
Software Requirements Specification

for

ConnVerse

Version 1.0

Prepared by Team MahaDevS

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Initial Draft (v1.0)	MahaDevs	Initiated the document. Added all the necessary details.	25/01/2024

1 Introduction

1.1 Product Scope

Connverse is a specialized social networking website tailored for the Indian Institute of Technology Kanpur (IITK) community. This platform aims to provide a comprehensive space for students and alumni to connect, collaborate, and build meaningful professional relationships. The primary focus is on fostering a vibrant community and facilitating networking opportunities within the IITK ecosystem.

Major benefits include:-

- User Profiles(Tailored for IITK):-
 - Users will be able to create detailed profiles showcasing their academic achievements, skills, other extracurricular achievements and their leadership skills(through involvement in various gymkhana clubs and societies).
- Networking with people of similar interest:-
 - Our platform will help users to reach out to diverse groups of people(including seniors, juniors as well as alums) having interest in similar fields.

1.2 Intended Audience and Document Overview

The Software Requirement Specification (SRS) document serves various people, such as developers, project managers, users, testers, and documentation writers. It provides several benefits to each of them.

Developers and project managers gain a clear understanding of the project's purpose, and functional and non-functional requirements which enables them to plan efficiently. Documentation requirements ensure the availability of user manuals and guides, helping users in navigating the website effectively. Documentation writers follow the guidelines to create accurate user manuals and testers refer to the testing requirements section to design comprehensive test cases, ensuring thorough testing.

Section 2: Overall Description

This section gives a brief overview of the purpose, functionalities, design and implementation. It is primarily targeted at project managers and developers providing them essential insights for efficient project management.

Section 3: Specific Requirements

This section provides detailed specifications, including interface requirements, and functional requirements. It is helpful for developers, testers and documentation writers offering them details for system developments, testing and documentation.

Section 4: Other Non-Functional Requirements

This section tells the non-functional aspects like performance requirements, safety and security issues and software quality attributes. It targets users and testers, allowing them to understand the expected behaviour of the system.

1.3 Definitions, Acronyms and Abbreviations

Acronym/Abbreviations	Definition
CSS	Cascading Style Sheets
GUI	Graphical User Interface
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
IITK	Indian Institute of Technology Kanpur
OTP	One-time Password
SRS	Software Requirement Specifications
UI	User Interface

1.4 Document Conventions

1. Arial font size 11 has been used throughout the SRS document.
2. The document text is single-spaced and a 1" margin has been maintained throughout the document.
3. Italics have been used for comments.

