

Software Requirements Specification

for

Social Media Platform

Prepared by Team Wac

Group 9

Syracuse University CSE 687

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1. Introduction

1.1. Purpose

This Software Requirements Specification (SRS) is intended to delineate software requirements for the customer’s gas pump system. This SRS is intended to provide guidance to the developers of the system to implement required functionality, as well as the test team to develop appropriate Verification and Validation (V&V) plans and procedures required to demonstrate to the customer that the system was built to this specification.

1.2. Scope

- 1. Secure document management with version control and revision tracking.
- 2. Document sharing with customizable permissions for collaborative work.
- 3. User profiles with privacy controls and customizable settings.
- 4. Collaboration tools for team communication and project coordination.
- 5. Transparent and data-driven document evaluation and feedback.

1.3. Definitions

BDD Block Definition DiagramSRS Software Requirements Specification UML Unified Modeling LanguageV&V Verification and Validation

1.4. References

Doe, J., Smith, A. (2020). Enhancing Knowledge Sharing in Organizations: A Digital Platform Approach. IEEE Transactions on Information Technology, 15(3), 123-135. DOI: 10.1109/IT.2020.123456

1.5. Overview

The paper titled "Enhancing Knowledge Sharing in Organizations: A Digital Platform Approach" by Doe and Smith (2020) published in IEEE Transactions on Information Technology presents a comprehensive study on leveraging digital platforms to improve knowledge sharing within organizations, highlighting the significance of technological solutions in fostering collaboration and innovation.

BDD	Block Definition Diagram
SRS	Software Requirement Specification
UML	Unified Modeling Language

2. Overall description

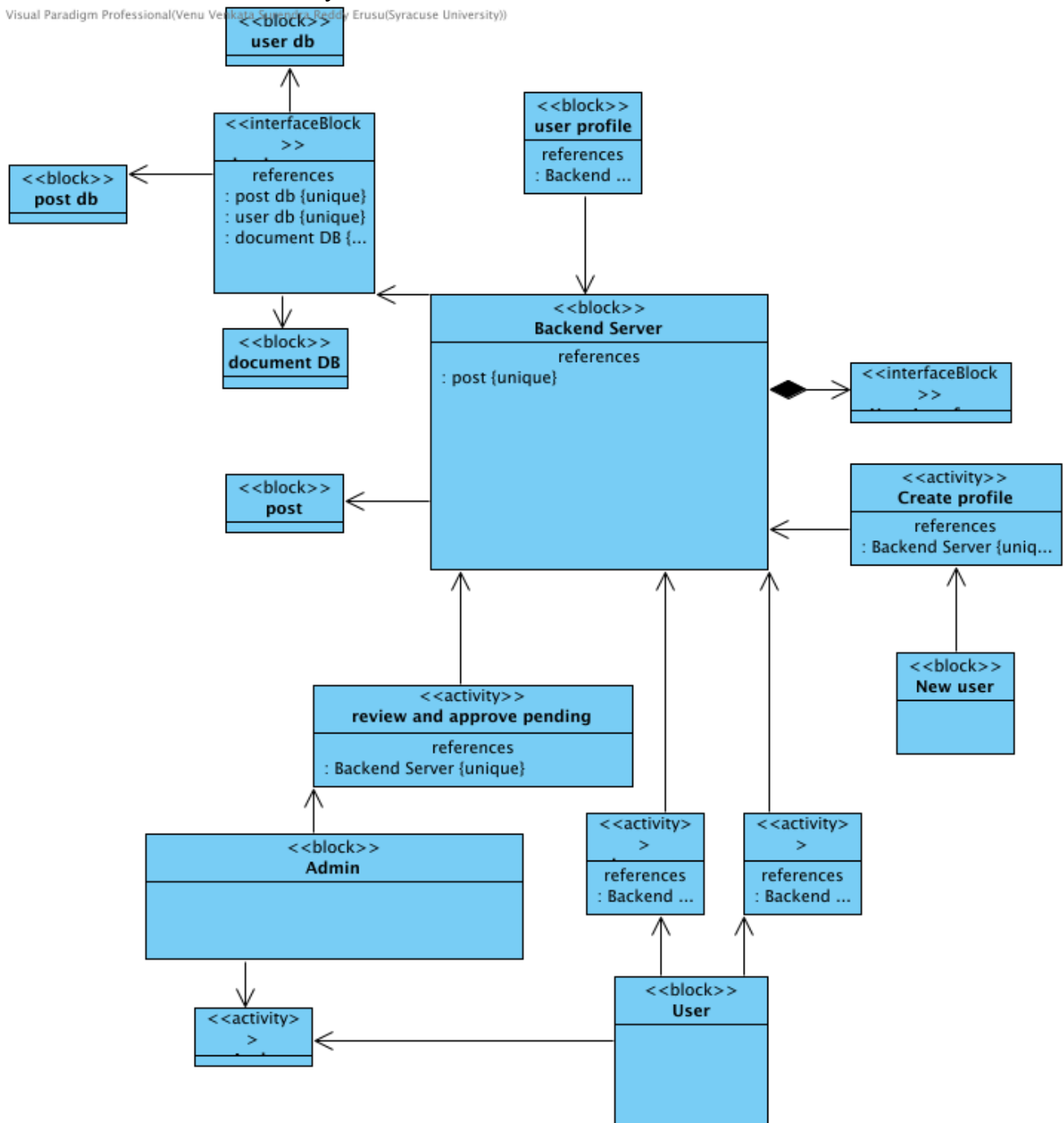
2.1. Product Perspective

Our project aims to simplify document access within a social media platform, fostering knowledge sharing among employees through a blend of document management and social interaction features. Employees can showcase expertise via personalized profile with key metrics like Views and Upvotes, contributing to organizational learning. The project's architecture adheres to OOP principles, emphasizing scalability and efficiency through sophisticated search and microservices. Overall, it represents a shift in knowledge management, empowering collaboration and innovation within the organization.

2.1.1. SocialMediaPlatform System Architecture

2.1.1.1. SocialMediaPlatform System Architecture

Visual Paradigm Professional(Venu Venkata Suresh Ch Reddy Erusut(Syracuse University))



2.1.1.2. Admin

A special user block with administrative privileges, responsible for managing the platform, such as reviewing and approving pending documents or posts.

