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Take Note App

Software Requirement Specification (SRS)



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1. Introduction

This document is prepared to describe the “**Software Requirement Specifications**” for the ongoing project “**Take Note App**”. This document widely explains the overview of the system as well as explains the system scope of the project to identify the core features of the system. Other sections of the document provide the functional and non-functional, use-case scenarios, and specific requirements defined in the feature list. All standards of this document are written according to IEEE

1.1. Purpose

The core aim of this document is to explain all of the specifications needed for the project “**Take Note App**”. Although, it may require modifications to fulfill user expectations regarding the system. So, this document will help the development team to understand the users’ requirements for updating this system. But it may update or will change to meet the expectations

1.2. Problem Statement

In the fast-paced academic environment, students and educators are increasingly overwhelmed by the sheer volume of information they need to process, retain, and apply. Traditional note-taking methods, while still valuable, often fall short in helping users effectively organize their knowledge, track their learning progress, and recall information efficiently. The lack of integration between notes, study aids, and modern technologies such as AI and multimedia tools further complicates the learning experience, making it challenging for students to maximize their study time and retain essential concepts.

1.3. Proposed Solution

The Take Note App addresses these challenges by offering a comprehensive, AI-enhanced platform designed specifically for students. The app combines traditional note-taking features with advanced functionalities, including AI-powered summarization, multimedia integration, and adaptive learning tools. These features not only streamline the process of organizing and reviewing information but also personalize the learning experience, making it more efficient and effective. Additionally, the app offers robust collaboration tools, allowing users to work together in real-time, share materials, and track collective progress. By integrating these innovative

features, the Take Note App aims to go beyond the capabilities of existing solutions, providing a more holistic and user-centric approach to learning and knowledge management

1.4.Intended Stakeholders

- Product Owner
- Project manager (Lead development team)
- Business Analyst
- Developers
- QA Testers (Software testing team)
- End users (Visitors, Students)
- Super Admin

1.5.Scope

The Take Note App aims to provide a robust platform that not only facilitates traditional note-taking but also incorporates advanced features. The application will serve as a digital workspace where users can create, organize, and review their notes, flashcards, and study materials in a structured and efficient manner. The primary users of the Take Note App include visitor and students who require a dynamic and flexible tool to support their academic and educational endeavors.

1.6.Terms & Abbreviation

Sr. No	Terms	Description
1.	SRS	Software Requirements Specification
2.	IEEE	The Institute of Electrical and Electronics Engineers
3.	QA	“Quality Assurance” is the tester who will test the entire system to make sure of the quality of the system.
4.	SRS	Spaced Repetition System: A learning technique that involves reviewing material at increasing intervals

1.7. User Characteristics

Sr. No	User Classes	User Characteristics
1.	Visitor	The Visitor role is designed for users who are exploring the Take Note App without creating an account. Visitors can browse public content, learn about the app's features, and explore limited functionalities to get a feel for the app before deciding to register.
2.	Student	The Student role is the primary user role in the Take Note App. Students can create and manage their notes, utilize advanced AI features, and share their notes with other users. This role is designed to enhance the learning experience through personalized study tools and collaborative options.
3.	Super Admin	The Super Admin role has the highest level of access within the Take Note App. Super Admins are responsible for managing the platform, including user accounts, content moderation, and system-wide settings. This role ensures that the app functions smoothly and adheres to security and privacy standards.

2. Overall Description

2.1. System Perspective

The Take Note App is designed as a cloud-based, cross-platform application that supports seamless access and synchronization across web, mobile, and desktop devices. The system is built on a scalable architecture, utilizing modern technologies. It integrates with third-party tools through APIs to enhance functionality and ensure a cohesive user experience. The system prioritizes data privacy and security, employing end-to-end encryption and compliance with

industry standards. Additionally, it is engineered to support both individual users and collaborative groups, facilitating a versatile learning environment.

2.2. User-wise System Features

2.2.1. Visitor Features

- View Homepage
- View features
- View pricing
- Contact us
- View FAQs
- View reviews

2.2.2. Student Features

- Sign Up (Google, Apple, Form)
- Email Verification
- Login
- Reset Password
- Manage Profile
 - Upload Image
 - Edit Personal Information
 - Change Password
 - Set Language
- Manage Dashboard
 - View All Notes
 - View Flashcards
 - View Study Progress
 - Filter
 - Sort
 - Search Notes
- Manage Notes

- Create Notes (Text, Visual)
 - Using templates
 - Custom notes
- View Notes
 - Summarize Text using AI
 - Translate Text using AI
 - Generate Flashcard using AI
 - List key points using AI
 - Rephrase using AI
 - Explain Sentence using AI
- Filter Notes
- Sort Notes
- Organize Notes (Tags, Folder, Subfolder)
- Edit Notes
- Embed Content (Images, videos, audio and links)
 - Annotate Images and documents
 - Extract Text using AI
 - Generate Flashcards using AI
- Delete Notes
- Import Document
- Export Document (Text, Markdown, HTML)
- Manage Flashcards
 - Create Flashcards
 - View Flashcards
 - Filter
 - Sort
 - Delete
 - Organize Flashcards (group by subject, topic, tags)
 - Flashcard Integration with Notes

- Import Flashcards
 - Export Flashcards
- Generate Quiz using notes and flashcards
- Explore Documents
- Collaboration and Sharing
 - Share documents with other users
 - View Shared Documents
 - Set Permissions (view-only, edit, comment) for shared notes
 - Create virtual study room
 - Advanced Features
 - Real-time co-editing
 - Comment Threads
- Manage Goals
 - Set Study Goal
 - Set Exam Schedule
 - Exam Date
 - Study Plan
 - Track task progress
 - Receive reminders for upcoming exam
- Progress Tracking and Analytics
 - View detailed analytics of study progress
 - Track time spent (notes, flashcards, tasks)
 - Earn badges for reaching milestones
 - Generate reports
 - Compare performance
- General Settings
 - Theme and Appearance
 - Notification Settings
 - Earn Credits (Referral Program)

- Account Settings
 - Update Profile Information
 - Manage Linked Accounts (Google, Facebook)
- Manage Subscription
 - Upgrade/ Downgrade Plan
 - Make Payment
- Get Help
 - Chat with Support
 - View FAQs
- Add Review
- Log Out

2.2.3. Super Admin Features

- Login
- Reset Password
- Change Password
- Manage Dashboard
 - View System Statistics
 - View User Activities
 - Search
 - Filter & Sort Stats
- Manage Users
 - View Users
 - Search Users
 - Sort & Filter
 - Block/ Unblock user
 - Delete user
- Manage Shared Documents
 - Moderate User Generated Content
 - Delete Inappropriate Content

- Manage Notes
 - Add Templates
 - View Notes
 - Search Notes
 - Filter & Sort Notes
- Analytics and Reports
 - Generate Reports (User Activity, Financial, Content)
 - Export Reports
- Manage Subscription Plans
 - Create Subscription Plan
 - View Subscription Plans
 - Delete Subscription Plan
 - Modify Subscription Plan
 - Manage User Subscriptions
- Manage Payments
 - View Payment History
- Manage Support
 - Manage FAQ Content
- Manage Settings
 - Update System Settings
 - Manage Referral Program
 - Manage Theme and Appearance Settings
- Log Out

2.3. Assumptions & Dependencies

2.3.1. Assumptions

- **Stable Internet Connection:** It is assumed that users will have access to a stable and reliable internet connection for most functionalities of the Take Note App, including real-time collaboration, cloud storage, and AI-powered features.

- **Cross-Platform Compatibility:** The Take Note App is assumed to be compatible with major operating systems (Windows, macOS, Android, iOS) and browsers (Chrome, Firefox, Safari) without requiring significant modifications.
- **User Familiarity with Basic Technology:** It is assumed that users will have a basic understanding of digital note-taking, cloud storage, and general app navigation.
- **Availability of Third-Party Services:** The app's features that rely on third-party services (e.g., Google Sign-In, Apple Sign-In, cloud storage, AI tools) assume that these services will remain available and functional throughout the app's operation.
- **Regular System Maintenance:** It is assumed that the app will undergo regular maintenance and updates to ensure optimal performance, security, and feature enhancements.
- **Sufficient Hardware Resources:** Users are assumed to have devices with adequate hardware specifications (such as RAM, processing power, and storage) to run the app efficiently, especially for resource-intensive tasks like real-time collaboration and AI processing.

2.3.2. Dependencies

- **Third-Party APIs and Services:** The functionality of the Take Note App is dependent on various third-party APIs and services, such as:
 - **Authentication Services:** Google and Apple Sign-In APIs for user authentication.
 - **Cloud Storage Providers:** Services like Google Drive, Dropbox, or AWS S3 for document storage and retrieval.
 - **AI and Machine Learning APIs:** Integration with third-party AI services for features like text summarization, translation, and flashcard generation.

- **Hosting and Infrastructure:** The app's performance and availability are dependent on the hosting infrastructure, including cloud servers, databases, and content delivery networks (CDNs).
- **Development Tools and Frameworks:** The app relies on specific development frameworks (e.g., React, Node.js) and tools that must be maintained and updated to avoid security vulnerabilities and compatibility issues.
- **Compliance with Legal and Regulatory Standards:** The app must adhere to data protection regulations such as GDPR, CCPA, and any other relevant legal standards, which may require updates or changes in response to evolving legislation.
- **User Devices and Operating Systems:** The app's performance and features may be dependent on the latest updates and versions of user devices and operating systems.

3. System Requirements

3.1. Business Requirements

Br. No	Business Requirement
BR-01	The system must enable students to sign up and log in via email, Google, or Apple accounts, with support for multi-factor authentication (MFA).
BR-02	The system must enable the users to reset the password via email or phone number in case of a forgotten password.
BR-03	The system must allow students to create, view, edit, organize, and delete notes, including support for text and multimedia content (e.g., images, videos, audio).
BR-04	The system must enable students to organize notes using tags, folders, and subfolders, and utilize AI-powered tools for summarizing, translating, and generating content.

BR-05	The system must support various subscription plans, allowing users to choose between free and premium tiers with different levels of access to features.
BR-06	The system must provide an integrated referral program, where users can earn credits or discounts by referring new users to the platform.
BR-07	The system must include detailed billing and invoicing capabilities, providing users with clear, itemized bills and allowing them to manage their payment methods.
BR-08	The system must ensure compliance with global payment processing standards, supporting multiple currencies and payment methods (e.g., credit cards, PayPal).
BR-09	The system must allow students to generate quizzes from their notes and flashcards, with customizable quiz settings and detailed performance feedback.
BR-010	The system must support collaboration by allowing students to share notes and documents with other users, with customizable permissions (e.g., view-only, edit, comment).

