user to try again.

Requirement ID: FR7

- Requirement: Users must be able to view their booking history.
- Description: The system should provide users with a history of their past events or mentorship bookings.
- Response to Error Conditions: If the booking history cannot be retrieved or there are errors in displaying the information, the system should inform the user and attempt to resolve the issue.

Requirement ID: FR8

- Requirement: Administrators should receive notifications about new profiles,new posts/blogs,career related notifications.
- Description: The system should notify administrators when new user profiles,new posts/blogs,career news are created.
- Response to Error Conditions: If notifications cannot be sent or there are errors in the notification process, the system should log the issue for investigation.

Requirement ID: FR9

- Requirement: Admins must have access to data records through the admin panel.
- Description: The system should provide administrators with access to user data and interaction records for monitoring and management purposes.
- Response to Error Conditions: If there are errors in accessing or displaying the data, the system should inform the administrator and attempt to resolve the issue.

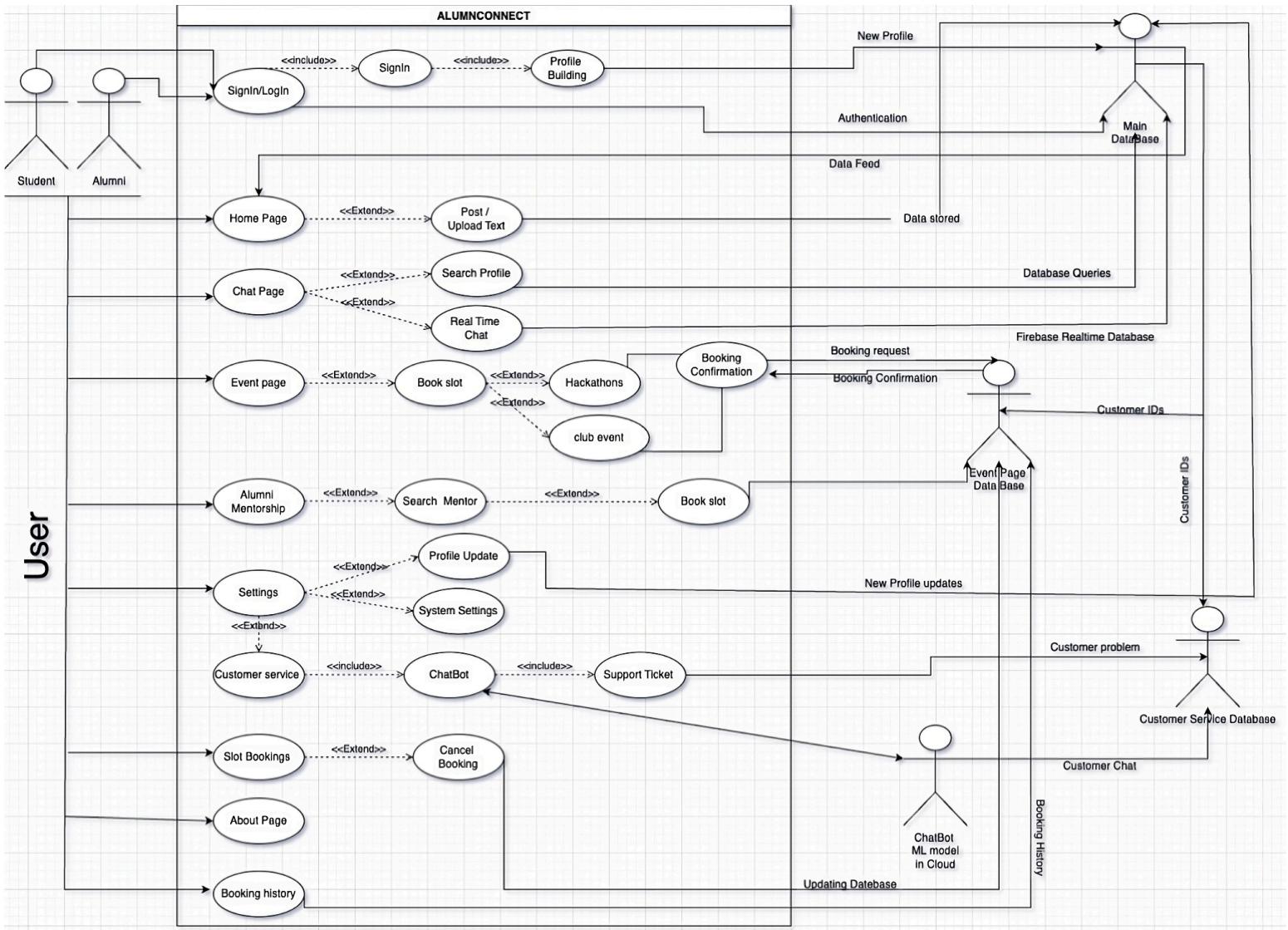
Requirement ID: FR10

- Requirement: Customer service representatives should handle reported problems via chat or email.
- Description: The system should route user-reported issues to customer service representatives for resolution.
- Response to Error Conditions: If there are errors in routing or handling user-reported problems, the system should escalate the issue and notify appropriate personnel for resolution.

2.7.1 Role use case 1

Use case: use case 1

Diagram: <https://github.com/Abhijit7979/Mobile-application-for-MU-Alumni-Association/blob/main/UML.pdf>



Brief Description :

Alumni Association was established with aim to promote fellowship among alumni, exchange ideas, spread knowledge, stimulate thinking. The alumni association application aims to deliver comprehensive functionalities encompassing alumni and student engagement, including alumni directory management, messaging and chat features, event and career-related news uploads, and alumni mentorship facilitation. The application will serve as a centralized platform offering alumni diverse interaction opportunities such as query exchanges akin to blog or wall posts, with provisions for responses. Additionally, the project includes a commenting feature enabling alumni to share statuses, with capabilities for liking, sharing, and commenting on posts. Furthermore, the application incorporates a slot booking system for mentorship sessions connecting students with alumni mentors.