2.1.1.3. Backend Server

The core server that handles requests and serves as the central hub for the application logic. It interacts with all the other components to provide the platform's functionality.

2.1.1.4. document DB

This is where documents are stored. In the context of your platform, documents could mean any valuable content shared by the employees, which might be categorized, tagged, and made searchable.

2.1.1.5. post

Represents an individual post entity within the system. It could include methods for creating, editing, or deleting a post.

2.1.1.6. post db

Similar to the User DB, this block probably denotes the database for storing posts. This might include content such as text, images, and links, with each post having a unique identifier.

2.1.1.7. user db

This block represents the database where user information is stored. It could include usernames, passwords, profile data, and other personal details. The uniqueness implies that each user has a unique entry in the database.

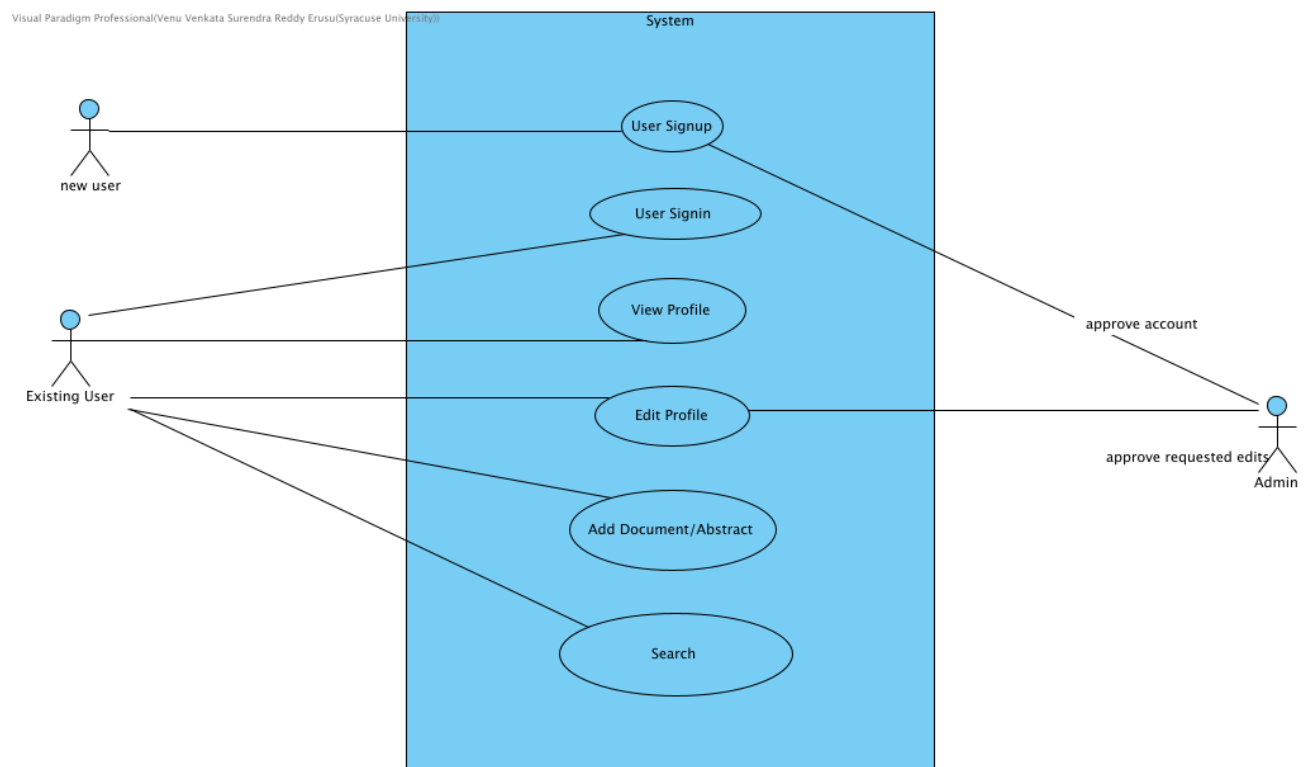
2.1.1.8. user profile

This component that deals with user profiles. It contain information about the user's expertise, posts, upvotes, downvotes, and tasks assigned to them.

2.2. Product Functions

The following use case diagram depicts the users of the system, and the intended way in which they will interact with the system.

2.2.1. Social Media Platform Use Cases



2.2.2. Admin

ID: AC05

An admin use case where the admin has the authority to approve new accounts. This might be part of a verification process to ensure user authenticity.

2.3. Use Case Descriptions



2.3.1. Existing User

ID: AC01

Employee with valid credentials

2.3.2. Add Document/Abstract

ID: UC07

This use case enables users to contribute to the platform by adding documents or abstracts. This could be for sharing knowledge, research, or any relevant content that the platform supports.

2.3.3. Edit Profile

ID: UC06

This functionality allows users to make changes to their profile information. Editing could involve updating personal details, changing passwords, or modifying display settings.

2.3.4. Search

ID: UC08

Search enables users to efficiently search through available documents and profiles, enhancing accessibility and retrieval of relevant information within the system.

2.3.5. User Signin

ID: UC02

To sign into the account to access and enter a specific user account or profile on a digital platform by providing the required credentials, such as a username or email address and a password. This process typically involves navigating to the login page of the platform or application, inputting the correct login information, and then verifying your identity to gain access to the account's features and content.

2.3.6. User Signup

ID: UC01

After selecting the "Sign Up" option, users are able to create a new account by entering their employee ID/Email and setting a password.

2.3.7. View Profile

ID: UC05

The "View Profile" option allows users to access and manage their personal information, preferences within the integrated document management and social interaction platform, enhancing knowledge sharing and simplifying access to documents.

2.3.8. Scenarios

2.3.8.1. Sunny Day Scenario

1. A visitor accesses the platform, completes the User Signup form with all required information correctly, and successfully creates a new account after email verification.