3.2. Functional Requirement

3.2.1. Visitor

Sr. No	Functional Requirement	Priority
View Homepage		
1.	The system shall provide the facility to the visitor to access the homepage directly without requiring an account or login	High

2.	The system shall provide the facility to the visitor to view the navigation menu at the top of the homepage, offering links to essential sections such as Features, Pricing, Resources, and Sign Up	High
3.	The system shall provide the facility to the visitor to view the introduction to Take Note App that briefly describes the platform's key features and benefits	High
4.	The system shall provide the facility to the visitor to interact with a call-to-action button prominently displayed on the homepage, encouraging them to sign up, start a free trial, or learn more about the platform.	High
5.	The system shall provide the facility to the visitor to view user testimonials, or partner logos on the homepage.	High
View Features		
6.	The system shall provide the facility to the visitor to access the Features page from the homepage or navigation menu, allowing them to explore detailed descriptions of the platform's capabilities.	High
7.	The system shall provide the facility to the visitor to view a detailed list of features on the Features page, each accompanied by a brief description that highlights the core benefits and use cases.	High
View Pricing		
8.	The system shall provide the facility to the visitor to access the Pricing page from the homepage or through the navigation menu, where they can view all available subscription plans and their associated costs.	High
9.	The system shall provide the facility to the visitor to compare different subscription plans on the Pricing page through a	High

	comparison table, highlighting the differences in features, benefits, and costs across each plan.	
10.	The system shall provide the facility to the visitor to view details on the Pricing page about any special offers, discounts, or trial periods that may be available for each plan.	High
View FAQs		
11.	The system shall provide the facility to the visitor to access the FAQs page from the homepage, footer, or navigation menu, where they can browse frequently asked questions related to the platform's features, pricing, and support.	High
12.	The system shall provide the facility to the visitor to search the FAQs page by keywords or filter questions by categories, helping them quickly find relevant information.	High
View Reviews		
13.	The system shall provide the facility to the visitor to view user reviews or testimonials on the homepage.	High
14.	The system shall provide the facility to the visitor to see an aggregated rating on the Reviews page, displayed prominently to give an overall sense of user satisfaction with the platform.	High

3.2.2. Student

Sr. No	Functional Requirement	Priority
Sign Up		
Sign Up via Form		

1.	The system shall provide the facility to the user to click on the "Sign Up for free" button from the landing page or login screen.	High
2.	The system shall provide the facility to the user to view the Sign-up form with the following input fields: <ul style="list-style-type: none">• Email Address• Password	High
3.	The system shall provide the facility to the user to enter the required details in the Sign-up form	High
4.	The system shall provide the facility to the user to click on the "Sign Up" button to submit the form.	High
5.	The system shall provide the facility to the user to receive a Verification Email at the provided email address.	High
6.	The system shall provide the facility to the user to click on the "Resend Verification Email" button if the verification email is not received	High
7.	The system shall provide the facility to the user to click on the verification link in the email to verify their email address.	High
8.	The system shall provide the facility to the user to view a success message after successful verification: "Signed up successfully."	High
Sign Up via Google		
9.	The system shall provide the facility to the user to click on the "Sign Up with Google" button on the Sign-up page.	High

10.	The system shall provide the facility to the user to view a Google OAuth2.0 authentication window after clicking the "Sign Up with Google" button.	High
11.	The system shall provide the facility to the user to select their Google account and log in with their credentials.	High
Sign Up via Apple		
12.	The system shall provide the facility to the user to click on the "Sign Up with Apple" button on the Sign-up page.	High
13.	The system shall provide the facility to the user to view an Apple ID authentication window after clicking the "Sign Up with Apple" button.	High
14.	The system shall provide the facility to the user to log in with their Apple ID credentials.	High
Sign In		
Sign In via Form		
15.	The system shall provide the facility to the customer to click on the Sign In button from landing page.	High
16.	The system shall provide the facility to the customer to view the Sign in form with the following input fields: <ul style="list-style-type: none">● Email● Password	High
17.	The system shall provide the facility to the customer to click on the Sign in button.	High

18.	The system shall provide the facility to the customer to view the success message: “ Signed in successfully ”	High
19.	The system shall provide the facility to the user to be redirected to their dashboard upon successful authentication.	High
Sign In via Google		
20.	The system shall provide the facility to the user to click on the " Sign In with Google " button on the Sign-in page.	High
21.	The system shall provide the facility to the user to view a Google OAuth2.0 authentication window after clicking the " Sign In with Google " button.	High
22.	The system shall provide the facility to the user to select their Google account and log in with their credentials.	High
23.	The system shall provide the facility to the user to be redirected to their dashboard upon successful authentication.	High
Sign In via Apple		
24.	The system shall provide the facility to the user to click on the " Sign In with Apple " button on the Sign-in page	High
25.	The system shall provide the facility to the user to view an Apple ID authentication window after clicking the " Sign In with Apple " button	High
26.	The system shall provide the facility to the user to log in with their Apple ID credentials	High

27.	The system shall provide the facility to the user to be redirected to their dashboard upon successful authentication.	High
Reset Password		
28.	The system shall provide the facility to the user to click on the "Forgot Password?" link on the Sign-in page	High
29.	The system shall provide the facility to the user to view the "Reset Password" form with the following input field: <ul style="list-style-type: none">● Email Address	High
30.	The system shall provide the facility to the user to enter their Email Address in the "Reset Password" form.	High
31.	The system shall provide the facility to the user to click on the "Submit" button after entering their Email Address	High
32.	The system shall provide the facility to the user to receive a password reset email with a link to create a new password.	High
33.	The system shall provide the facility to the user to click on the link in the password reset email, which opens the "Create New Password" form.	High
34.	The system shall provide the facility to the user to view the "Create New Password" form with the following input fields: <ul style="list-style-type: none">● New Password● Confirm New Password	High
35.	The system shall provide the facility to the user to enter and confirm the new password in the "Create New Password" form, ensuring the passwords match.	High

36.	The system shall provide the facility to the user to click on the "Save" button to submit the new password.	High
37.	The system shall provide the facility to the user to view a success message after the new password has been successfully saved: "Your password has been reset successfully."	High
Manage Profile		
Upload Image		
38.	The system shall provide the facility to the user to click on the "Profile" or "Account Settings" option from the dashboard.	High
39.	The system shall provide the facility to the user to view and access the "Upload Image" option within the profile settings.	High
40.	The system shall provide the facility to the user to click on the "Upload Image" button to select a profile picture from their device.	High
41.	The system shall provide the facility to the user to preview the selected image before saving it as their profile picture.	High
42.	The system shall provide the facility to the user to click on the "Save" button to confirm and upload the selected profile image.	High
43.	The system shall provide the facility to the user to view a success message after the profile image has been successfully uploaded: "Profile image updated successfully."	High
Edit Personal Information		
44.	The system shall provide the facility to the user to view and access the "Edit Personal Information" option within the profile settings.	High

45.	The system shall provide the facility to the user to edit the following personal information fields: <ul style="list-style-type: none">• First Name• Last Name• Email Address• Phone Number	High
46.	The system shall provide the facility to the user to click on the "Save" button after making changes to their personal information	High
47.	The system shall provide the facility to the user to view a success message after their personal information has been successfully updated: "Personal information updated successfully."	High
Change Password		
48.	The system shall provide the facility to the user to view and access the "Change Password" option within the profile settings.	High
49.	The system shall provide the facility to the user to enter the following in the "Change Password" form: <ul style="list-style-type: none">• Current Password• New Password• Confirm New Password	High
50.	The system shall provide the facility to the user to click on the "Save" button after entering and confirming the new password	High

51.	The system shall provide the facility to the user to view a success message after the password has been successfully changed: "Your password has been updated successfully."	High
Set Language		
52.	The system shall provide the facility to the user to view and access the "Set Language" option within the profile settings.	High
53.	The system shall provide the facility to the user to select their preferred language from a dropdown list of available languages.	High
54.	The system shall provide the facility to the user to click on the "Save" button to confirm their language selection	High
55.	The system shall provide the facility to the user to view a success message after their preferred language has been successfully set: "Language preference updated successfully."	High
Manage Dashboard		
View All Notes		
56.	The system shall provide the facility to the user to view a list of all their study notes on the dashboard immediately after logging in	High
57.	The system shall provide the facility to the user to display notes in a list or grid format, showing the title, subject/topic, and a brief excerpt of each note	High
58.	The system shall provide the facility to the user to click on a note title to open and review or edit the full content of the note	High
59.	The system shall provide the facility to the user to view the date of last modification and the total number of words or characters in each note.	High

View Flashcards		
60.	The system shall provide the facility to the user to view all their flashcards on the dashboard, organized by decks or topics.	High
61.	The system shall provide the facility to the user to see the title and the number of flashcards in each deck or topic	High
62.	The system shall provide the facility to the user to click on a flashcard deck to view, edit, or review the flashcards within that deck.	High
63.	The system shall provide the facility to the user to view their flashcards in a list or grid format for easy navigation.	High
View Study Progress		
64.	The system shall provide the facility to the user to view their study progress on the dashboard, including metrics such as time spent on notes, flashcards reviewed, and goals achieved.	High
65.	The system shall provide the facility to the user to view visual representations of their progress, such as graphs or charts, showing their performance over time.	High
Filter & Sort		
66.	The system shall provide the facility to the user to filter their notes and flashcards on the dashboard by various criteria, such as date created, date modified, tags, or subject/topic.	High
67.	The system shall provide the facility to the user to select multiple filters simultaneously to narrow down the displayed content on the dashboard.	High

68.	The system shall provide the facility to the user to clear all applied filters with a single action to return to the default view.	High
69.	The system shall provide the facility to the user to sort their notes and flashcards on the dashboard by criteria such as alphabetical order, date created, date modified, or relevance.	High
70.	The system shall provide the facility to the user to switch between ascending and descending order when sorting their notes and flashcards.	High
Search		
71.	The system shall provide the facility to the user to search their notes directly from the dashboard using a search bar.	High
72.	The system shall provide the facility to the user to perform keyword searches within the content of notes, titles, and tags.	High
73.	The system shall provide the facility to the user to display search results in real-time as they type, with relevant notes highlighted in the results.	High
74.	The system shall provide the facility to the user to click on a search result to directly open the corresponding note.	High
Manage Notes		
Create Notes		
75.	The system shall provide the facility to the user to create a new note by clicking on the " Create Note " button from the dashboard or notes section.	High

76.	The system shall provide the facility to the user to choose between creating a note using a template or starting with a custom blank note.	High
77.	The system shall provide the facility to the user to select from a variety of pre-designed templates for different types of notes (e.g., lecture notes, research summaries, study guides).	High
78.	The system shall provide the facility to the user to create custom notes by entering text and adding visual elements (e.g., images, diagrams, charts) directly into the note.	High
79.	The system shall provide the facility to the user to format text within the note, including options for headings, bullet points, numbered lists, bold, italics, and underline.	High
80.	The system shall provide the facility to the user to embed multimedia content such as images, videos, and audio clips within the note to enhance visual learning.	High
81.	The system shall provide the facility to the user to save the note at any point and continue editing it later, with automatic saving of changes.	High
View Notes		
82.	The system shall provide the facility to the user to view a list of all saved notes, with the ability to click on any note title to open and view the full content.	High
83.	The system shall provide the facility to the user to use the following AI-powered tools while viewing a note: 1. Summarize Text	High

	<ul style="list-style-type: none"> 2. Translate Text 3. Generate Flashcard 4. List Key Points 5. Rephrase 6. Explain Sentence 	
84.	The system shall provide the facility to the user to edit the note after viewing, with the ability to add, remove, or modify content as needed.	High
85.	The system shall provide the facility to the user to save any changes made to the note and automatically update the associated flashcards or summaries.	High
Filter and Sort		
86.	The system shall provide the facility to the user to filter their notes by various criteria such as date created, date modified, subject, or tags from the notes section.	High
87.	The system shall provide the facility to the user to apply multiple filters simultaneously to narrow down the list of notes displayed	High
88.	The system shall provide the facility to the user to remove or clear all applied filters with a single action	High
89.	The system shall provide the facility to the user to sort their notes by criteria such as alphabetical order, date created, date modified, or relevance.	High
90.	The system shall provide the facility to the user to toggle between ascending and descending order when sorting notes	High