Initial Step-By-Step Description

Sign In/Login: The alumnus initiates the process by entering their signin or login credentials.

Authentication: The system sends the credentials to the Authentication component to verify the alumnus's identity.

Data Fetch (Successful Login): If the authentication is successful, the Data Fetch component retrieves the alumnus's profile data from the database.

Create New Profile: If a new user doesn't have an existing account, they can create a new profile within the application.

Update Profile: Alumni can update their profiles with new information or edits to their existing information.

Search Profile: Alumni can search for other alumni profiles within the application based on various criteria.

Mentorship: The system facilitates a mentorship function, possibly allowing students/alumni to search for mentors within the Alumni Association network for career counseling or any job related issues.

Event Page: The system displays a web page or section dedicated to events managed by the Alumni Association. This likely includes a listing of upcoming events, details about each event, and potentially a booking functionality for event registration.

Booking a Slot:

- **Book Slot:** The alumnus selects the "Book Slot" option from the main menu.
- **Data Fetch (Booking Details):** The system fetches data relevant to slot booking, such as available slots or booking options. This data might be retrieved from the database or another source.
- **Event Page (or Booking Selection):** The system displays the event page or a selection menu showing available booking options (e.g., slots for appointments or specific event registrations).
- **Booking Confirmation:** The alumnus confirms their selection for the booking slot.
- **Data Store:** The system stores the booking information in the database.
- **Booking Confirmation (Alumnus):** The system provides a confirmation to the alumnus about their successful booking.

Booking History: The system maintains a record of the alumnus's booking history within the application. This might include bookings for events, appointments, or other services offered through the application.

Customer Service:

- **Customer Problem:** The alumnus encounters an issue while using the application and initiates a chat with the customer service chatbot. ChatBot: The ChatBot

interacts with the alumnus to understand their problem and potentially provide a resolution.

- **Support Ticket:** The system allows users to generate support tickets to communicate with customer service representatives and address any issues they face while using the application.

System Settings: The system might have a designated section for managing settings related to the application's functionalities or user preferences.