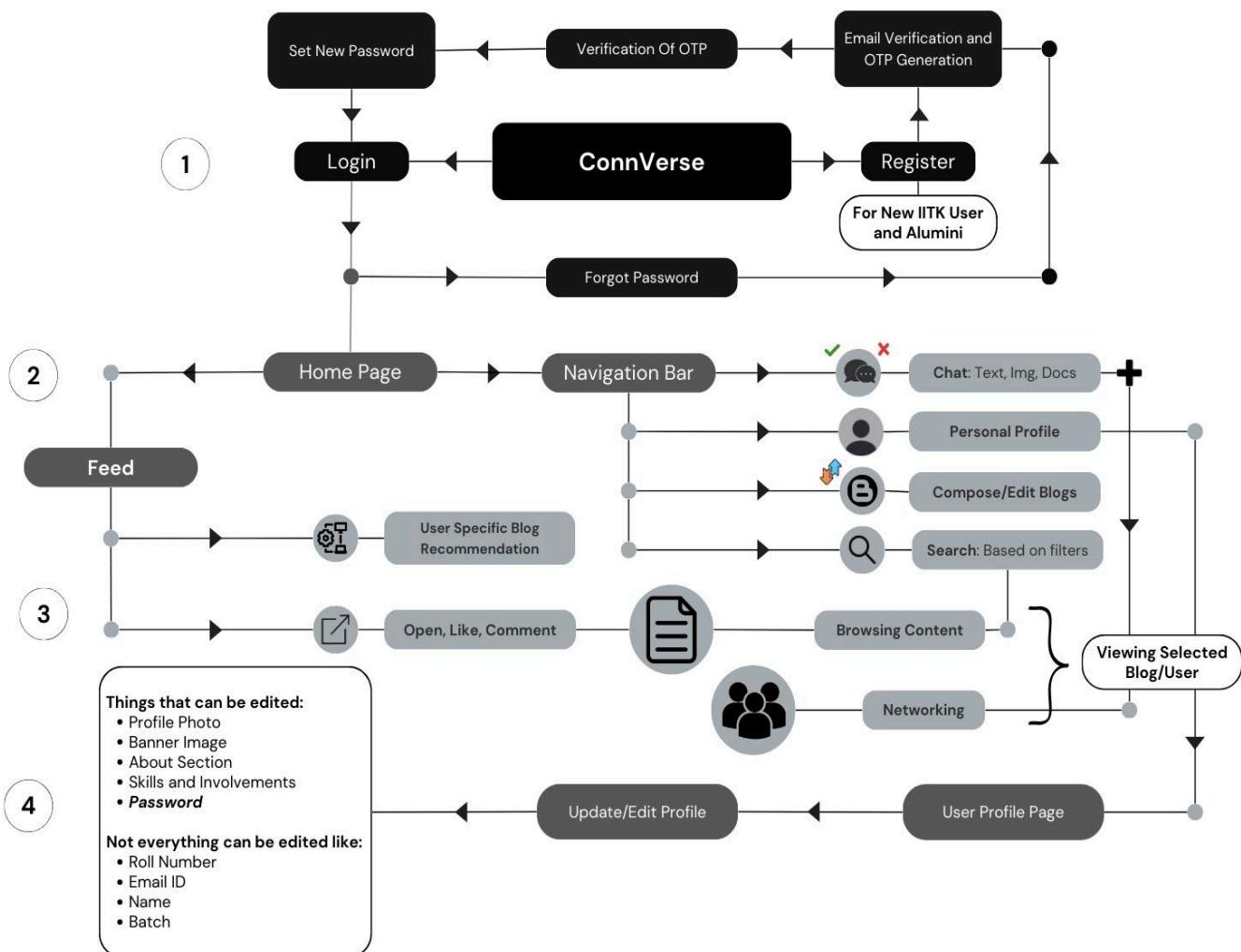
1.5 References and Acknowledgments

1. Following websites were referred for the help in creation of document:
 - o [Figma](#)
 - o [Use Case Model](#)
2. We would like to acknowledge our instructor Dr. Indranil Saha for guiding us through the process of making this document.
3. We extend our gratitude to TA Abhilash for having a discussion with us and leading us through the document creation process.

2 Overall Description

2.1 Product Overview

ConnVerse is a new, self-contained web application designed to promote social connections in our campus, with a primary focus on uniting students across various batches and programs. Serving as a centralized platform, the application seeks to bring together individuals with shared skills, club involvements, interests, and completed courses. This collaborative space aims to enhance communication and collaboration among students, transcending traditional academic and programmatic boundaries. Key features of the app include the importance of the blog feed, allowing users to share and interact with content related to their interests, and securing personal direct messaging for one-on-one communication. This product aims to use technology to connect students, enhance campus awareness, and support both on-campus learning and external studies. The figure below provides a high-level description of the main components of the system, showing the interaction with the school environment and the context in which the applications are used.



2.2 Product Functionality

- I. Authentication:
 - A. Login
 - B. Register
 - 1. OTP generation and verification
 - 2. Set password
 - 3. Login Page access
 - C. Alumni Registration
 - D. Forgot Password
 - E. Changing password for Login
- II. Personal Profile:
 - A. View Profile
 - 1. Detailed personal information
 - B. First-Time Login prompt:
 - 1. Profile creation with photo, branch, year, bio, skills, club involvements, and completed
 - C. Update/Edit Profile:
 - 1. Modify pre-existing profile details
 - 2. Editing user's own personal details
 - Edit profile photo, banner image, About selection, Skills, etc.
 - Roll number, name, and batch linked with email id and cannot be changed.
- III. Homepage:
 - A. Navigation Bar:
 - 1. Chat feature:
 - Send text messages, images and attachments
 - preview options
 - Controls : block, report
 - Managing Chats:
 - Accept or reject chat requests
 - Conversation only after accepting the chat
 - 2. View Own Profile:
 - 3. Write and Post Blog:
 - Text editing options
 - Image attachments
 - Tag-based recommendation system
 - Composing Blogs:
 - Title, Author name, body text, images and relevant tags
 - Title, Author name, body text, images, and relevant tags
 - Publish immediately or save as a draft
 - Edit Published Blogs
 - Comment, Upvote, or Downvote in Blogs
 - 4. Searching Blogs
 - 5. Searching Users
 - B. Main Feed:
 - 1. Dynamic Blog Feed:
 - Prioritized according to user profile interests
 - 2. Community Engagement:
 - Comment on blogs ,like and forward blogs for increased interaction.