2. The new user, now logged in, navigates to the "Add Document/Abstract" section, uploads a document with all necessary details, and submits it for platform use.
3. The user utilizes the Search function to find documents of interest, efficiently filtering the results using platform tools, and finds the desired documents.
4. The user edits their profile, adding professional details and interests, and the changes are saved immediately without issues.
5. Throughout the interaction, all user actions are successfully completed without system errors, data is stored securely, and the user receives clear feedback on the successful execution of action

2.3.8.2. Rainy Day Scenario

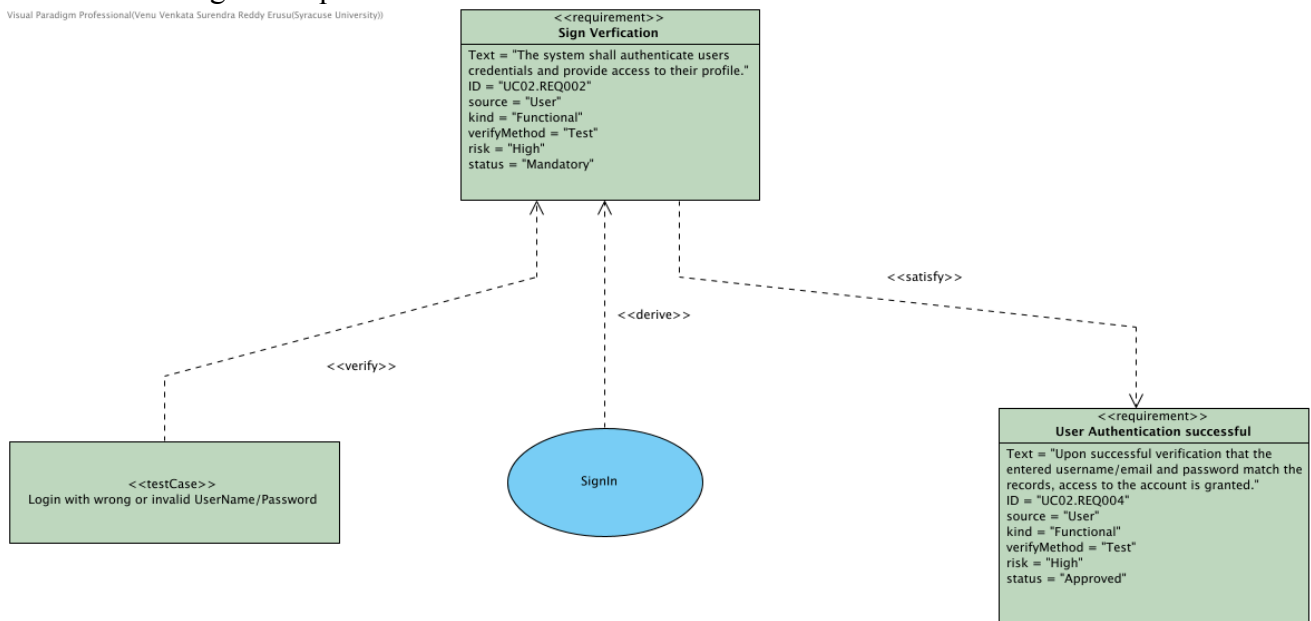
1. A visitor attempts to sign up but provides an email that's already in use the system alerts them to this, and they must use a different email to continue.
2. When using the Search function, the user encounters slow response times due to heavy server load they receive a notification about the delay and the option to try again.
3. The user attempts to edit their profile, but a server error occurs, preventing the changes from being saved; they receive a prompt to retry the edit process.
4. Throughout their session, any persistent issues are logged, and alerts are sent to the admin, while the user is provided with suggestions to resolve or work around immediate problems

2.3.9. Requirements

2.3.10. Reference Diagrams

2.3.10.1. User Signin Requirement

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2.3.10.2. Login with wrong or invalid UserName/Password

Test Case validates Login with wrong or invalid UserName/Password

2.3.10.3. Sign Verification

ID: UC02.REQ002

The system shall authenticate users credentials and provide access to their profile.

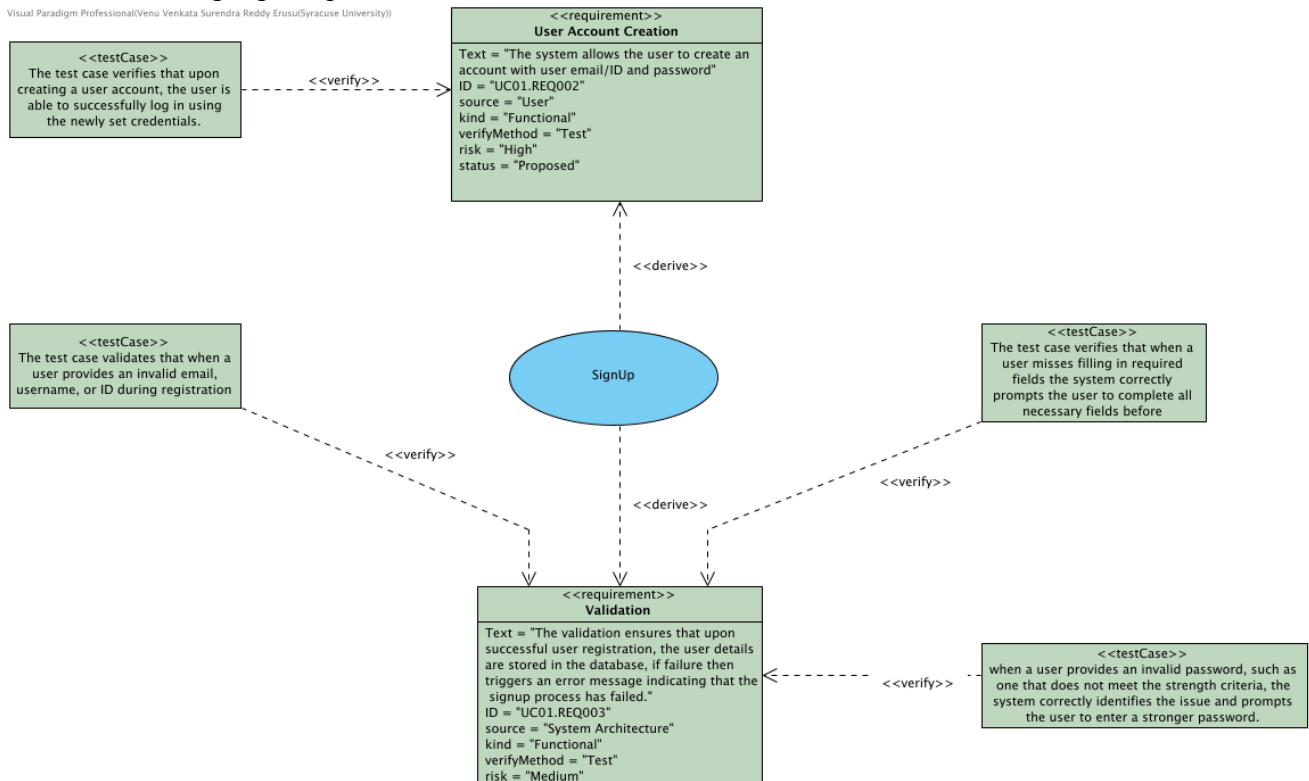
2.3.10.4. User Authentication successful