3. External Interface Requirements

3.1 User Interfaces

Sign In/Login: The alumnus initiates the process by entering their signin or login credentials.

Create New Profile: If a new user doesn't have an existing account, they can create a new profile within the application.

Update Profile: Alumni can update their profiles with new information or edits to their existing information.

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Customer Problem: The alumnus encounters an issue while using the application and initiates a chat with the customer service chatbot. ChatBot: The ChatBot interacts with the alumnus to understand their problem and potentially provide a resolution.

Support Ticket: The system allows users to generate support tickets to communicate with customer service representatives and address any issues they face while using the application.

3.2 Hardware Interfaces

The hardware interfaces for the Alumni Connect application are tailored to align with Android mobile devices, thus limiting compatibility to this platform. Integration with Android devices mandates explicit permission management for critical hardware components. These include permissions for accessing the device's display for rendering graphical user interfaces (GUIs), utilizing the camera for imaging and multimedia functionalities, enabling the fingerprint sensor for biometric authentication, accessing the keyboard input for user interaction, and facilitating push notifications for timely communication with users. These permissions are integral to the proper operation of Alumni Connect, ensuring compliance with Android platform standards while providing users with a comprehensive and feature-rich mobile experience.

3.3 Software Interfaces

Alumni Connect app interfere with multiple software components, including:

Integrated development environment(IDE): Android Studio.

programming languages: Kotlin, java.

Database system: Firebase, MongoDB.

3.4 Communications Interfaces

Email:

The system will support email notifications for user activities and updates, using SMTP(Simple Mail Transfer Protocol) for message transmission. Emails will be formatted in HTML for improved readability and user engagement, and communication will be encrypted using TLS for security.

Network Server Communications Protocols:

Secure protocols, primarily HTTPS, will be used for server-client interactions, including user authentication and data retrieval. HTTPS ensures end-to-end encryption and data integrity, protecting sensitive information from unauthorized access and tampering.

Message formatting:

Text Messages: Messages exchanged between users will be presented in a clear and readable format, using standard text formatting options such as font size, style, and color.

Notification Messages: Notification messages should be concise and informative, prompting users to take action or engage with the platform as necessary.

System Alerts: Alert messages should use distinct formatting or visual cues to ensure they are easily distinguishable from regular messages and draw immediate attention from users.

Feedback Forms: Feedback forms should be user-friendly and intuitive, guiding users through the submission process and capturing relevant information effectively.

Encryption:

All communications and data transfers within the platform will be encrypted to ensure user privacy and data security. Strong encryption protocols will be implemented to protect sensitive information exchanged between users.

Data Transfer Rates and Synchronization Mechanisms:

The system will aim for high-speed data transfer rates to minimise latency and enhance the user experience. Synchronization mechanisms, such as asynchronous data synchronization and caching, will be implemented to ensure data consistency and reduce network overhead.

4. System Features

4.1 Search Article

Use Case Name	ALUMN CONNECT
XRef	1. https://firebase.google.com/docs/database 2. https://developer.android.com/get-started 3. https://www.udemy.com/share/105tGo/ 4. https://www.mongodb.com/atlas/database
Trigger	The Reader assesses the Online Journal Website
Precondition	1. The student is logged into the AlumnConnect app. 2. The student has agreed to the terms of anonymity and data privacy.
Basic Path	1. The student selects the option to connect with alumni in the AlumnConnect app. 2. The app presents options for connecting: <ul style="list-style-type: none"> • Browse Alumni Profiles • Ask a Query 3. If the student chooses to interact anonymously: <ul style="list-style-type: none"> • The student selects the option to remain anonymous. • Proceed to Step 5. 4. If the student chooses not to interact anonymously: <ul style="list-style-type: none"> • The student interacts openly with alumni, and their identity is disclosed. 5. If the student selects to browse alumni profiles: <ul style="list-style-type: none"> • The app displays a list of available alumni profiles.