2.3 Design and Implementation Constraints

The development of the campus community web application is subject to various constraints that shape its design and implementation. These constraints include :

A. Memory Requirements:

- A dedicated database is required to store user profile data and blogs efficiently.

B. Security Considerations:

- Utilization of IITK email-based authentication during user registration ensures that only legitimate users can access the system.
- For enhanced security, passwords will be stored in hashes.

C. Tools, Languages, and Databases:

- MongoDB will serve as the database to handle the substantial amount of data associated with user profiles and blogs.
- Golang will be employed to enhance performance, meet timing constraints, and execute various logical decision-making operations in the backend.
- The front end will be developed using React, HTML, CSS, and JavaScript to ensure a user-friendly, responsive, and portable GUI.

D. Communication Protocols:

- HTTP protocol will be used to communicate between the servers, ensuring smooth interactions within the system.

2.4 Assumptions and Dependencies

The design and implementation of our project are based on several assumptions and dependencies that may impact its development. These include

Assumptions:

1. All users of the software are assumed to possess a unique institute mail id and roll number.
2. The use of institute IDs for authenticating user profiles implies a commitment to maintaining the platform's standards by preventing the posting of inappropriate or unethical content.

Software Dependencies:

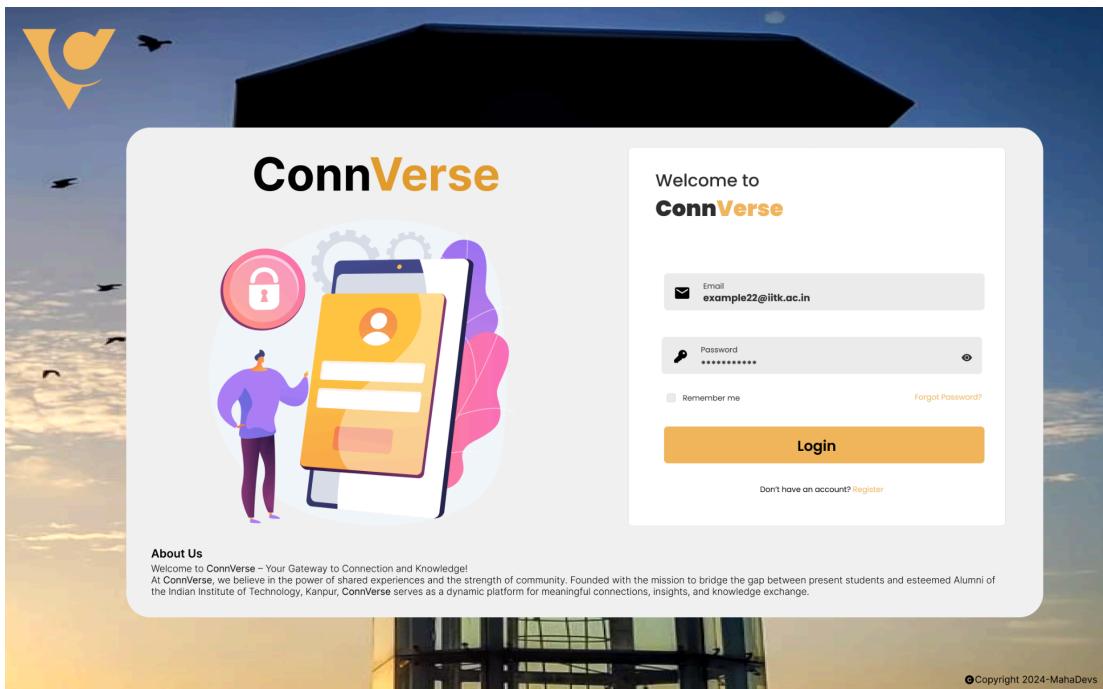
1. We depend on Material/Chakra UI for styling, ensuring a cohesive and visually appealing user interface.
2. The project relies on various JavaScript libraries to enhance functionality and streamline development.
3. The utilization of Redis Repository, WebSocket Server, and HTTP Server is necessary for the implementation of direct messages.
4. ReactJS serves as a critical component for the front end, providing the necessary tools for creating an interactive and dynamic user interface.

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

1. Login/ Sign Up Page



ConnVerse

GREETINGS ALUM !

Welcome to ConnVerse Community

Name

Email

Batch

Submit

Already have an account? [Log in](#)



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1.1 Login:

- The login page will prompt the user to enter their registered email and password.
- Upon successful login, users will be directed to the home page.