ID: UC02.REQ004

Upon successful verification that the entered username/email and password match the records, access to the account is granted.

2.3.10.5. User Signup Requirement

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2.3.10.6. The test case validates that when a user provides an invalid email, username, or ID during registration

The test case validates that when a user provides an invalid email, username, or ID during registration

2.3.10.7. The test case verifies that upon creating a user account, the user is able to successfully log in using the newly set credentials.

The test case verifies that upon creating a user account, the user is able to successfully log in using the newly set credentials.

2.3.10.8. The test case verifies that when a user misses filling in required fields the system correctly prompts the user to complete all necessary fields before proceeding.

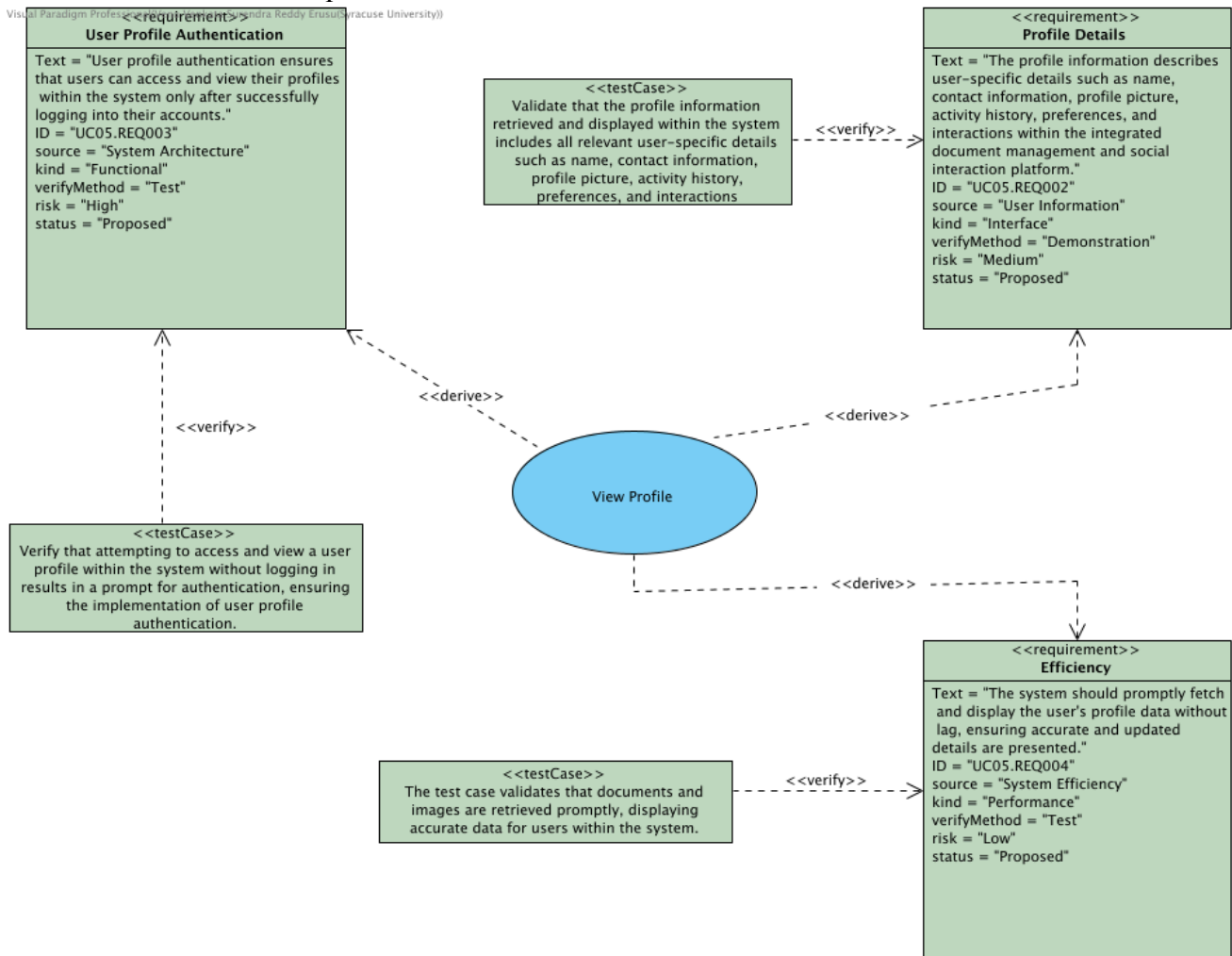
The test case verifies that when a user misses filling in required fields the system correctly prompts the user to complete all necessary fields before proceeding.

2.3.10.9. User Account Creation

ID: UC01.REQ002

The system allows the user to create an account with user email/ID and password

2.3.10.10. View Profile Requirement



2.3.10.11. Validation

ID: UC01.REQ003

The validation ensures that upon successful user registration, the user details are stored in the database, if failure then triggers an error message indicating that the signup process has failed.

2.3.10.12. when a user provides an invalid password, such as one that does not meet the strength criteria, the system correctly identifies the issue and prompts the user to enter a stronger password. when a user provides an invalid password, such as one that does not meet the strength criteria, the system correctly identifies the issue and prompts the user to enter a stronger password.

2.3.10.13. Verify that attempting to access and view a user profile within the system without logging in results in a prompt for authentication, ensuring the implementation of user profile authentication.