	<ul style="list-style-type: none"> • The student can anonymously view alumni profiles, but not their professional background and expertise, if selected. <p>6. If the student selects to ask a query:</p> <ul style="list-style-type: none"> • The app presents a form or chat interface for submitting questions. • The student anonymously submits a question regarding career advice, job opportunities, or other relevant topics, if selected. <p>7. The app forwards the question to a pool of available alumni.</p> <p>8. An alumni volunteer responds to the student's question only if he/she wants to accept the student's query.</p>
Alternative Paths	<ol style="list-style-type: none"> 1. If there are no available alumni to answer the student's question immediately, the app notifies the student and suggests checking back later. 2. If the student decides not to ask a question, the interaction ends. 3. If there are technical issues or network problems, the app notifies the user and suggests trying again later.
Postcondition	The student receives guidance and support from alumni regarding career-related queries through the AlumnConnect app, with the option to remain anonymous.
Exception Paths	<ol style="list-style-type: none"> 1. The student may cancel the interaction at any time. 2. If there are technical issues or network problems, the app notifies the user and suggests trying again later.
Other	Both alumni and students have the option to opt-in or opt-out of anonymous interactions within the AlumnConnect app.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

1. Login and authentication:

Requirement: The system must authenticate users in normal load situations.

Rationale: Quick authentication provides a smooth user experience and reduces annoyance during login attempts.

2. Messaging system

Requirement: Messages sent through the application should be delivered to the recipient's inbox, regardless of the recipient's location or network conditions.

Rationale: Instant message delivery encourages alumni to communicate and collaborate in real time, increasing the platform's value.

3. Real-Time Updates (Timing Relationship):

Requirement: Any updates made by one user should be reflected in real-time for all other users.

Rationale: Real-time updates enhance collaboration and engagement among users, providing a seamless and interactive experience.

Concurrent User Support:

4. Concurrent User Support

Requirement: The system must accommodate concurrent users without degrading performance.

Rationale: User activity on Alumni Connect may rise during peak hours or exceptional events. Scalability ensures that all users receive uninterrupted service.

5. Fault Tolerance:

Requirement: The system must recover from errors and return normal operation, with minimal data loss or impact on the user experience.

Rationale: Fault tolerance ensures high availability and dependability, minimizing service disruptions and data loss.

5.2 Safety Requirements

1. Prevention of Unauthorized Access:

Requirement: The application must restrict unauthorized access to user accounts, sensitive data, and administrative features.

Safeguards: Implement strong password policies, employ role-based access control (RBAC), and enforce secure session management practices such as session timeouts and CSRF (Cross-Site Request Forgery) protection.

Preventive Measures: Regularly monitor user access logs, enforce account lockout mechanisms after multiple failed login attempts.

Regulations: Depending on the type of data and the application's target audience, various industry-specific norms and standards may apply.

Safety certifications: Certified Information Security Manager (CISM) certification is for professionals in charge of administering information security programmes and ensuring compliance with security policies and regulations.

2.Incident Response and Data Breach Management:

Requirement: The organization must have a documented incident response plan outlining procedures for detecting, containing, and mitigating security incidents, including data breaches.

Safeguards: Establish a dedicated incident response team, define escalation procedures, and establish communication protocols for notifying affected parties, regulatory authorities, and law enforcement agencies.

Preventive Measures: Conduct regular tabletop exercises and simulations to test the effectiveness of the incident response plan, train employees on their roles and responsibilities during a security incident, and maintain up-to-date contact information for key stakeholders.

Regulations: GDPR mandates the reporting of data breaches to the relevant supervisory authority within 72 hours of discovery, along with notifications to affected individuals if the breach is likely to result in a high risk to their rights and freedoms.

Safety Certifications: Certified Information Security Auditor (CISA) certification for professionals responsible for auditing information systems and assessing their compliance with regulatory requirements and industry standards.

3.Backup and Disaster Recovery:

Requirement: The application must implement regular backup procedures to ensure the availability and integrity of user data, and maintain disaster recovery plans to restore service in the event of data loss or system failure.

Safeguards: Utilize automated backup solutions with redundancy and off-site storage, conduct periodic data restoration tests, and document procedures for restoring service in different disaster scenarios.