1.2 SignUp:

- New users can sign up by providing their email address.
- After entering the email, OTP will be sent to the provided email.
- Users will be prompted to enter the OTP to verify their email.
- Once verified, users will set a new password and confirm it for account creation.
- After account creation, the User will be directed to the home page and an alert prompt for adding profile details will be shown.
- There is a separate page for registration of alum, alum can enter their details and after manual verification alum can log in as a user.

2. Home Page

The screenshot shows the ConnVerse application's home page. At the top is a navigation bar with tabs: HOME (highlighted in orange), MEMBERS, CREATE, and CHAT. To the right of the tabs is a user profile icon labeled "User". Below the navigation bar is a search bar with the placeholder "What do you want to see?".

The main content area displays three blog entries in cards:

- TITLE OF THE BLOG** by User 11 (posted 13 days ago). The post content reads: "As the apex scholar of our esteemed institution, I effortlessly reign over academia, leaving mere mortals awestruck." To the right of the text is a photograph of a modern university building at night.
- Mastering the Art of Leadership** by User 23 (posted 17 hrs ago). The post content reads: "A leader not by imposition, but by example, fostering an environment where collective success was celebrated as much as individual achievement." To the right of the text is an illustration of four people pushing a large paper airplane.
- Revelations and Reflections at the Zenith** by User 51 (posted 19 hrs ago). The post content reads: "The delicate balance between academic pursuits and personal growth is an art I mastered, and in this entry, I want to focus on this in..". To the right of the text is a book cover titled "REVELATION, PERCEPTION AND ITS INTERPRETATION Conclusion" by Isaiah-Phillips Akintola.

2.1 Navigation Bar:

- The home page will feature a navigation bar containing links to key sections such as Chat, User Profile, Blog, Members and also a search bar.
- Users can easily navigate between different sections by clicking on the respective links.
- A search bar will allow users to search for specific blogs within the platform.

2.2 Main Content Area:

- The main content area will include a dynamic feed that displays relevant content based on the user's preferences.
- The feed will consist of the blogs created by other users.