Verify that attempting to access and view a user profile within the system without logging in results in a prompt for authentication, ensuring the implementation of user profile authentication.

2.3.10.14. Efficiency


ID: UC05.REQ004

The system should promptly fetch and display the user's profile data without lag, ensuring accurate and updated details are presented.

2.3.10.15. Profile Details

ID: UC05.REQ002

The profile information describes user-specific details such as name, contact information, profile picture, activity history, preferences, and interactions within the integrated document management and social interaction platform.


 2.3.10.16. The test case validates that documents and images are retrieved promptly, displaying accurate data for users within the system.

The test case validates that documents and images are retrieved promptly, displaying accurate data for users within the system.

 2.3.10.17. User Profile Authentication

ID: UC05.REQ003

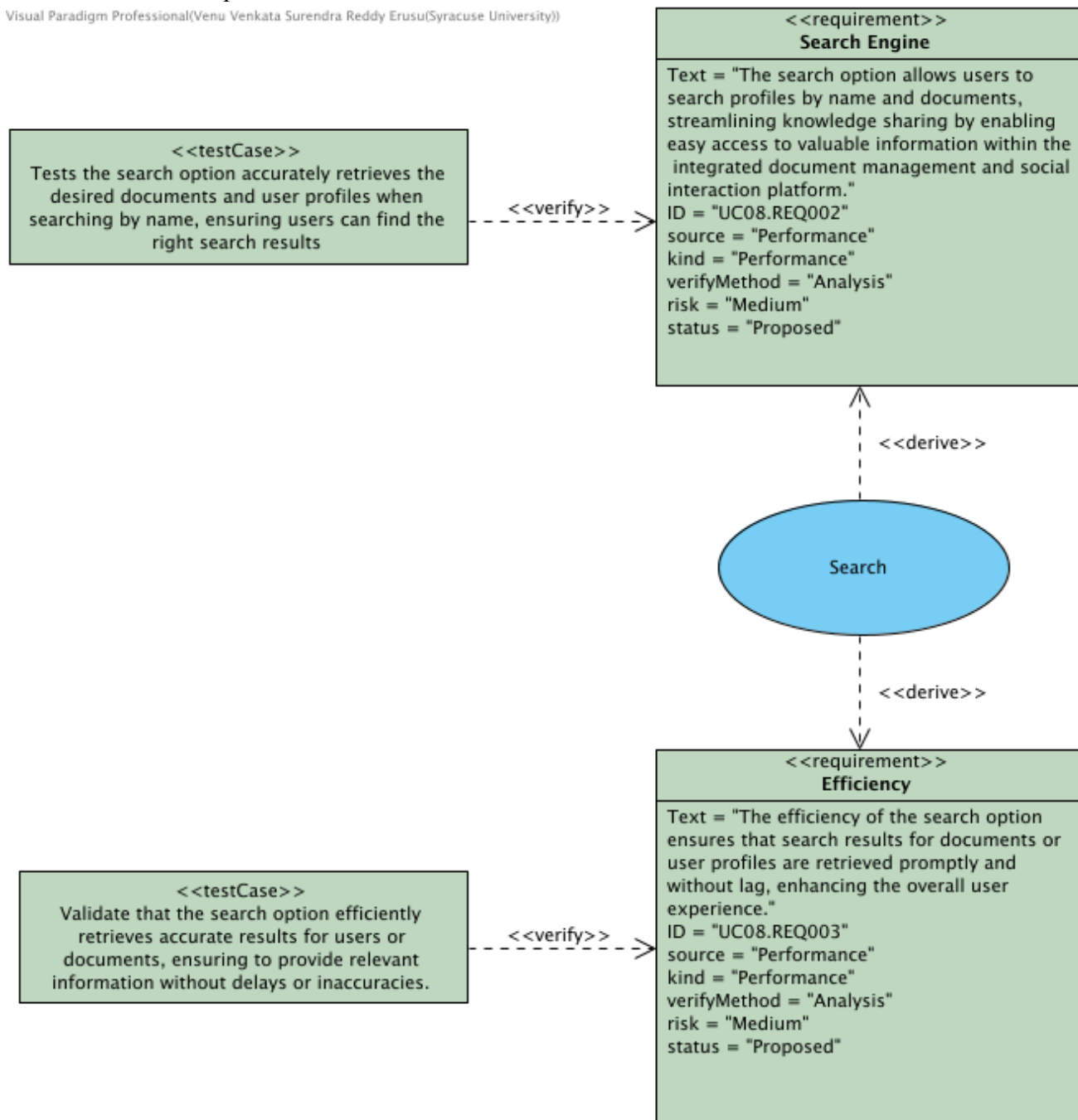
User profile authentication ensures that users can access and view their profiles within the system only after successfully logging into their accounts.

 2.3.10.18. Validate that the profile information retrieved and displayed within the system includes all relevant user-specific details such as name, contact information, profile picture, activity history, preferences, and interactions

Validate that the profile information retrieved and displayed within the system includes all relevant user-specific details such as name, contact information, profile picture, activity history, preferences, and interactions

2.3.10.19. Search Requirement

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2.3.10.20. Efficiency

ID: UC08.REQ003

The efficiency of the search option ensures that search results for documents or user profiles are retrieved promptly and without lag, enhancing the overall user experience.


2.3.10.21. Tests the search option accurately retrieves the desired documents and user profiles when searching by name, ensuring users can find the right search results

Tests the search option accurately retrieves the desired documents and user profiles when searching by name, ensuring users can find the right search results

2.3.10.22. Search Engine

ID: UC08.REQ002

The search option allows users to search profiles by name and documents, streamlining knowledge sharing by enabling easy access to valuable information within the integrated document management and social interaction platform.

 2.3.10.23. Validate that the search option efficiently retrieves accurate results for users or documents, ensuring to provide relevant information without delays or inaccuracies.
Validate that the search option efficiently retrieves accurate results for users or documents, ensuring to provide relevant information without delays or inaccuracies.

2.3.11. Relationships

2.3.11.1. Sign Verification

ID: UC02.REQ002

The system shall authenticate users credentials and provide access to their profile.