Preventive Measures: Monitor backup processes for errors or failures, regularly review and update disaster recovery plans based on changing infrastructure and business requirements, and ensure sufficient resources are allocated for timely data restoration in case of emergencies.

4.Third-Party Integration Security:

Requirement: Any third-party integrations used within the application, such as social media login APIs or analytics services, must undergo thorough security assessments and adhere to strict data protection standards.

Safeguards: Review third-party integration contracts for data security and privacy clauses, restrict data sharing to only essential information, and monitor third-party access to user data.

Preventive Measures: Regularly audit third-party integrations for compliance with security best practices, and maintain contingency plans for mitigating risks associated with third-party data breaches or service disruptions.

5.3 Security Requirements

These security and privacy criteria ensure that the Alumni Connection application software effectively protects user data and privacy, adheres to applicable rules, and maintains a high level of security resilience against potential threats and vulnerabilities.

1) User Identity Authentication:

Requirement: The application must provide robust user identity authentication measures, such as username-password combinations or biometric authentication, to ensure that only authorized users have access to the system.

Justification: User identity authentication prevents unauthorized access to sensitive data and application functionalities, hence protecting user privacy and confidential information.

2) Data Encryption:

Requirement: All data transmitted between the user's device and the application's servers must be protected using industry-standard encryption protocols (such as SSL/TLS) to prevent unauthorised interception or alteration.

Justification: Encryption ensures that sensitive data, such as user passwords, personal information, and communication data, stays safe and secure throughout transmission, reducing the danger of data breaches and privacy violations.

3) Access Control and Authorization:

Requirement: Access to sensitive features and data within the application must be restricted based on user roles and permissions, with granular access controls enforced to prevent unauthorized access.

Justification: Role-based access control (RBAC) ensures that users only have access to the functionalities and data necessary for their roles, minimizing the risk of unauthorized access and data breaches.

4) Security Audits and Penetration Testing:

Requirement: The application must undergo regular security audits and penetration testing by qualified third-party security professionals to identify and address vulnerabilities and weaknesses in its infrastructure and codebase.

Justification: Security audits and penetration testing help proactively identify and remediate security vulnerabilities before they can be exploited by malicious actors, enhancing the overall security posture of the application.

5) Privacy Policies and Consent Management:

Requirement: The application must provide users with clear and comprehensive privacy policies outlining the types of data collected, how it is used, and with whom it is shared, and obtain explicit consent from users for data collection and processing activities.

Justification: Transparent privacy policies and consent mechanisms empower users to make informed decisions about their data and establish trust by demonstrating the application's commitment to respecting user privacy rights.

5.4 Software Quality Attributes

Adaptability:

It can be demonstrated through the timely implementation of new features or functionalities in response to user feedback.

Availability:

The application should be highly available, with minimal downtime for maintenance or upgrades

Correctness:

Definition: The accuracy of the software in meeting specified requirements.

Verifiable: Maintain comprehensive test suites and perform regular regression testing.

Flexibility:

Definition: The ease of making changes to the software without affecting other parts.

Verifiable: Maintain a modular architecture and track change requests.

Interoperability:

Definition: The ability of the software to work seamlessly with other systems.

Verifiable: Test integration points and validate data exchange.

Maintainability:

Definition: The ease with which the software can be modified, enhanced, or repaired.

Verifiable: Keep track of code changes, use version control, and measure code churn.

Portability:

Definition: The ability of the software to run on different platforms or environments.

Verifiable: Test the application on various platforms and document compatibility issues.

Reliability:

Definition: The degree to which the software consistently performs specific functions under predefined conditions for a set period.

Verifiable: Monitor system logs and track incidents of unexpected failures.

Reusability:

Definition: The extent to which software components can be reused in other contexts.

Verifiable: Maintain a library of reusable modules.

Testability:

Definition: The ease with which the software can be tested.

Verifiable: Implement unit tests, integration tests, and automated test suites.

Usability:

Definition: The extent to which the software is user-friendly and intuitive.