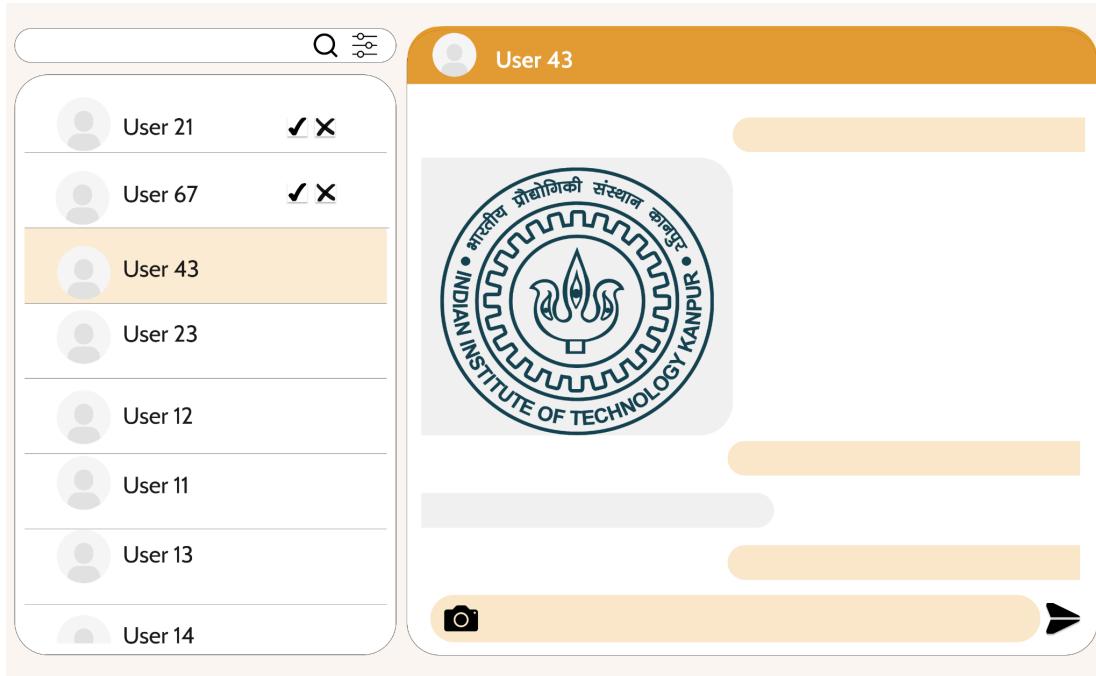
3. User Profile

The screenshot shows a user profile interface. At the top, there is a navigation bar with tabs: HOME, MEMBERS, CREATE, and CHAT. To the right of the tabs is a user icon labeled "User". Below the navigation bar, on the left, is a circular profile picture of a man with dark hair and a beard, wearing a blue shirt and a dark jacket. To the right of the profile picture is a large image of a modern, multi-story brick building with large windows. Below the profile picture and the building image is a bio section with the text: "Sophomore at this esteemed institution, I strive for knowledge and with this hunger and passion to leverage my knowledge to solve complex problems of the society is my duty". Underneath this bio is the user's name: "User Name BT CSE'26". To the left of the bio is a "SKILLS" section containing three items: "Software Development" (MERN Stack, GoLang, ReactJS), "Data Structures & Algorithms" (Competitive Rating - 2300), and "XYZ" (ABC - XYZ). To the right of the bio is a "TOP POSTS" section featuring two posts: "Night Life at IITK" (Non-Academic) and "Quantum Mechanical Experience" (Insights, Physics). Below these sections is a "View More" button. At the bottom of the profile page is a "CREDENTIALS & PROJECTS" section containing two items: "ConnVerse - Connect and Converse - under Prof Indranil Saha" (with a profile icon) and "Project XYZ - under ABC Club" (with a profile icon). The "Project XYZ" item includes a descriptive text about the project being offered in the summers by ABC Club IITK. Below these items is another "View More" button.

3.1 Profile Information

- The user profile page will showcase essential details, including a user photo, cover photo, name, batch in college, bio, roll number, skills, etc.
- If a user is visiting another user's profile, a message button will appear by which the user can chat with another user.
- Users can edit and update their profile information as needed by a "Edit Profile" button. By clicking on the button, all details will become editable. This button will appear only on your own profile page.

4. Chat:



4.1 The chat page:

- Prominent chat icon for easy access on the homepage.
- Systematic arrangement from newest to oldest for user convenience.
- Efficient search bar for locating specific profiles.
- If a recipient receives a message from an unknown user, the recipient may accept or decline the chat.

4.2 Inside a chat:

- Bottom text bar for composing messages.
- Click triggers QWERTY keyboard for easy input.
- Small arrow next to the text bar for seamless message sending.
- Comprehensive history for effortless interaction review.
- Circular profile picture and name at the top.

5. Blog:

HOME
MEMBERS
CREATE
CHAT
User 12

Your Activity

Search your blogs...
Q

Interview at DevRev

7 days ago

DevRev is a developer centric CRM platform. It was founded by Dheeraj Pandey (former Nutanix CEO) and Manoj Agarwal (former executive at Nutanix). DevRev raised \$50M in the seed round, which is probably one of the largest ever seed fundings in the history of Silicon Valley...

Tips for CP

12 days ago

What is CP?
It's a mind-sport where you are given a problem and have to develop optimised solutions for the given constraints with your coding skills. This helps us in building our logical and analytical...

Protesting at L18

15 days ago

Hi friends,
As you might know three people committed suicide at IIT Kanpur since last month which was very unfortunate, but something equally unfortunate is people not knowing the right channel to help...



User Name
BT CSE'26
Last Post: 7 Days Ago

Total Posts: **24**
Posts this Year: **12**
Contributions: **+123**

TITLE

TAGS

IMAGE

What do you want to share?

HOME MEMBERS BLOG CHAT

User 12

Mastering the Art of Leadership

user 67
13 days ago

If opportunity doesn't knock, build a door.
Milton Berle

▲ 12
▼ 1

As my journey progressed, a transformative phase unfolded—a metamorphosis from a solitary scholar to a leader in the academic arena. Recognizing the significance of collaboration, I ventured into the realm of leadership, orchestrating a harmonious synergy among my peers. Leadership, to me, is not about authority but about inspiration. In this chapter of my narrative, the emphasis is on the communal spirit that permeated our academic endeavors.

Through the art of leadership, I discovered the profound impact of mentorship and collaboration, realizing that the journey to the top is more meaningful when shared. The echoes of shared victories resounded through the academic corridors, creating a legacy that transcends individual triumphs.

Comments

Comment as User 12

User 12
CFBR

User 13
Very Insightful - loved it!!

User 31
Must read for future batches!!

User 67
Means a lot.

User 12
Leadership, a profound journey of depth and insights. Cheers to those navigating with grace. Your ability to inspire and adapt shapes the path forward. 🌟 #Leadership #Insights

- Users will have a create page by which they can see their recent activities.
- There will also be a compose box for users to create a blog.
- Each blog will have a page with the blog's title, author and content.
- Users can upvote or downvote a blog and also comment on the blog.