2.3.11.1.1. Stereotypes

<<requirement>>








2.3.11.1.2. Tagged Values

Name	Type	Value
ID	Text	UC02.REQ002
kind	Ad Hoc Enumeration	Functional
risk	Ad Hoc Enumeration	High
source	Text	User
status	Ad Hoc Enumeration	Mandatory
Text	HTML	The system shall authenticate users credentials and provide access to their profile.
verifyMethod	Ad Hoc Enumeration	Test

2.3.11.1.3. Properties

Source	User
Kind	Functional
Verify method	Test
Risk	High
Status	Mandatory

2.3.11.1.4. Relationships

Relationship	From	To
 unnamed	 Sign Verification	 User Authentication successful
 unnamed	 SignIn	 Sign Verification
 unnamed	 Login with wrong or invalid UserName/Password	 Sign Verification

2.3.11.2. User Authentication successful

ID: UC02.REQ004

Upon successful verification that the entered username/email and password match the records, access to the account is granted.

2.3.11.2.1. Stereotypes

<<requirement>>

2.3.11.2.2. Tagged Values

Name	Type	Value
ID	Text	UC02.REQ004
kind	Ad Hoc Enumeration	Functional


Name	Type	Value
risk	Ad Hoc Enumeration	High
source	Text	User
status	Ad Hoc Enumeration	Approved
Text	HTML	Upon successful verification that the entered username/email and password match the records, access to the account is granted.
verifyMethod	Ad Hoc Enumeration	Test

2.3.11.2.3. Properties

Source	User
Kind	Functional
Verify method	Test
Risk	High
Status	Approved

2.3.11.2.4. Relationships

Relationship	From	To
 unnamed	 Sign Verification	 User Authentication successful

 2.3.11.3. The test case verifies that when a user misses filling in required fields the system correctly prompts the user to complete all necessary fields before proceeding.

The test case verifies that when a user misses filling in required fields the system correctly prompts the user to complete all necessary fields before proceeding.

2.3.11.4. User Account Creation

ID: UC01.REQ002

The system allows the user to create an account with user email/ID and password

2.3.11.4.1. Stereotypes

<<requirement>>




2.3.11.4.2. Tagged Values




Name	Type	Value
ID	Text	UC01.REQ002
kind	Ad Hoc Enumeration	Functional
risk	Ad Hoc Enumeration	High
source	Text	User
status	Ad Hoc Enumeration	Proposed
Text	HTML	The system allows the user to create an account with user email/ID and password
verifyMethod	Ad Hoc Enumeration	Test

2.3.11.4.3. Properties

Source	User
Kind	Functional
Verify method	Test
Risk	High
Status	Proposed

2.3.11.4.4. Relationships

Relationship	From	To
 unnamed	 The test case verifies that upon creating a user account, the user is able to successfully log in using the newly set credentials.	 User Account Creation

Relationship	From	To
 unnamed	 SignUp	 User Account Creation



2.3.11.5. Validation

ID: UC01.REQ003

The validation ensures that upon successful user registration, the user details are stored in the database, if failure then triggers an error message indicating that the signup process has failed.

2.3.11.5.1. Stereotypes

<<requirement>>













2.3.11.5.2. Tagged Values

Name	Type	Value
ID	Text	UC01.REQ003
kind	Ad Hoc Enumeration	Functional
risk	Ad Hoc Enumeration	Medium
source	Text	System Architecture
status	Ad Hoc Enumeration	Proposed
Text	HTML	The validation ensures that upon successful user registration, the user details are stored in the database, if failure then triggers an error message indicating that the signup process has failed.
verifyMethod	Ad Hoc Enumeration	Test

2.3.11.5.3. Properties

Source	System Architecture
Kind	Functional
Verify method	Test
Risk	Medium
Status	Proposed

2.3.11.5.4. Relationships

Relationship	From	To
 unnamed	 SignUp	 Validation
 unnamed	 when a user provides an invalid password, such as one that does not meet the strength criteria, the system correctly identifies the issue and prompts the user to enter a stronger password.	 Validation
 unnamed	 The test case verifies that when a user misses filling in required fields the system correctly prompts the user to complete all necessary fields before proceeding.	 Validation
 unnamed	 The test case validates that when a user provides an invalid email, username, or ID during registration	 Validation



2.3.11.6. Search Engine

ID: UC08.REQ002

The search option allows users to search profiles by name and documents, streamlining knowledge sharing by enabling easy access to valuable information within the integrated document management and social interaction platform.

2.3.11.6.1. Stereotypes

<<requirement>>







2.3.11.6.2. Tagged Values

Name	Type	Value
ID	Text	UC08.REQ002
kind	Ad Hoc Enumeration	Performance
risk	Ad Hoc Enumeration	Medium
source	Text	Performance
status	Ad Hoc Enumeration	Proposed
Text	HTML	The search option allows users to search profiles by name and documents, streamlining knowledge sharing by enabling easy access to valuable information within the integrated document management and social interaction platform.
verifyMethod	Ad Hoc Enumeration	Analysis

2.3.11.6.3. Properties

Source	Performance
Kind	Performance
Verify method	Analysis
Risk	Medium
Status	Proposed

2.3.11.6.4. Relationships

Relationship	From	To
 unnamed	 Search	 Search Engine
 unnamed	 Tests the search option accurately retrieves the desired documents and user profiles when searching by name, ensuring users can find the right search results	 Search Engine



2.3.11.7. Efficiency

ID: UC08.REQ003

The efficiency of the search option ensures that search results for documents or user profiles are retrieved promptly and without lag, enhancing the overall user experience.

2.3.11.7.1. Stereotypes

<<requirement>>

2.3.11.7.2. Tagged Values







Name	Type	Value
ID	Text	UC08.REQ003
kind	Ad Hoc Enumeration	Performance
risk	Ad Hoc Enumeration	Medium
source	Text	Performance
status	Ad Hoc Enumeration	Proposed
Text	HTML	The efficiency of the search option ensures that search results for documents or user profiles are retrieved promptly and without lag, enhancing the overall user experience.