Verifiable: Conduct usability testing, analyze user feedback, and track task completion rates.

Usability might be more critical for end-users, while Maintainability is crucial for developers.

6. Other Requirements

Data Privacy and Security:

- The system should comply with data privacy regulations and implement robust security measures to protect sensitive information.

Integration with Social Media Platforms:

- The system may integrate with popular social media platforms to facilitate networking and engagement among alumni.
- Features may include social media sharing, integration with alumni groups/pages, and single sign-on using social media accounts.

Reporting and Analytics:

- The system should provide reporting and analytics capabilities to track usage metrics, monitor engagement, and measure the effectiveness of various features.

Support and Training:

- The system should offer user support resources such as documentation, FAQs, tutorials.

Appendix A: Glossary

Alumni Association: An organization formed by graduates or former students of a particular school, college, or university.

SRS: Software Requirements Specification, a document that describes the software product to be developed.

UML diagram: Unified Modeling Language (UML) diagram

include: "include" relationship indicates that a use case includes the behavior of another use case.

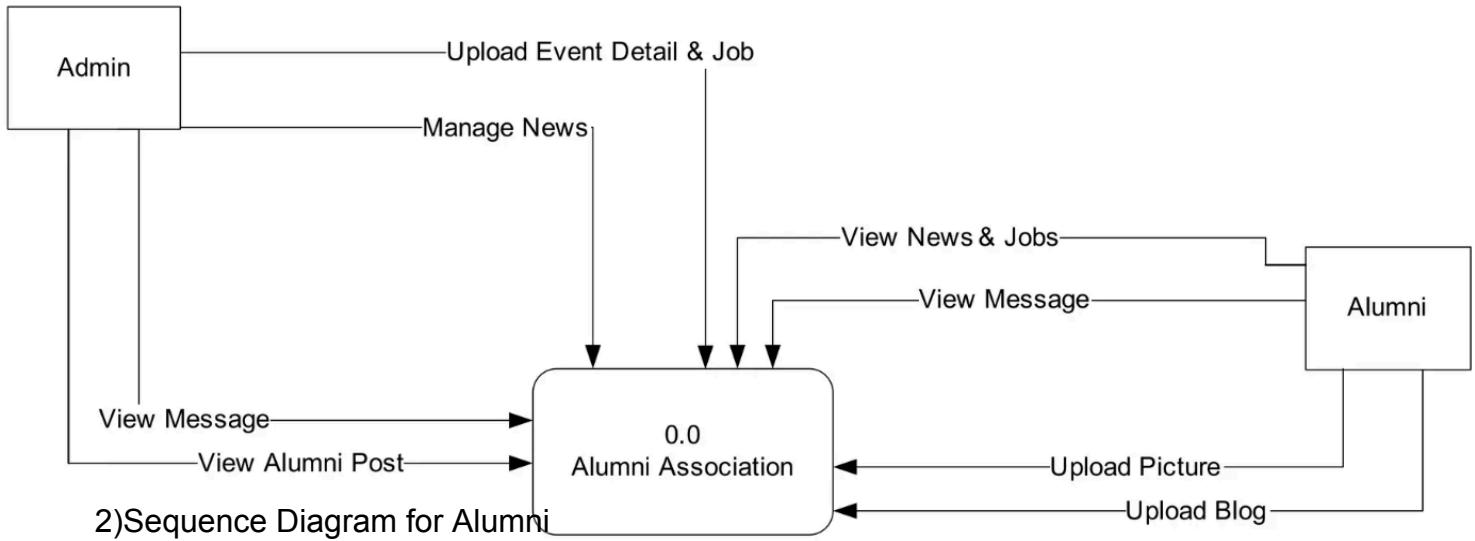
extend: an "extend" relationship signifies that a use case can extend the behavior of another use case under certain conditions.

API: "API" stands for Application Programming Interface.

Interoperability: Refers to the ability of different systems, devices, or software applications to communicate, exchange data, and work together effectively.

Appendix B: Analysis Models

1) Flow Diagram for Alumni



2) Sequence Diagram for Alumni