6. About Us Page:

The screenshot shows the ConnVerse platform's "About Us" section. At the top right are "Sign in" and "Sign up" buttons. Below them is a large orange header "Hi, Welcome to **CONNVERSE**". A subtext reads: "At ConnVerse we understand the importance of fostering connections within the IITK community." To the left is a large blue decorative graphic of overlapping curved lines. Below the header are five circular icons with text labels: "Seamless Networking" (two people icon), "Direct Messaging" (envelope icon), "Personalized Profiles" (person icon), "Limitless Possibilities" (lightbulb icon), and "Alumni Experience" (people icon). At the bottom are social media links for GitHub, Instagram, LinkedIn, and Facebook. An orange box contains the "About Us" heading and a bulleted list of platform details.

About Us

- Welcome to **ConnVerse** – Your Gateway to Connection and Knowledge!
- At **ConnVerse**, we believe in the power of shared experiences and the strength of community. Founded with the mission to bridge the gap between present students and esteemed alumni of the Indian Institute of Technology, Kanpur, **ConnVerse** serves as a dynamic platform for meaningful connections, insights, and knowledge exchange.

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- In the footer of the User Profile Page, there will be a designated tab labeled "About Us." This section will encompass detailed information about the creators of the platform, including their names, LinkedIn IDs, Converse IDs, and other pertinent details.

3.1.1 Hardware Interfaces

There are no hardware interfaces involved in the project. No additional hardware is required.

3.1.2 Software Interfaces

There are no software interfaces involved in the project. No additional software is required.

3.2 Functional Requirements

3.2.1 User Registration

All users must register on the system using their email ID provided by the institute and an OTP sent to their email ID. Users must create a password for further log in.

3.2.2 Changing Password for Log In

If a user forgets his/her password for logging in, the user will be able to reset the login password via OTP sent to the registered email id.

3.2.3 Manual Registration for Alumni

If an alumnus wants to register, he/she will be able to send an email regarding it to the maintainer of the application. After manual verification, alumni will be able to register him/herself and use it.

3.2.4 Editing user's own personal details

All users will be able to edit their details like profile photo, banner image, About section, Skills, etc. However, the roll number, name and batch will be linked with the email id and can't be changed.

3.2.5 Chat with other users

Users will be able to chat with other users. On the first sent message, the user will have the option to accept or not accept the chat. The conversation will only take place after accepting the chat. Messages can contain images or text.

3.2.6 Managing Chats

Users will have options to block and report chat if they find some chat spam or inappropriate. User will also be able to unblock a blocked user.

3.2.7 Composing Blogs

Users will be able to compose a blog. A blog can contain a Title, Author name, body text, images and relevant tags according to the content of the blog. Users can publish the blog immediately or can save a draft.

3.2.8 Edit Published Blogs

Users will be able to make changes to already published blogs by themself. Users will not be able to make changes to another user's blog.

3.2.9 Comment, Upvote or Downvote in Blogs

Users will be able to comment on a blog. Users will also be able to upvote/ downvote a blog.