Name	Type	Value
verifyMethod	Ad Hoc Enumeration	Analysis

2.3.11.7.3. Properties

Source	Performance
Kind	Performance
Verify method	Analysis
Risk	Medium
Status	Proposed

2.3.11.7.4. Relationships

Relationship	From	To
 unnamed	 Search	 Efficiency
 unnamed	 Validate that the search option efficiently retrieves accurate results for users or documents, ensuring to provide relevant information without delays or inaccuracies.	 Efficiency

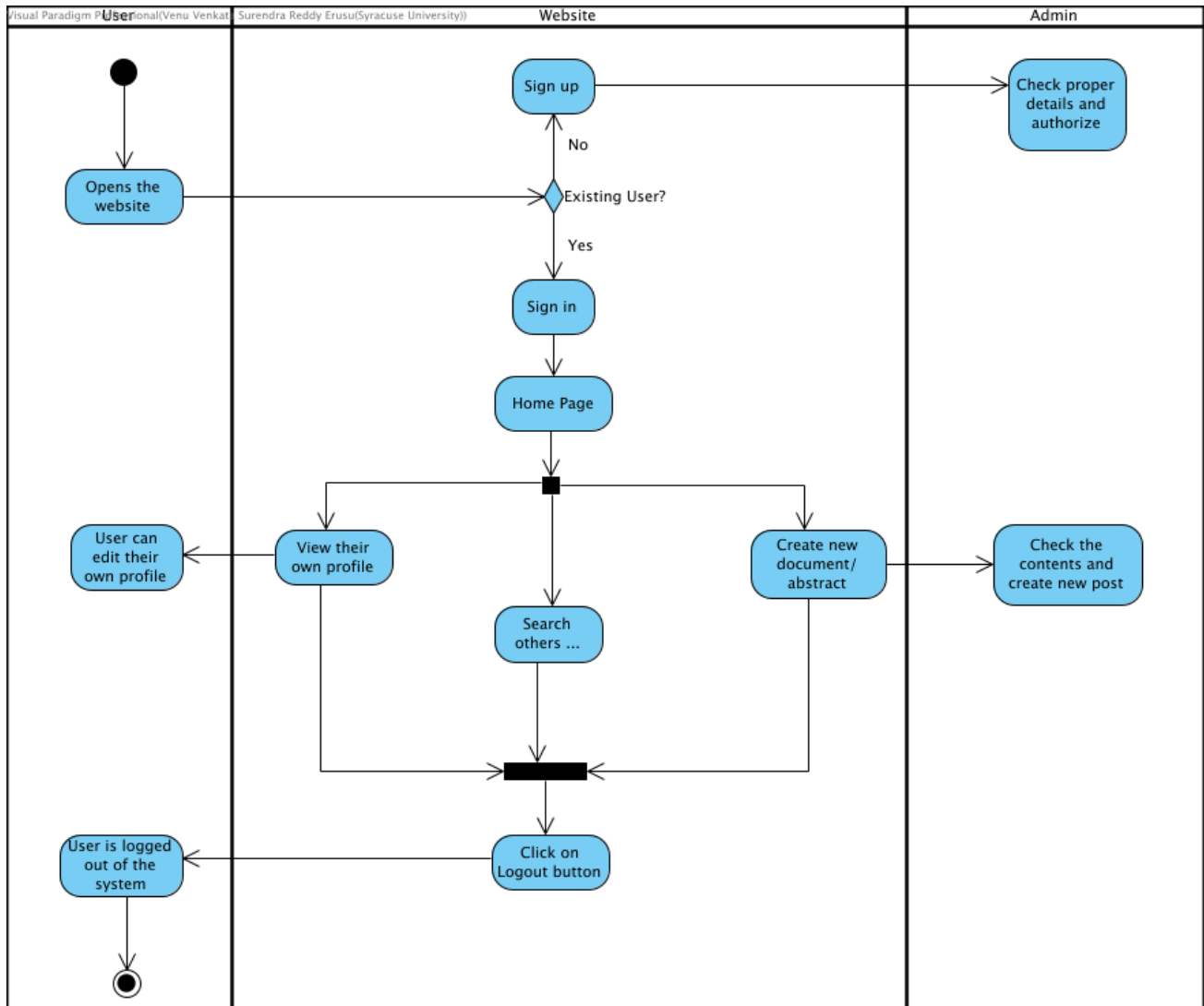
3. Specific Requirements

3.1. Overview

This social media platform revolutionizes internal knowledge sharing by offering employees a streamlined system for managing and disseminating documents, facilitating collaboration and innovation within the organization. It integrates document management with social engagement, allowing users to create profiles, share insights, and utilize advanced search capabilities for an efficient and interactive experience.

3.1.1. Analysis Model Activity Diagram

3.1.1.1. Swimlane



3.1.1.2. Check the contents and create new post

The admin verifies that all the things are proper before approving the post.

3.1.1.3. Check proper details and authorize

The admin checks if the user who is trying to create the account is an employee of the company or not. If the user is an employee, it admin gives the authorization to create the account, otherwise the account won't be created and an email will be sent to them in either case.

3.1.1.4. Click on Logout button

If the user wants to logout they can click on the logout button. There will a question asked "Do you want to logout?" if yes is clicked, user is logged out of the system and if no is clicked, the user stays on the same page.

3.1.1.5. Create new document/ abstract

The user can add a new post(document/ abstract) here. They have to enter necessary details to create a new post.

3.1.1.6. Existing User?

There are two options for the user: to login with correct credentials or create a new account.

3.1.1.7. Home Page

Dashboard of the website is displayed which shows many options to user like search people, search post, view their own account, edit their account, add a new post.

3.1.1.8. Opens the website

The user clicks on the URL of the CORPCONNECT website and the Login page is displayed.

3.1.1.9. Search others profile

The user can search other people and also they can search keywords and can see related post to that keyword.

3.1.1.10. Sign in

If the user does have a account they can login to their account over here with correct credentials. They have to enter email id and the password of their account to login.

3.1.1.11. Sign up

If the user doesn't have a account they can create a new account over here. They have to enter their Name, Email Id and Password to create an account.

3.1.1.12. User is logged out of the system

When the user confirms that it wants to logout, a page is displayed "You are logged out of the system".

3.1.1.13. User can edit their own profile

The user can edit their profile and change the information which is visible to everyone. They can also delete or edit any post they have posted earlier.