Organize Notes		
91.	The system shall provide the facility to the user to organize their notes by assigning tags to each note, which can be used for quick filtering and search.	High
92.	The system shall provide the facility to the user to create folders and subfolders to categorize and store notes by subject, topic, or course.	High
93.	The system shall provide the facility to the user to move notes between folders and subfolders, allowing for flexible organization as their study materials evolve.	Medium
94.	The system shall provide the facility to the user to rename, delete, or merge tags, folders, and subfolders to maintain an organized note collection.	Medium
Edit Notes		
95.	The system shall provide the facility to the user to open any saved note and make edits to the text, visual content, or embedded media.	High
96.	The system shall provide the facility to the user to format text within the note, including adding or modifying headings, bullet points, numbered lists, bold, italics, and underline	High
97.	The system shall provide the facility to the user to save the edited note and automatically update any associated flashcards, summaries, or other linked content.	High
Embed Content		

98.	The system shall provide the facility to the user to embed various types of content, such as images, videos, audio files, and hyperlinks, directly into their notes.	High
99.	The system shall provide the facility to the user to resize, reposition, or caption embedded images and videos for better visual organization within the note.	Medium
100.	The system shall provide the facility to the user to annotate embedded images and documents by adding text, arrows, highlights, or other markings directly onto the content.	High
101.	The system shall provide the facility to the user to extract text from embedded documents or images (e.g., OCR - Optical Character Recognition) and insert it directly into the note as editable text.	High
102.	The system shall provide the facility to the user to highlight sections of the note, including embedded content, and automatically generate flashcards from the selected text or images.	High
103.	The system shall provide the facility to the user to save the changes.	High
Delete Notes		
104.	The system shall provide the facility to the user to delete any saved note by clicking on a " Delete " button or icon associated with the note in the notes list or while viewing the note.	High
105.	The system shall provide the facility to the user to confirm the deletion of a note by displaying a confirmation dialog with options to " Delete " or " Cancel ."	High

106.	The system shall provide the facility to the user to move deleted notes to a " Trash " or " Recycle Bin " where they can be recovered or permanently deleted later.	High
Import Document		
107.	The system shall provide the facility to the user to import documents into the notes section by clicking on an " Import Document " button.	High
108.	The system shall provide the facility to the user to select and upload documents in supported formats (e.g., .docx, .pdf, .txt) from their device or cloud storage.	High
109.	The system shall provide the facility to the user to convert the content of the imported document into a note, retaining the original formatting as closely as possible.	Medium
Export Document		
110.	The system shall provide the facility to the user to export any note into different file formats by clicking on an " Export " button while viewing or editing a note.	High
111.	The system shall provide the facility to the user to choose the export format from a list of supported formats, including <ul style="list-style-type: none">● Text (.txt)● Markdown (.md)● HTML (.html)	High
112.	The system shall provide the facility to the user to download the exported document to their device or save it.	Medium

Manage Notes		
Create Flashcards		
113.	The system shall provide the facility to the user to create new flashcards by clicking on a " Create Flashcard " button in the flashcards section or while viewing a note.	High
114.	The system shall provide the facility to the user to enter content for each flashcard.	High
115.	The system shall provide the facility to the user to add multimedia elements to flashcards, such as images, audio clips, or diagrams, to enhance learning.	High
116.	The system shall provide the facility to the user to save flashcards into a specific deck, categorized by subject or topic.	High
View Flashcards		
117.	The system shall provide the facility to the user to view all their flashcards in a list or grid format	High
118.	The system shall provide the facility to the user to click on a flashcard or deck to open and review the flashcards	High
119.	The system shall provide the facility to the user to mark flashcards as "mastered" or "needs review" during the review session for personalized study tracking.	High
Filter & Sort		
120.	The system shall provide the facility to the user to filter flashcards by various criteria such as subject, topic, or tags to focus on specific areas of study.	High

121.	The system shall provide the facility to the user to apply multiple filters simultaneously to narrow down the list of flashcards displayed.	High
122.	The system shall provide the facility to the user to remove or clear all applied filters with a single action to reset the view to show all flashcards.	High
123.	The system shall provide the facility to the user to sort flashcards by criteria.	High
Delete Flashcard		
124.	The system shall provide the facility to the user to delete individual flashcards or entire decks by clicking on a " Delete " button or icon associated with the flashcard.	High
125.	The system shall provide the facility to the user to confirm the deletion of flashcards by displaying a confirmation dialog with options to " Delete " or " Cancel ."	High
Organize Flashcard		
126.	The system shall provide the facility to the user to organize flashcards into decks, grouped by subject, topic, or tags for easy navigation and review.	High
127.	The system shall provide the facility to the user to create, rename, or delete decks and sub-decks as needed to maintain an organized flashcard collection.	High
128.	The system shall provide the facility to the user to assign or modify tags on flashcards for quick filtering and retrieval.	High
Integrate with Notes		

129.	The system shall provide the facility to the user to generate flashcards directly from highlighted text or key points within a note, with the option to edit the flashcard content before saving.	High
130.	The system shall provide the facility to the user to link flashcards to specific notes, allowing quick navigation between the flashcard and the related study material.	Medium
Import Flashcards		
131.	The system shall provide the facility to the user to import flashcards from external sources or other applications in supported formats (e.g., .csv, .txt).	High
132.	The system shall provide the facility to the user to review and organize imported flashcards into existing or new decks.	Medium
133.	The system shall provide the facility to the user to automatically format imported flashcards.	Medium
Export Flashcards		
134.	The system shall provide the facility to the user to export flashcards in various formats (e.g., .csv, .txt)	High
135.	The system shall provide the facility to the user to select specific decks or individual flashcards to export.	Medium
136.	The system shall provide the facility to the user to include or exclude tags, notes, or multimedia elements in the exported flashcards.	Medium
Generate Quiz		

137.	The system shall provide the facility to the user to generate a quiz by selecting specific notes and/or flashcards from the dashboard or within the notes/flashcards section.	High
138.	The system shall provide the facility to the user to customize the quiz parameters, including the number of questions, time limits, and difficulty level	High
139.	The system shall provide the facility to the user to automatically generate quiz questions based on the content of the selected notes and flashcards	High
140.	The system shall provide the facility to the user to review and edit the generated quiz questions before starting the quiz, allowing for adjustments or additions.	High
141.	The system shall provide the facility to the user to start the quiz and track their progress in real-time, including time remaining and questions answered.	High
Explore Documents		
142.	The system shall provide the facility to the user to explore and view documents that other users have shared publicly, accessible from a dedicated " Explore Documents " section.	High
143.	The system shall provide the facility to the user to filter shared documents by criteria such as subject, topic, date shared, and popularity.	High
144.	The system shall provide the facility to the user to search for specific documents using keywords, titles, or tags.	High

145.	The system shall provide the facility to the user to view a document's details, including the title, author, date shared, and a brief description or abstract.	High
146.	The system shall provide the facility to the user to leave comments on shared documents, contributing to a community-driven content evaluation system.	Medium
147.	The system shall provide the facility to the user to save shared documents to their personal library for easy access later.	Medium
Collaboration and Sharing		
Share Documents		
148.	The system shall provide the facility to the user to share documents (notes, flashcards, etc.) with other users by selecting a " Share " option available within the document's interface.	High
149.	The system shall provide the facility to the user to share documents by entering the recipient's email address or selecting from a list of contacts or groups within the platform.	High
150.	The system shall provide the facility to the user to set permissions (view-only, edit, comment) for each shared document at the time of sharing.	High
View Shared Documents		
151.	The system shall provide the facility to the user to view a list of all documents that have been shared with them, accessible from a dedicated " Shared Documents " section.	High
152.	The system shall provide the facility to the user to view shared documents with the permissions set by the document owner i.e.	High

	<ul style="list-style-type: none"> ● view-only ● edit ● comment 	
153.	The system shall provide the facility to the user to filter and sort shared documents by criteria such as the document owner, date shared, and permissions granted.	Medium
154.	The system shall provide the facility to the user to open and interact with shared documents based on the permissions granted by the document owner	High
Set Permissions		
155.	The system shall provide the facility to the user to set permissions for shared notes at any time after sharing, allowing the document owner to control access.	High
156.	The system shall provide the facility to the user to assign specific permissions to individual users or groups, enabling collaboration at different levels	High
157.	The system shall provide the facility to the user to revoke or change permissions for any shared document, instantly updating access rights for the recipients.	High
Create virtual study room		
158.	The system shall provide the facility to the user to create a virtual study room, where multiple users can collaborate on documents in real-time.	High

159.	The system shall provide the facility to the user to invite other users to join the virtual study room by sending invitations through the platform.	High
160.	The system shall provide the facility to the user to organize the virtual study room by subject, topic, or specific study goals, with options to upload and share related documents within the room.	Medium
161.	The system shall provide the facility to the user to set specific permissions for all members of the virtual study room, controlling who can edit, view, or comment on shared content.	Medium
Advanced Features		
162.	The system shall provide the facility to the user to co-edit shared documents in real-time, allowing multiple users to make changes simultaneously with live updates visible to all collaborators.	High
163.	The system shall provide the facility to the user to see markers showing who is currently editing or viewing a document, along with their edits highlighted in real-time.	High
164.	The system shall provide the facility to the user to add comments to specific sections of a document, starting a threaded discussion within the document's interface.	High
165.	The system shall provide the facility to the user to reply to comments, creating a thread of discussion.	Medium
166.	The system shall provide the facility to the user to receive notifications of new comments or replies in documents they have access to.	Medium
Manage Goals		

Set Study Goal		
167.	The system shall provide the facility to the user to set study goals by clicking on a " Set Study Goal " button within the goals section or dashboard.	High
168.	The system shall provide the facility to the user to specify details for the study goal, including the subject, topic, or specific notes to be covered, and the desired completion date.	High
169.	The system shall provide the facility to the user to break down the study goal into smaller tasks or milestones, such as chapters or topics, with individual deadlines.	Medium
170.	The system shall provide the facility to the user to prioritize study goals, allowing them to focus on the most important or urgent tasks first.	Medium
171.	The system shall provide the facility to the user to save and track progress on the study goals, with visual indicators showing percentage completion or time remaining.	High
Set Exam Schedule		
172.	The system shall provide the facility to the user to set an exam date by selecting a specific date from a calendar interface within the exam scheduling section.	High
173.	The system shall provide the facility to the user to link the exam date to relevant study goals or tasks, automatically generating a study plan based on the time remaining until the exam.	High
174.	The system shall provide the facility to the user to adjust the exam date if necessary, with the system automatically recalculating the study plan to fit the new schedule.	Medium

175.	The system shall provide the facility to the user to create a study plan that outlines what topics or materials need to be covered each day or week leading up to the exam.	High
176.	The system shall provide the facility to the user to customize the study plan by adding, removing, or reordering tasks based on their preferences or progress.	Medium
177.	The system shall provide the facility to the user to set specific time blocks for studying, which can be integrated with their personal calendar to avoid conflicts with other commitments.	Medium
Track Task Progress		
178.	The system shall provide the facility to the user to track the progress of each study task or goal	High
179.	The system shall provide the facility to the user to mark tasks as completed, which will automatically update the overall progress of the study goal or exam preparation.	High
180.	The system shall provide the facility to the user to view a summary of their progress across all study goals and tasks	High
Receive Reminders		
181.	The system shall provide the facility to the user to receive reminders for upcoming exams.	High
182.	The system shall provide the facility to the user to choose how they receive reminders (e.g., via email, push notifications, in-app notifications) and set preferences accordingly	Medium