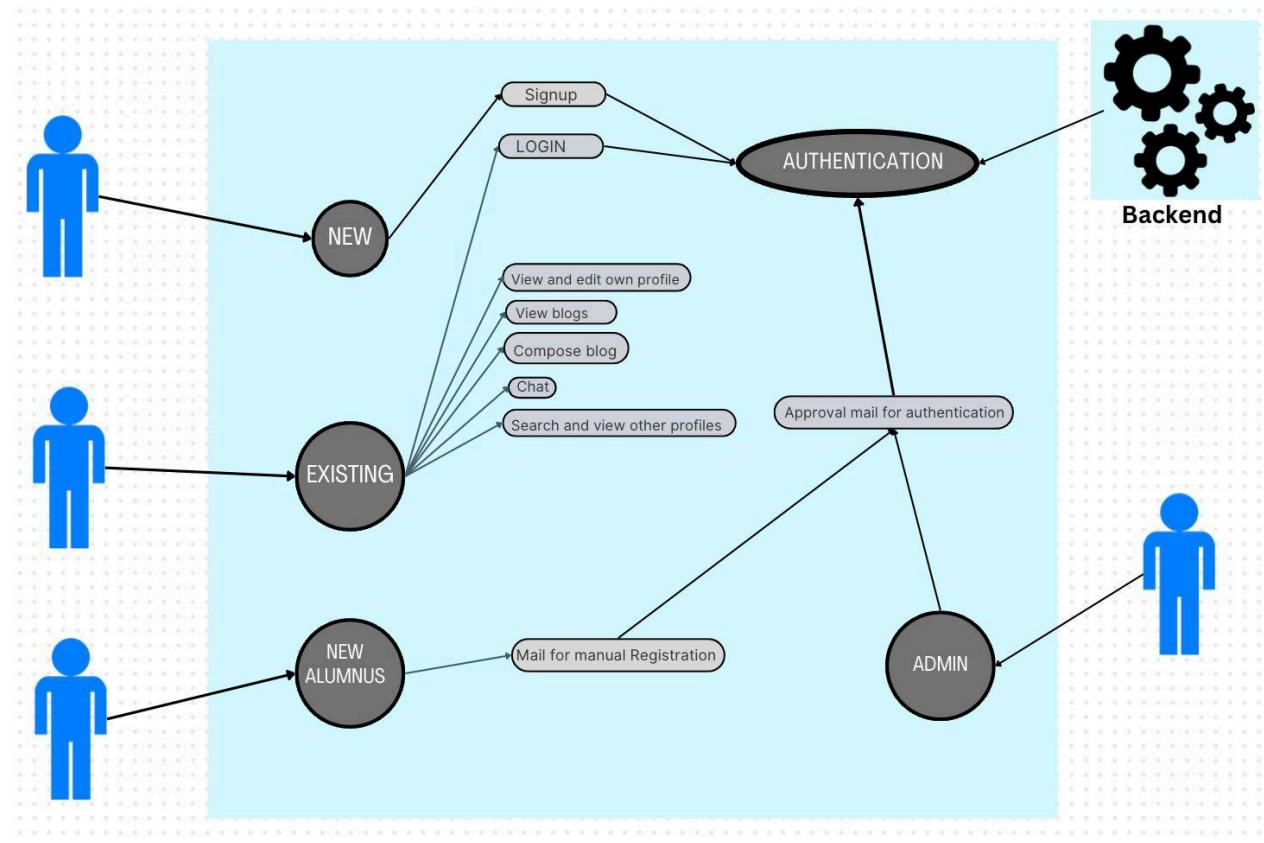
3.2.10 Searching Blogs

Users will be able to search blogs by the name of the blog. Users will also be able to search blogs of a particular niche by applying different filters provided.

3.2.11 Searching Users

Similar to searching blogs, Users will be able to search other user by the name of the user or by applying filter

3.3 Use Case Model



3.3.1 User Registration #1

Purpose	New User Registration for students
Requirements Traceability	Name, IITK Email id of the new user, a password setup
Priority	High
Preconditions	None
Post conditions	The user profile will be available to pre-registered users. They can view the profile and message through our internal messaging system as well.
Actors	New User
Exceptions	Alumni
Includes	None
Notes/Issues	Alumni won't be able to register this way, or any student with other email ID

3.3.2 User Login #2

Purpose	Registered User Login
Requirements Traceability	Registered email id, password
Priority	High
Preconditions	User account should be pre-registered
Post conditions	The user profile will be available to pre-registered users. They can view the profile and message through our internal messaging system as well.
Actors	User, Maintainer
Exceptions	None
Includes	None
Notes/Issues	If the user forgets the password, OTP verification will be done by sending an OTP to the registered email ID and the user will set a new password and log in again

3.3.3 Viewing blogs #3

Purpose	Viewing blogs for Registered Users
Requirements Traceability	User ID, password
Priority	Medium
Preconditions	Registered user must be logged in
Post conditions	User may view blogs published by other users at homepage. Users may search the profile of any other registered user to view blogs published by them.
Actors	Registered Users
Exceptions	None
Includes	Viewing Others' Profiles
Notes/Issues	None

3.3.4 Creating blogs #4

Purpose	Creating blogs
Requirements Traceability	User ID, password
Priority	Medium
Preconditions	Registered user must be logged in
Post conditions	User may write a blog and insert pictures in it as well or publish a blog from the previously saved drafts. Users can publish or save the draft of the blog.
Actors	Registered Users
Exceptions	None
Includes	None
Notes/Issues	None

3.3.5 Viewing and editing user profile #5

Purpose	View and Edit user's own Profile to provide customizability
Requirements Traceability	User ID, password
Priority	Medium
Preconditions	Registered user must be logged in
Post conditions	User may write a blog and insert pictures in it as well or publish a blog from the previously saved drafts. Users can publish or save the draft of the blog.
Actors	Registered Users
Exceptions	None
Includes	None
Notes/Issues	None