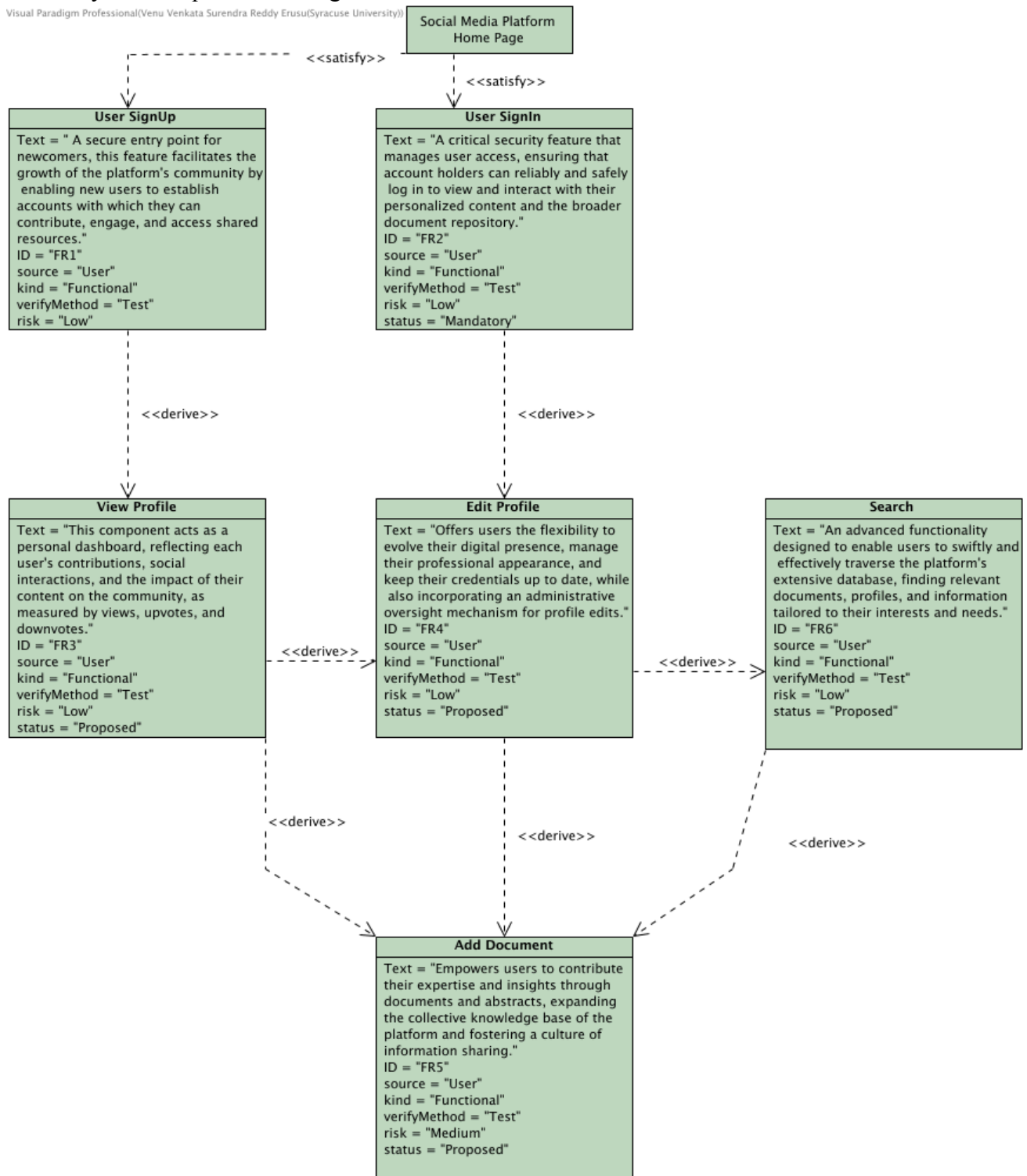
3.1.1.14. View their own profile

The user can check their own profile which displays all the post they have posted, create new post, their personal information like their role in the company and much more is displayed over here.

3.1.2. Social Media Platform System Requirements

3.1.2.1. System Requirement Diagram

Visual Paradigm Professional(Venu Venkata Surendra Reddy Erusu(Syracuse University))



User SignUp

ID: FR1

A secure entry point for newcomers, this feature facilitates the growth of the platform's community by enabling new users to establish accounts with which they can contribute, engage, and access shared resources.

User SignIn

ID: FR2

A critical security feature that manages user access, ensuring that account holders can reliably and safely log in to view and interact with their personalized content and the broader document repository.

View Profile

ID: FR3

This component acts as a personal dashboard, reflecting each user's contributions, social interactions, and the impact of their content on the community, as measured by views, upvotes, and downvotes.

Edit Profile

ID: FR4

Offers users the flexibility to evolve their digital presence, manage their professional appearance, and keep their credentials up to date, while also incorporating an administrative oversight mechanism for profile edits.

Search

ID: FR6

An advanced functionality designed to enable users to swiftly and effectively traverse the platform's extensive database, finding relevant documents, profiles, and information tailored to their interests and needs.

Social Media Platform Home Page

The primary interface that anchors the user experience, providing streamlined navigation to the platform's diverse features like document sharing, profile browsing, and personalized content curation.

Add Document

ID: FR5

Empowers users to contribute their expertise and insights through documents and abstracts, expanding the collective knowledge base of the platform and fostering a culture of information sharing.

3.2. Performance Requirement

3.2.1. Efficient Document RetrievalID: REQ-SMP001The system shall retrieve and display user documents within 2 seconds under typical operating conditions to ensure a swift user experience.

3.2.2. Profile Update LatencyID: REQ-SMP002Profile updates shall reflect on the user's profile in real-time, with a maximum delay of 1 second, to provide immediate feedback on changes.

3.3. Design Constraints

3.3.1. Secure Document StorageID: REQ-SMP003All documents uploaded to the platform shall be stored with AES-256 encryption, ensuring data confidentiality and protection against unauthorized access.

3.3.2. Compliance with Data Protection RegulationsID: REQ-SMP004The software shall adhere to GDPR and other relevant data protection and privacy regulations, ensuring compliance and safeguarding user data.

3.3.3. Interface ResponsivenessID: REQ-SMP005The platform's user interface shall be designed to adapt responsively to different devices and screen sizes, maintaining usability across desktop, tablet, and mobile devices.