183.	The system shall provide the facility to the user to receive reminders for specific study tasks or milestones that are part of their exam preparation plan, ensuring they stay on track.	High
184.	The system shall provide the facility to the user to snooze or dismiss reminders, with the option to reschedule them if needed.	Medium
Progress Tracking and Analytics		
View Detailed Analytics		
185.	The system shall provide the facility to the user to view detailed analytics of their study progress on the dashboard or within a dedicated " Analytics " section.	High
186.	The system shall provide the facility to the user to view analytics that include metrics such as <ul style="list-style-type: none"> ● completed tasks ● notes reviewed ● flashcards mastered ● overall goal completion percentages 	High
187.	The system shall provide the facility to the user to view visual representations of their progress, such as graphs, charts, and progress bars, showing their performance over time.	High
Track Time Spent		
188.	The system shall provide the facility to the user to automatically track the time spent on various study activities, including reviewing notes, practicing flashcards, and completing tasks.	High

189.	The system shall provide the facility to the user to view a breakdown of time spent on each activity, with daily, weekly, and monthly summaries available for review.	High
Earn Badge		
190.	The system shall provide the facility to the user to earn badges for reaching specific study milestones.	High
191.	The system shall provide the facility to the user to view a list of available badges and track their progress towards earning them.	High
192.	The system shall provide the facility to the user to receive notifications when they earn a new badge.	High
Generate Reports		
193.	The system shall provide the facility to the user to generate reports summarizing their study progress over a specified period	High
194.	The system shall provide the facility to the user to customize the content of the reports, choosing which metrics and analytics to include.	Medium
195.	The system shall provide the facility to the user to export reports in various formats (e.g., PDF, Excel) for sharing or further analysis outside the platform.	Medium
Compare Performance		
196.	The system shall provide the facility to the user to compare their performance against their own past performance, tracking improvements or declines over time.	Medium

197.	The system shall provide the facility to the user to compare their performance with other users (opt-in feature), allowing them to benchmark their progress against peers.	Medium
198.	The system shall provide the facility to the user to view comparison results in a visual format, such as graphs or charts.	Medium
General Settings		
Theme and Appearance		
199.	The system shall provide the facility to the user to customize the theme and appearance of the platform by selecting from a range of pre-designed themes: <ul style="list-style-type: none"> ● Light mode ● Dark mode 	High
200.	The system shall provide the facility to the user to adjust individual appearance settings, such as font size, background color, and text color, to suit their preferences.	Medium
201.	The system shall provide the facility to the user to preview changes to the theme and appearance before applying them, ensuring they are satisfied with the customization.	Medium
202.	The system shall provide the facility to the user to save their chosen theme and appearance settings	High
Notification Settings		
203.	The system shall provide the facility to the user to customize their notification preferences by selecting the types of notifications they wish to receive	High

204.	The system shall provide the facility to the user to choose how they receive notifications (e.g., via email, push notifications, in-app notifications) and adjust settings for each type	High
205.	The system shall provide the facility to the user to set specific notification triggers, such as <ul style="list-style-type: none">● reminders for upcoming exams● new shared documents● goal milestones	High
206.	The system shall provide the facility to the user to mute notifications temporarily, with the ability to specify the duration	High
Earn Credits		
207.	The system shall provide the facility to the user to participate in a referral program, earning credits for inviting new users to join the platform.	High
208.	The system shall provide the facility to the user to share a unique referral link with others via email, social media, or messaging apps.	High
209.	The system shall provide the facility to the user to track the status of their referrals, including how many users have signed up using their link and how many credits they have earned.	High
210.	The system shall provide the facility to the user to redeem earned credits for various rewards	High
Account Settings		

211.	The system shall provide the facility to the user to update their profile information, including: <ul style="list-style-type: none">• name• email address• phone number• profile picture	High
212.	The system shall provide the facility to the user to save changes to their profile information	High
Manage Subscription		
Upgrade/ Downgrade Plan		
213.	The system shall provide the facility for the user to view available subscription plans on the Subscription page.	High
214.	The system shall provide the facility for the user to select a new subscription plan from the available options.	High
215.	The system shall provide the facility for the user to confirm the upgrade or downgrade of their current subscription plan.	High
216.	The system shall provide the facility for the user to view a summary of the new plan details, including price, duration, and features before confirming the change.	High
217.	The system shall provide the facility for the user to view a confirmation message after successfully upgrading or downgrading their subscription plan.	High
Make Payment		

218.	The system shall provide the facility for the user to view their current subscription plan and the amount due on the Payment page.	High
219.	The system shall provide the facility for the user to select a payment method from available options such as <ul style="list-style-type: none">● credit card● debit card● PayPal	High
220.	The system shall provide the facility for the user to enter payment details such as <ul style="list-style-type: none">● card number● expiration date● CVV	High
221.	The system shall provide the facility for the user to review their payment details before confirming the transaction.	High
222.	The system shall provide the facility for the user to receive a confirmation message after a successful payment, including a receipt or invoice.	High
223.	The system shall provide the facility for the user to update their saved payment methods for future transactions	High
Get Help		
Chat with Support		
224.	The system shall provide the facility for the user to access the Support page from the Help menu.	High

225.	The system shall provide the facility for the user to initiate a chat session with a support representative by clicking the " Chat with Support " option.	High
226.	The system shall provide the facility for the registered user to enter their query or issue in a chat window.	High
View FAQs		
227.	The system shall provide the facility for the user to access the FAQ section from the Help menu.	High
228.	The system shall provide the facility for the user to browse through categorized frequently asked questions.	High
229.	The system shall provide the facility for the user to view detailed answers or solutions to common issues by selecting a question from the FAQ list.	High
230.	The system shall provide the facility for the registered user to submit feedback on the usefulness of the FAQ answers.	Medium
Log Out		
231.	The system shall provide the facility for the registered user to log out of their account by selecting the " Log Out " option from the Account or Settings menu.	High
232.	The system shall provide the facility for the user to confirm to log out through a prompt or confirmation dialog.	High
233.	The system shall provide the facility for the user to be securely logged out of their account and redirected to the login or home page upon confirmation.	High

3.2.3. Super Admin

Sr. No	Functional Requirement	Priority
Log In		
1.	The system shall be able to provide the facility to the admin to click the login option to login the account	High
2.	The system shall be able to provide the facility to the admin to view the login form with the following details <ul style="list-style-type: none">● Email● Password	High
3.	The system shall be able to provide the facility to the admin to enter the following details <ul style="list-style-type: none">● Email● Password	High
4.	The system shall be able to provide the facility to the client to click the login option to login the account	High
5.	The system shall provide the facility to the user to receive a Verification Email at the provided email address.	High
6.	The system shall provide the facility to the user to view a success message after successful verification: " Signed In successfully. "	High
Reset Password		
7.	The system shall be able to provide the facility to the client to admin the " Forget password " to reset the password	High

8.	The system shall be able to provide the facility to the admin to enter the registered email on which he wants to receive the reset password code	High
9.	The system shall be able to provide the facility to the admin to receive the reset password link	High
10.	The system shall be able to provide the facility to the admin to click the “resent reset password link” to receive new reset password link	High
11.	The system shall be able to provide the facility to the admin to click the reset password link and land on the reset password screen with the following fields <ul style="list-style-type: none"> ● New password ● Confirm password 	High
12.	The system shall be able to provide the facility to the admin to click the “ Reset Password ” to reset the new password	High
Change Password		
13.	The system shall be able to provide the facility to the admin to Click the change password in the profile.	High
14.	The system shall be able to provide the facility to the admin to enter the following fields to change the password: <ul style="list-style-type: none"> ● Current password ● New password 	High
15.	The system shall be able to provide the facility to the admin to click submit to change the password.	High
Manage Dashboard		

View System Statistics		
16.	The system shall provide the facility to the Admin to view comprehensive statistics and analytics directly from the dashboard.	High
17.	The system shall be able to provide the facility to the admin to view the following statistics on the dashboard: <ul style="list-style-type: none">● Total Number of Registered Users● Total Active Users● Total Notes Created● Total Flashcards Created● Total Documents Shared● Total Subscriptions (Paid/Free)● Total Revenue	High
18.	The system shall be able to provide the facility to the admin to view visual representations of the statistics, such as graphs or charts, on the dashboard.	High
19.	The system shall be able to provide the facility to the admin to view real-time updates of the system statistics on the dashboard.	High
View User Activities		
20.	The system shall be able to provide the facility to the admin to view the following user activities on the dashboard: <ul style="list-style-type: none">● Recent Subscriptions● Shared Notes Created/Edited	High

	<ul style="list-style-type: none"> Flashcards Created/Edited Documents Shared 	
21.	The system shall be able to provide the facility to the admin to view detailed logs of user activities, including timestamps and user IDs.	Medium
Filter & Sort Statistics		
22.	<p>The system shall be able to provide the facility to the admin to filter the dashboard statistics by the following criteria:</p> <ul style="list-style-type: none"> Date (e.g., Specific Date, Date Range) Time Period (e.g., Yearly, Monthly, Weekly, Daily) User Type (e.g., Paid Users, Free Users) 	High
23.	<p>The system shall be able to provide the facility to the admin to sort the dashboard statistics in ascending or descending order based on the following:</p> <ul style="list-style-type: none"> Total Numbers (e.g., Highest to Lowest, Lowest to Highest) Alphabetical Order (e.g., A-Z, Z-A) Date/Time of Activity 	High
24.	The system shall be able to provide the facility to the admin to save and apply filters and sort preferences for future use.	High
Manage Users		
View Users		
25.	The system shall be able to provide the facility to the admin to view a list of all registered users on the Users Management page.	High

26.	The system shall be able to provide the facility to the admin to view detailed information for each user, including: <ul style="list-style-type: none">• User ID• Name• Email Address• Account Type (e.g., Free, Paid)• Registration Date• Last Login Date• Account Status (e.g., Active, Blocked)	High
27.	The system shall be able to provide the facility to the admin to view a summary of user activity, such as the number of notes and flashcards created.	High
Search Users		
28.	The system shall be able to provide the facility to the admin to search for users by entering keywords such as <ul style="list-style-type: none">• User ID• Name• Email Address.	High
29.	The system shall be able to provide the facility to the admin to search for users based on account type (e.g., Free, Paid) or account status (e.g., Active, Blocked).	High

30.	The system shall be able to provide the facility to the admin to search for users within a specific date range (e.g., registration date, last login date).	High
Sort & Filter Users		
31.	The system shall be able to provide the facility to the admin to sort the list of users in ascending or descending order based on the following criteria: <ul style="list-style-type: none">● Name (A-Z, Z-A)● Registration Date (Newest First, Oldest First)● Last Login Date (Most Recent First, Least Recent First)● Account Type (e.g., Free, Paid)	High
32.	The system shall be able to provide the facility to the admin to filter the list of users based on the following criteria: <ul style="list-style-type: none">● Account Type (e.g., Free, Paid)● Account Status (e.g., Active, Blocked)● Date Range (e.g., Registered within the last 30 days)	High
Block/ Unblock User		
33.	The system shall be able to provide the facility to the admin to block a user by selecting the " Block " option next to the user's name.	High
34.	The system shall be able to provide the facility to the admin to unblock a user by selecting the " Unblock " option next to the user's name	High