3.3.6 Viewing other user's profile #6

Purpose	Viewing others' profiles
Requirements Traceability	Profile ID
Priority	Medium
Preconditions	None
Post conditions	None
Actors	Registered Users and alumni
Exceptions	Other user does not exist
Includes	None
Notes/Issues	None

3.3.7 Alumni Registration #7

Purpose	Send a mail to do manual registration of an alumni.
Requirements Traceability	None
Priority	High
Preconditions	None
Post conditions	Verification of the alumni must be conducted.
Actors	Alumni, Maintainer
Exceptions	Spam mail sent by someone
Includes	None
Notes/Issues	None

3.3.8 Approving Alumnus Registration #8

Purpose	To approve alumni's email for registration
Requirements Traceability	Email ID
Priority	Medium
Preconditions	Alumni must be verified by the maintainer
Post conditions	None
Actors	Maintainer
Exceptions	None
Includes	None
Notes/Issues	Manually adding approved email for alumni

4 Other Non-functional Requirements

4.1 Performance Requirements

- 4.1.1 **Robustness:** The system should be capable of handling a simultaneous connection of a large number of users (at least 5,000 users) even at peak times without significant degradation in performance. The server should be Robust to the very high number of API Calls in peak hours and must not go down. This affects the reliability and user experience of the application.
- 4.1.2 **Latency:** The system is required to exhibit a response within a second for any user action under standard operational conditions at least on the client side. The application must provide a clean, seamless and efficient user experience, especially during searches and message exchanges.
- 4.1.3 **Initial Loading Time:** Feed, user profiles and content should be provided by the server within 2 seconds of initiation in the events of a new session. The user must not be left staring at the loading screen for long, or else the user retention rate will dip.
- 4.1.4 **Scalability:** The software must be adaptive to the increasing user base and be ready to handle sudden large volume increases in API Queries. The software must be open to horizontal and vertical scaling - adaptive as well as manual.

4.2 Safety and Security Requirements

- 4.2.1 **User Data Protection:** The user data and personal records must be shielded from any kind of vulnerabilities in the software which might have accidentally crept in. The entire session the user spends on the application must not be able to be traced to the user's real identity except public activities. His private chats must not be accessible to third parties under any circumstances.
- 4.2.2 **User Authentication:** The user account on this application must be authenticated from IITK CC ID for students and must be manually verified for Alumni, so as to restrict the user base to the IITK setting which was the founding principle for this software. This not only solves the problem of impersonation but also restricts the content on the app to be relevant to the user.
- 4.2.3 **Accountability and user experience:** Every user is free to have and express his opinion freely to the community but he must also be entitled to his opinion. Any public activity that happens in the application like blog posts, comments etc must be accountable to the user. The platform's selling point is its formality in connecting people and the discussions they have. Any breach in this matter must be handled properly. The user experience should be shielded from spam, toxicity, negativity etc. These actions must be reportable and there must be a manual (moderators) as well as an automated method to curb them.

4.3 Software Quality Attributes

- 4.3.1 Usability:** The application's interface is designed to be user-friendly, ensuring an intuitive experience for first-time users. Users will find it easy to update their profiles, publish blogs, and connect with others through the chat feature.
- 4.3.2 Portability:** The application should be portable across different devices with consistent functionality and user experience. The software must be built on cross-platform frameworks and the GUI must be responsive to the port width.
- 4.3.3 Interoperability:** This application is designed to function smoothly alongside other applications on the device, avoiding any interruptions. When users are in the midst of composing a blog, they can save it as a draft, use other applications concurrently, and return to continue blogging seamlessly from the Recent screen or browser tabs. This design guarantees the application's seamless interoperability with different device functions.

5 Other Requirements

Appendix A – Data Dictionary

Appendix B - Group Log

Date	Summary of the Meeting
05 Jan' 24	Discussion on newly proposed ideas from different domains
07 Jan' 24	Expanding into deeper details of the ideas
08 Jan' 24	Discussion on feasibility of ideas and shortlisting of the best
09 Jan' 24	List of shortlisted ideas presented to and discussed with Sir. Confirmed "ConnVerse - Connect and Converse" as the project.
15 Jan' 24	More detailed discussion regarding the user requirements and system requirements
18 Jan' 24	Met with our project mentor TA Abhilash Chandra to discuss and share our idea
20 Jan' 24	Finalising on the timeline of the SRS. Division of tasks finalised.
21 Jan' 24 - 25 Jan' 24	Working on Requirement Documentation