35.	The system shall be able to provide the facility to the admin to view a confirmation prompt before blocking or unblocking a user.	High
36.	The system shall be able to provide the facility to the admin to receive a confirmation message after successfully blocking or unblocking a user.	High
37.	The system shall ensure that blocked users cannot log in or access their account until unblocked by an admin.	High
Delete User		
38.	The system shall be able to provide the facility to the admin to delete a user by selecting the " Delete " option next to the user's name	High
39.	The system shall be able to provide the facility to the admin to view a confirmation prompt before permanently deleting a user account.	High
40.	The system shall ensure that deleting a user account will remove all associated data, including notes, flashcards, and shared documents, from the system.	High
41.	The system shall be able to provide the facility to the admin to receive a confirmation message after successfully deleting a user account.	High
42.	The system shall ensure that once a user account is deleted, it cannot be recovered.	High
Manage Shared Documents		
Moderate User Generated Content		
43.	The system shall be able to provide the facility to the admin to view all shared documents created by users on the Shared Documents.	High

44.	The system shall be able to provide the facility to the admin to review the content of each shared document, including text, images, videos, and embedded links.	High
45.	The system shall be able to provide the facility to the admin to flag content within shared documents that violates community guidelines or terms of service.	High
46.	The system shall be able to provide the facility to the admin to mark content as " Approved " or " Under Review " based on the moderation process.	High
47.	The system shall ensure that flagged content is temporarily restricted from further sharing until the moderation process is complete.	High
Delete Inappropriate Content		
48.	The system shall be able to provide the facility to the admin to delete inappropriate content from shared documents by selecting the " Delete " option.	High
49.	The system shall be able to provide the facility to the admin to view a confirmation prompt before permanently deleting inappropriate content.	High
50.	The system shall ensure that deleting inappropriate content will immediately remove it from the shared document and prevent further sharing.	High
51.	The system shall be able to provide the facility to the admin to notify the user who created the document about the deletion, including the reason for removal.	High

52.	The system shall ensure that a record of the deleted content, along with the reason for deletion.	High
53.	The system shall be able to provide the facility to the admin to receive a confirmation message.	High
Manage Notes		
Create Template		
54.	The system shall be able to provide the facility to the admin to create and add note templates for users	High
55.	The system shall be able to provide the facility to the admin to define the structure of a note template, including sections, formatting, and placeholders.	High
56.	The system shall be able to provide the facility to the admin to categorize templates by subject, type, or intended use (e.g., lecture notes, study guides).	High
57.	The system shall be able to provide the facility to the admin to make templates available to all users or specific user groups (e.g., paid users, educators).	High
58.	The system shall be able to provide the facility to the admin to edit or delete existing templates as needed.	High
59.	The system shall ensure that newly added or updated templates are immediately accessible to users when creating new notes	High
View Notes		
60.	The system shall be able to provide the facility to the admin to view all notes created by users.	High

61.	The system shall be able to provide the facility to the admin to view detailed information for each note, including: <ul style="list-style-type: none">• Note Title• Author (User ID, Name)• Creation Date• Last Modified Date• Associated Tags or Folders	High
62.	The system shall be able to provide the facility to the admin to view the full content of each note, including embedded images, videos, audio, and links.	High
Search Notes		
63.	The system shall be able to provide the facility to the admin to search for specific notes by entering keywords, note titles, or author names.	High
64.	The system shall be able to provide the facility to the admin to search for notes based on specific criteria such as: <ul style="list-style-type: none">• Creation Date• Last Modified Date• Tags or Folders• Content Type (e.g., text, visual)	High
65.	The system shall be able to provide the facility to the admin to view search results in a list format, with options to view, edit, or delete the note.	High

Filter & Sort Notes		
66.	The system shall be able to provide the facility to the admin to filter notes based on the following criteria: <ul style="list-style-type: none">• Date Range (e.g., Notes created within the last month)• Tags or Folders	High
67.	The system shall be able to provide the facility to the admin to sort notes in ascending or descending order based on the following criteria: <ul style="list-style-type: none">• Note Title (A-Z, Z-A)• Creation Date (Newest First, Oldest First)• Last Modified Date (Most Recent First, Least Recent First)	High
68.	The system shall be able to provide the facility to the admin to apply multiple filters and sort criteria simultaneously to refine the list of notes.	High
69.	The system shall be able to provide the facility to the admin to save and apply filter and sort preferences for future use.	High
Analytics and Reports		
Generate Reports		
70.	The system shall be able to provide the facility to the admin to generate detailed reports on user activity, financial data, and content management from the Reports section.	High
71.	The system shall be able to provide the facility to the admin to generate User Activity reports , which include:	High

	<ul style="list-style-type: none">● Number of Active Users● User Engagement Metrics (e.g., Notes Created, Flashcards Created, Documents Shared)● Login Frequency● Popular Features Used	
72.	<p>The system shall be able to provide the facility to the admin to generate Financial reports, which include:</p> <ul style="list-style-type: none">● Total Revenue● Subscription Details (e.g., Number of Paid Subscriptions, Subscription Upgrades/Downgrades)● Payment History and Transactions● Refunds Processed	High
73.	<p>The system shall be able to provide the facility to the admin to generate Content reports, which include:</p> <ul style="list-style-type: none">● Total Notes Created● Total Flashcards Created● Most Commonly Used Templates● Content Moderation Actions (e.g., Inappropriate Content Deleted)	High
74.	<p>The system shall be able to provide the facility to the admin to customize the reports by selecting specific date ranges, user groups, or content types for analysis.</p>	High

75.	The system shall be able to provide the facility to the admin to view generated reports in various formats, such as tables, charts, and graphs.	High
Export Reports		
76.	The system shall be able to provide the facility to the admin to export generated reports in multiple formats, including: <ul style="list-style-type: none">● PDF● Excel (XLSX)● CSV● HTML	High
77.	The system shall be able to provide the facility to the admin to select specific sections of a report to export or export the entire report.	High
78.	The system shall be able to provide the facility to the admin to customize export options, such as including/excluding certain data fields or formatting styles.	High
79.	The system shall be able to provide the facility to the admin to receive a confirmation message after a report has been successfully exported.	High
Manage Subscription Plans		
Create Subscription Plan		
80.	The system shall be able to provide the facility to the admin to create a new subscription plan	High

81.	<p>The system shall be able to provide the facility to the admin to define the following details for a new subscription plan:</p> <ul style="list-style-type: none">● Plan Name● Plan Description● Price● Duration (e.g., Monthly, Yearly)● Features Included	High
82.	<p>The system shall be able to provide the facility to the admin to set the plan's availability status (e.g., Active, Inactive).</p>	High
83.	<p>The system shall be able to provide the facility to the admin to view a confirmation message after successfully creating a new subscription plan.</p>	High
View Subscription Plan		
84.	<p>The system shall be able to provide the facility to the admin to view a list of all existing subscription plans.</p>	High
85.	<p>The system shall be able to provide the facility to the admin to view detailed information for each subscription plan, including:</p> <ul style="list-style-type: none">● Plan Name● Plan Description● Price● Duration● Features Included	High

	<ul style="list-style-type: none"> • Availability Status 	
86.	The system shall be able to provide the facility to the admin to view subscription plan usage statistics, such as the number of users subscribed to each plan.	High
Delete Subscription Plan		
87.	The system shall be able to provide the facility to the admin to delete an existing subscription plan by selecting the "Delete" option next to the plan.	High
88.	The system shall be able to provide the facility to the admin to view a confirmation prompt before permanently deleting a subscription plan.	High
89.	The system shall ensure that deleting a subscription plan will remove it from the available options for new subscriptions	High
90.	The system shall be able to provide the facility to the admin to receive a confirmation message after successfully deleting a subscription plan.	High
Modify Subscription Plan		
91.	The system shall be able to provide the facility to the admin to modify an existing subscription plan by selecting the "Edit" option next to the plan.	High
92.	<p>The system shall be able to provide the facility to the admin to update the following details for a subscription plan:</p> <ul style="list-style-type: none"> • Plan Name • Plan Description 	High

	<ul style="list-style-type: none">• Price• Duration Features Included	
93.	The system shall be able to provide the facility to the admin to update the plan's availability status (e.g., Active, Inactive).	High
Manage User Subscriptions		
94.	The system shall be able to provide the facility to the admin to view a list of users and their current subscription plans	High
95.	The system shall be able to provide the facility to the admin to search for users based on their subscription plan or status.	High
96.	The system shall be able to provide the facility to the admin to view subscription history for each user, including plan changes, renewals, and cancellations.	High
Manage Payments		
View Payment History		
97.	The system shall be able to provide the facility to the admin to view a comprehensive list of all payment transactions	High
98.	The system shall be able to provide the facility to the admin to view detailed information for each payment transaction, including: <ul style="list-style-type: none">• Transaction ID• User ID (Name, Email Address)• Payment Date• Payment Amount	High

	<ul style="list-style-type: none"> ● Payment Method (e.g., Credit Card, PayPal) ● Subscription Plan (if applicable) ● Transaction Status (e.g., Completed, Pending, Failed) 	
99.	<p>The system shall be able to provide the facility to the admin to filter payment history by the following criteria:</p> <ul style="list-style-type: none"> ● Date Range (e.g., Specific Dates, Last 30 Days) ● Payment Status (e.g., Completed, Pending, Failed) ● User ID or Name ● Payment Method 	High
100.	<p>The system shall be able to provide the facility to the admin to sort payment history by the following criteria:</p> <ul style="list-style-type: none"> ● Payment Date (Newest First, Oldest First) ● Payment Amount (Highest First, Lowest First) ● Transaction ID (Ascending, Descending) 	High
101.	<p>The system shall be able to provide the facility to the admin to search for specific payment transactions using keywords or filters</p>	High
102.	<p>The system shall ensure that payment history data is displayed in a secure manner, protecting sensitive financial information.</p>	High
103.	<p>The system shall provide the facility to the admin to export payment history data in various formats, such as CSV, Excel (XLSX), or PDF.</p>	High

Manage Support

Manage FAQ Content		
104.	The system shall be able to provide the facility to the admin to view and manage the Frequently Asked Questions (FAQ) content on the FAQ Management page.	High
105.	The system shall be able to provide the facility to the admin to add new FAQ entries, including: <ul style="list-style-type: none">• Question• Answer	High
106.	The system shall be able to provide the facility to the admin to edit existing FAQ entries, including updating the question or answer.	High
107.	The system shall be able to provide the facility to the admin to delete FAQ entries as needed.	High
108.	The system shall be able to provide the facility to the admin to categorize FAQ entries by topic or type.	High
109.	The system shall be able to provide the facility to the admin to preview how FAQ content will appear to users before publishing changes.	High
Manage Settings		
Update System Settings		
110.	The system shall be able to provide the facility to the admin to update global system settings on the Settings Management page.	High
111.	The system shall be able to provide the facility to the admin to configure the following system settings:	High

	<ul style="list-style-type: none"> ● Email Settings (e.g., SMTP configuration, notification email addresses) ● Security Settings (e.g., Password policies, Two-factor authentication settings) ● API Access (e.g., API keys, permissions) ● Backup and Restore Settings 	
112.	The system shall be able to provide the facility to the admin to save and apply changes to the system settings.	High
Manage Referral Program		
113.	The system shall be able to provide the facility to the admin to view and manage the referral program	High
114.	<p>The system shall be able to provide the facility to the admin to configure referral program settings, including:</p> <ul style="list-style-type: none"> ● Referral Bonus Amount or Percentage ● Eligibility Criteria (e.g., New Users, Subscription Upgrades) ● Referral Tracking Parameters (e.g., Referral Codes, Tracking Links) 	High
115.	<p>The system shall be able to provide the facility to the admin to view referral statistics, including:</p> <ul style="list-style-type: none"> ● Total Referrals ● Active Referrals 	High

116.	The system shall be able to provide the facility to the admin to update or disable the referral program as needed	High
117.	The system shall be able to provide the facility to the admin to generate and export reports on referral program performance.	High
Manage Theme and Appearance Settings		
118.	The system shall be able to provide the facility to the admin to update the theme and appearance settings of the application	High
119.	The system shall be able to provide the facility to the admin to preview changes to the theme and appearance before applying them.	High
120.	The system shall be able to provide the facility to the admin to save and apply new theme and appearance settings.	High
Log Out		
121.	The system shall be able to provide the facility to the admin to log out of the application by selecting the " Log Out " option from the user menu.	High
122.	The system shall be able to provide the facility to the admin to view a confirmation prompt before completing the log-out process	High
123.	The system shall ensure that logging out will end the current session and redirect the admin to the login page.	High
124.	The system shall ensure that any unsaved changes or ongoing tasks are properly saved or prompted for saving before logging out.	Medium

3.3.Non-Functional Requirements

3.3.1. Usability

- **U_1:** The system interface shouldn't be too complex. It should be easy to use so the users can use the system without trouble.
- **U_2:** There must be a sequence of navigations, and every navigation must be connected.
- **U_3:** The system should have proper labels so the user can determine the purpose of the feature he/she is using.
- **U_4:** The system must provide a uniform look and feel between all the pages

3.3.2. Security

- **S_1:** The system only grants access to the account if the user enters the correct details in the login form.

3.3.3. Compliance

- **Comp_1:** The system must comply with data protection regulations such as GDPR.

3.3.4. Portability

- **Por_1:** The system shall run smoothly on multiple devices.

3.3.5. Compatibility

- **Com_1:** The system shall be compatible with different screen resolutions and display sizes to ensure optimal user experience across devices.

3.3.6. Maintainability

- **M_1:** The system shall be able to easily make changes at the code level, and the code should be well refactored.

3.3.7. Capacity

- **Cap_1:** The system must have enough capacity to accommodate up to 1,000 users at any time.

3.3.8. Reliability

- **R_1:** The system should have an uptime of 99.9% to ensure continuous availability for users.

- **R_2:** Automated failover mechanisms must be implemented to minimize downtime in case of server failures.

3.3.9. Flexibility

- **F_1:** The system shall be able to add new features.
- **F_2:** The system shall have the capacity to adapt the feature when it is updated in the later stages

3.3.10. Performance

- **P_1:** The system must respond to the user's action within 2 sec to minimize the latency.

3.4. Testing and Validation Requirements

3.4.1. Testing Levels

- **Unit Testing:**
 - Each functional component, including note creation, flashcard generation, and user management, shall undergo unit testing to ensure individual parts of the system function as expected.
 - API endpoints and integrations with third-party services (e.g., Google Sign-In, Apple Sign-In) shall be tested for correct functionality.
- **Integration Testing:**
 - The interactions between different modules, such as note management, flashcard integration, and user authentication, shall be tested to ensure seamless functionality.
 - Integration of AI-powered features (e.g., summarization, translation) with notes and flashcards shall be validated.
- **System Testing:**
 - The complete system shall be tested to verify compliance with the specified requirements, including cross-platform compatibility (e.g., web, mobile, desktop).
 - The system's ability to handle multiple user types (e.g., Visitors, Students, Super Admins) and their interactions shall be validated.
- **Acceptance Testing:**

- The system shall undergo acceptance testing with a set of end-users (students and educators) to ensure it meets their needs and project requirements.
- User experience shall be validated for ease of use, navigation, and overall satisfaction.

5.2 Testing Types

- **Functional Testing:**

- All functional requirements, including note management, flashcard creation, and account settings, shall be verified for correct implementation.
- Testing of user roles and permissions, including features available to Visitors, Students, and Super Admins, shall be conducted.

- **Non-Functional Testing:**

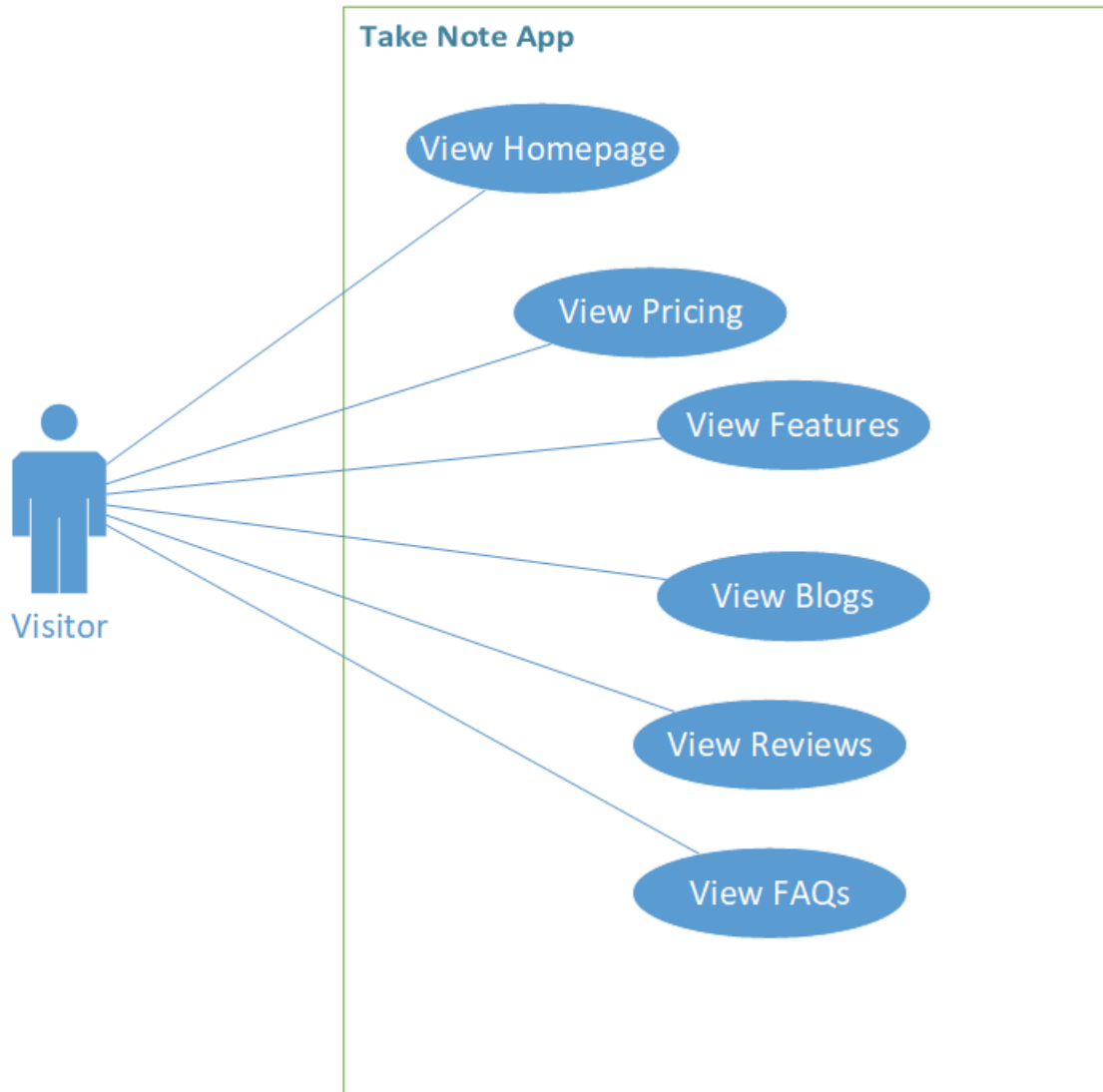
- **Usability Testing:** The user interface shall be tested for intuitiveness, ensuring users can navigate and use the app without difficulty.
- **Performance Testing:**
 - Key actions (e.g., loading notes, saving flashcards) shall have response times tested to meet the 2-second performance requirement.
 - The system shall undergo load testing to ensure it can handle up to 1000 concurrent users.
- **Security Testing:**
 - Security features such as login handling and multi-factor authentication shall be tested.
 - Compliance with GDPR and other data protection regulations shall be verified.
- **Compatibility Testing:**

- The system shall be tested across different devices (Windows, macOS, Android, iOS) and browsers (Chrome, Firefox, Safari) for compatibility.
- Screen resolutions and display sizes shall be tested to ensure optimal user experience.
- **Regression Testing:**
 - The system shall undergo regression testing to ensure that new features or bug fixes do not adversely affect existing functionalities.
- **User Acceptance Testing (UAT):**
 - The system shall be tested by real users to confirm that it meets the intended user experience and business requirements.

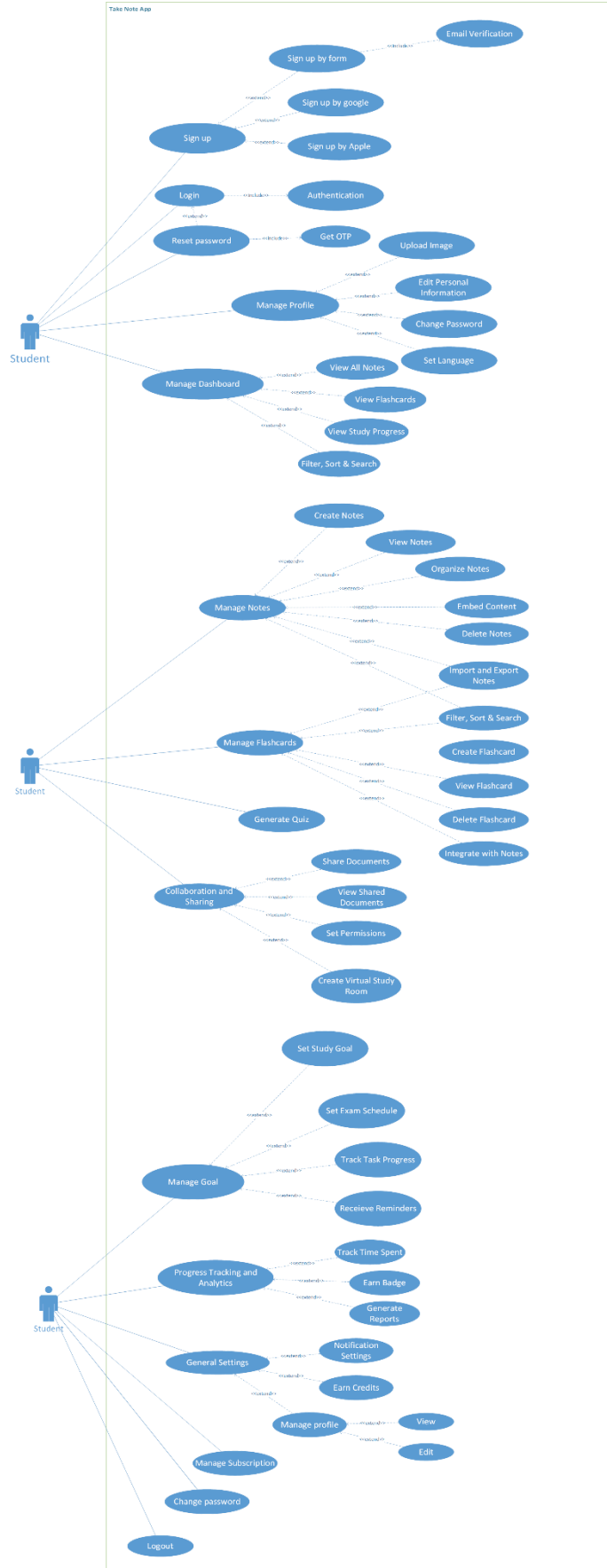
4. System Models

4.1. Use Case Diagram

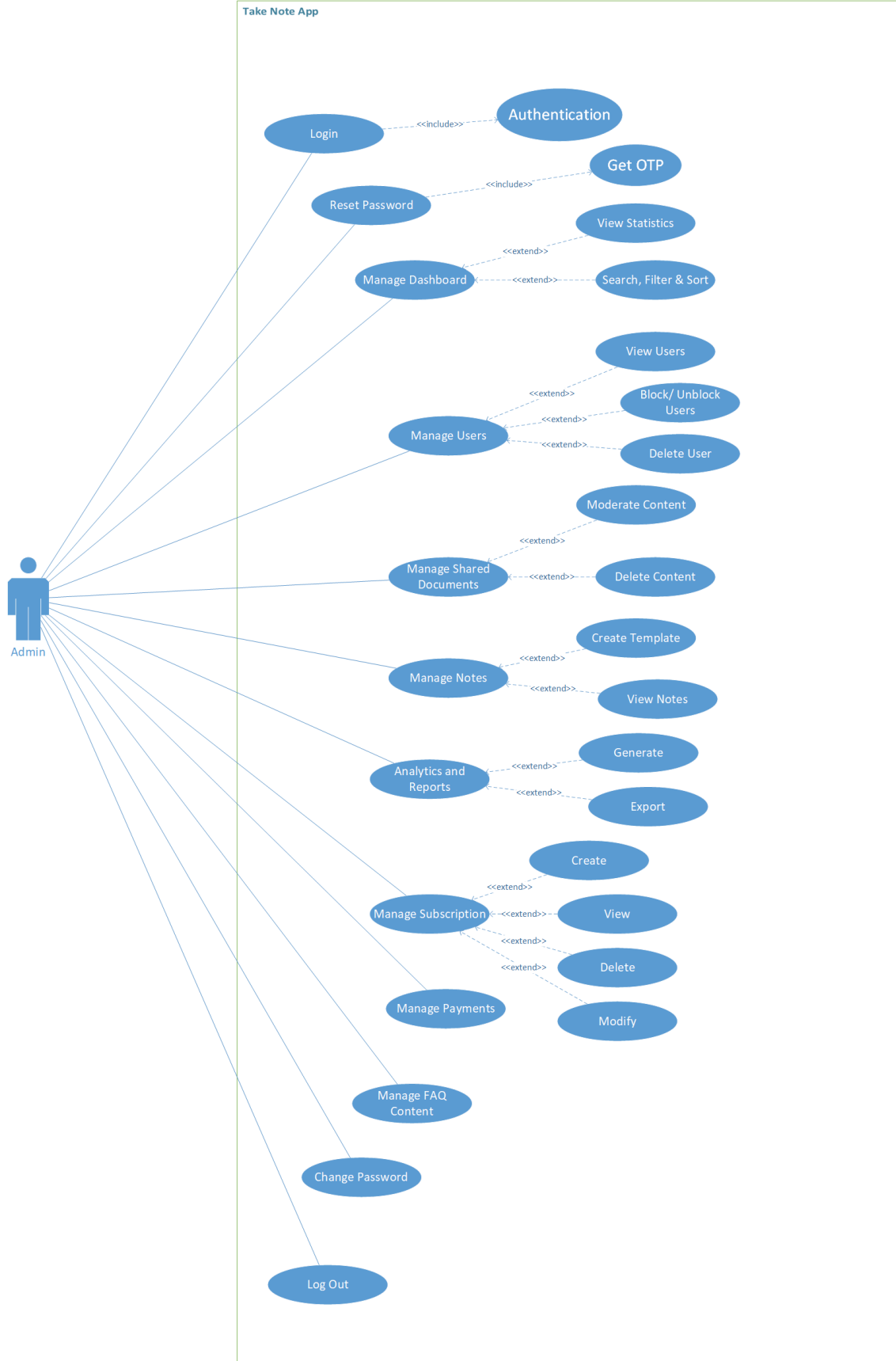
4.1.1. Visitor



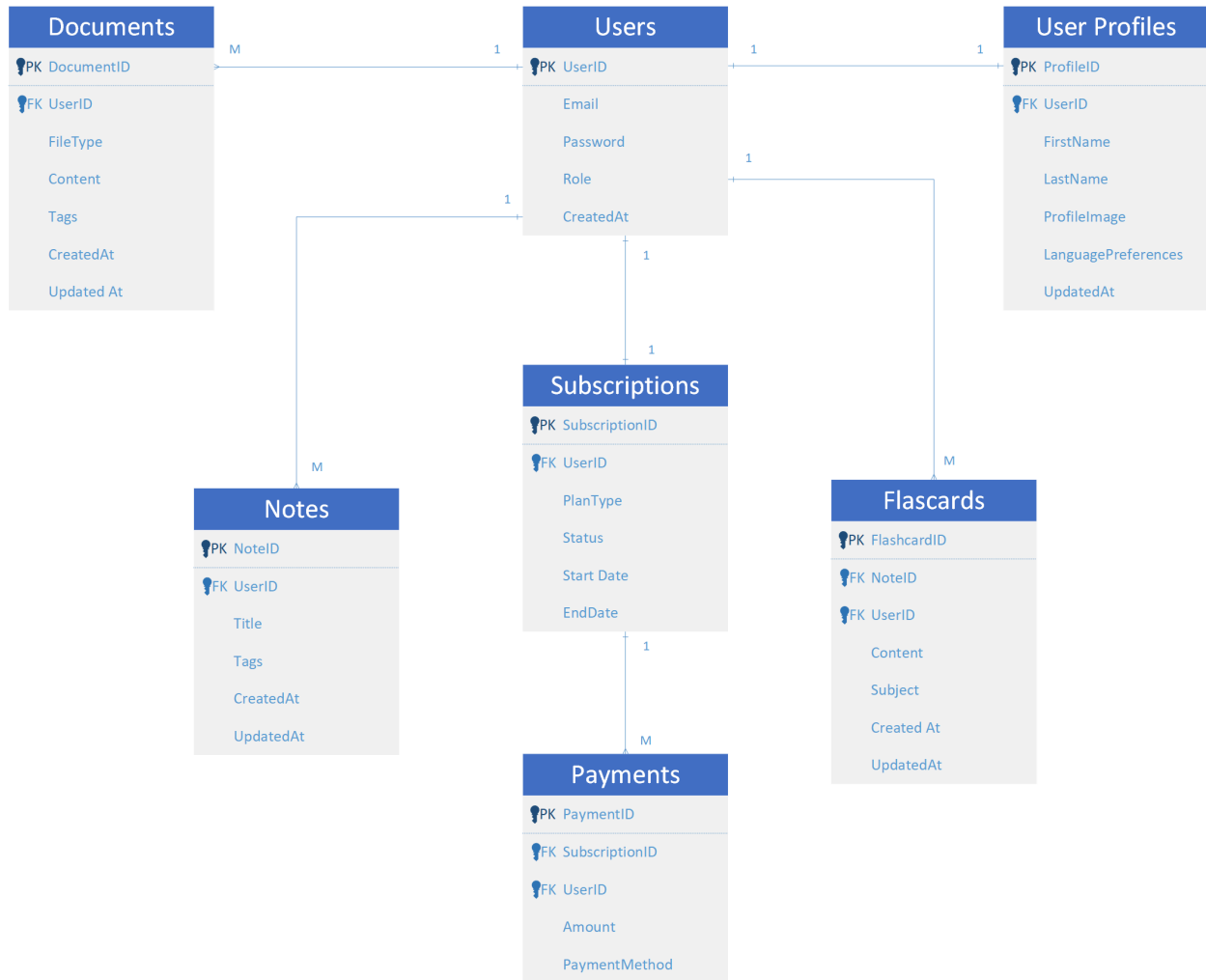
4.1.2. Student



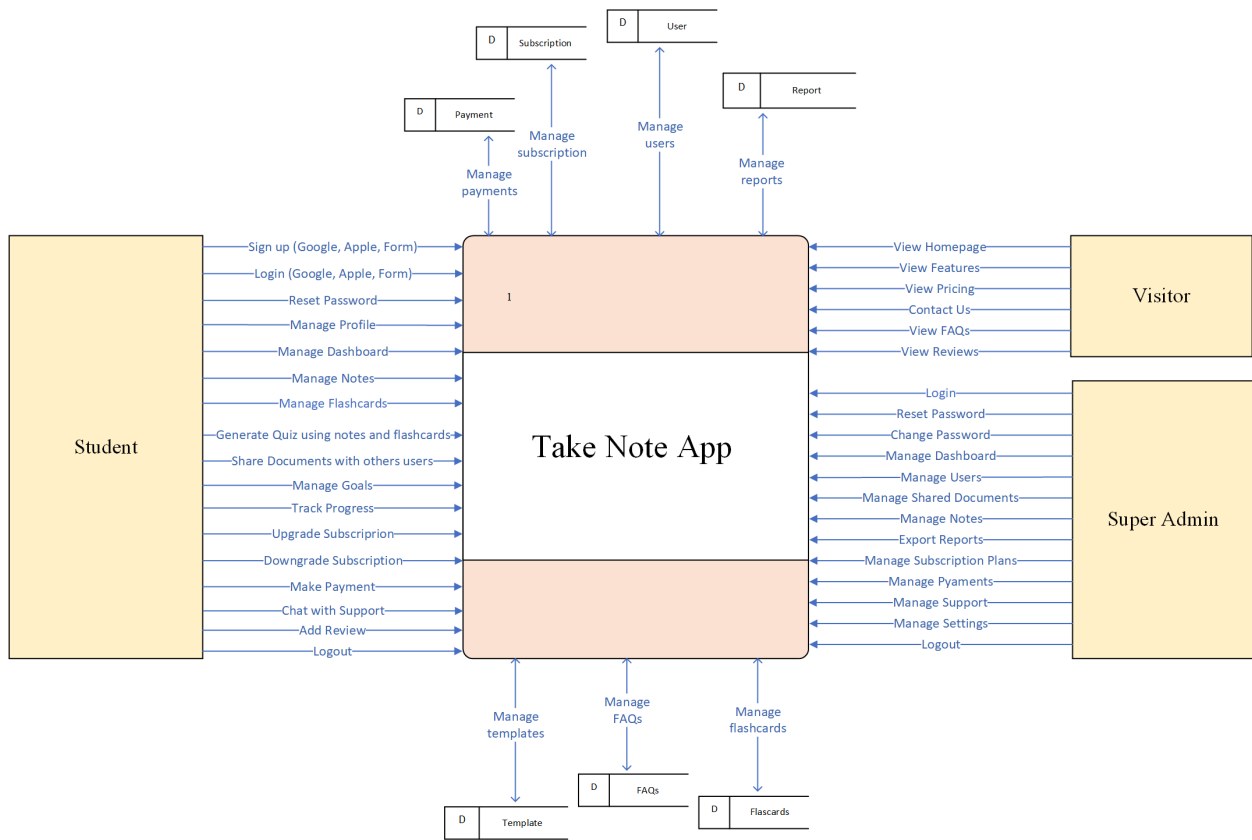
4.1.3. Admin



4.2.ERD

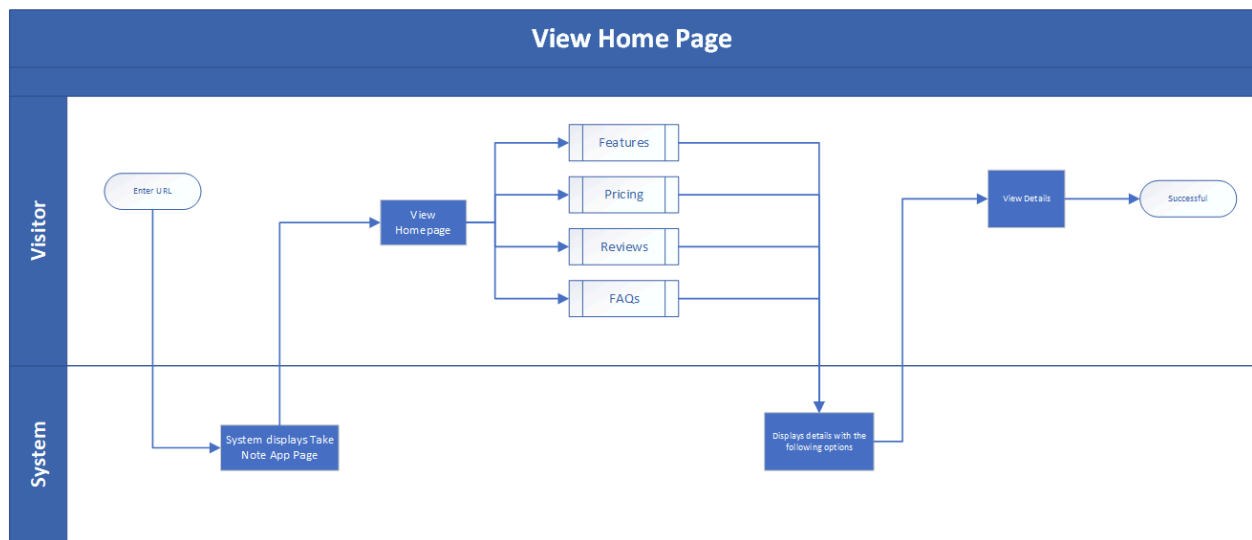


4.3.Context Diagram



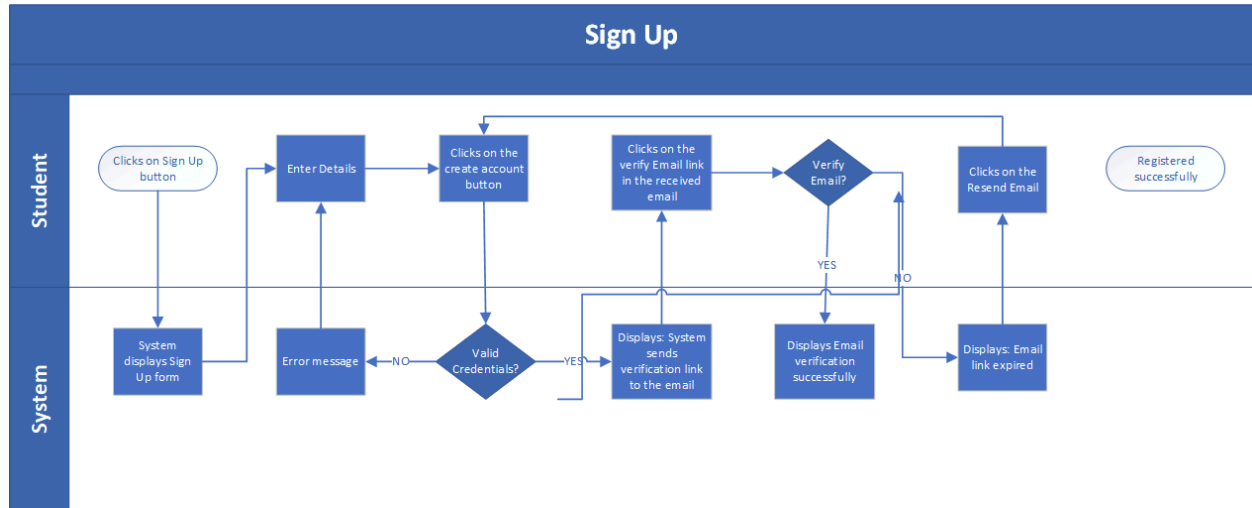
4.4.Process Flows

4.4.1. Visitor

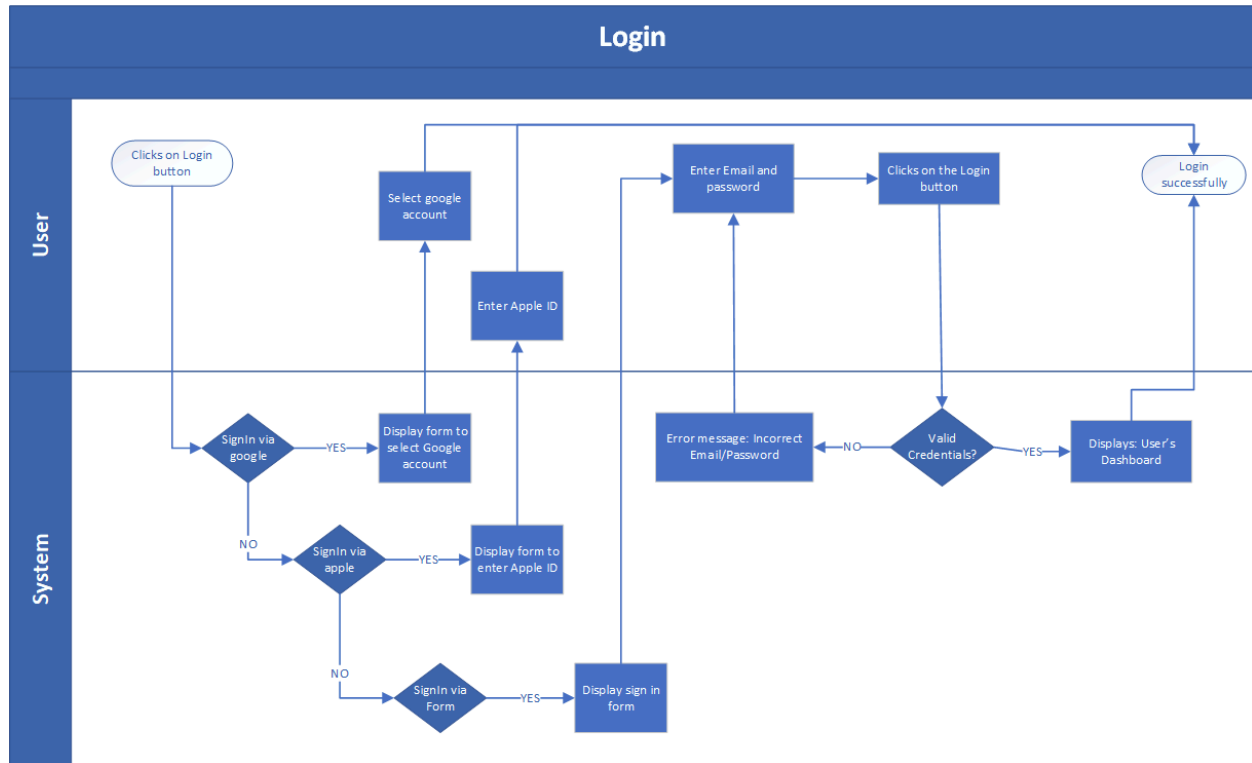


4.4.2. Student

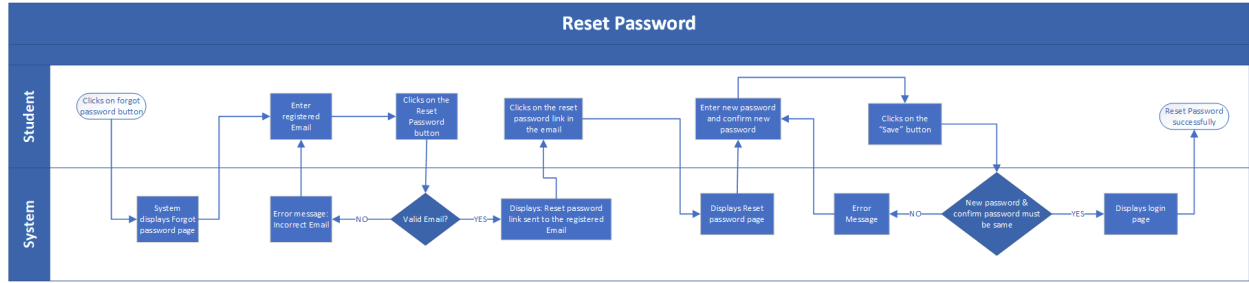
Sign Up



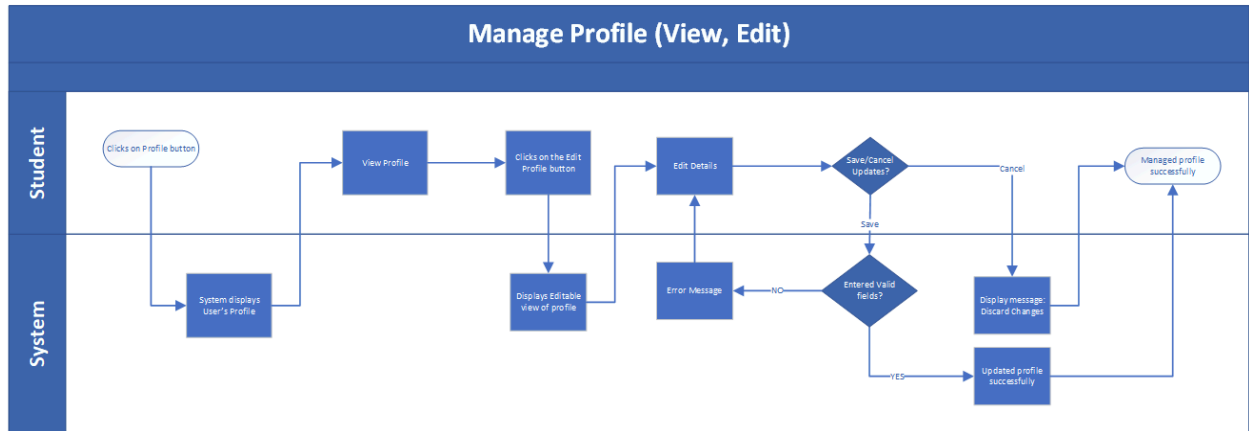
Login



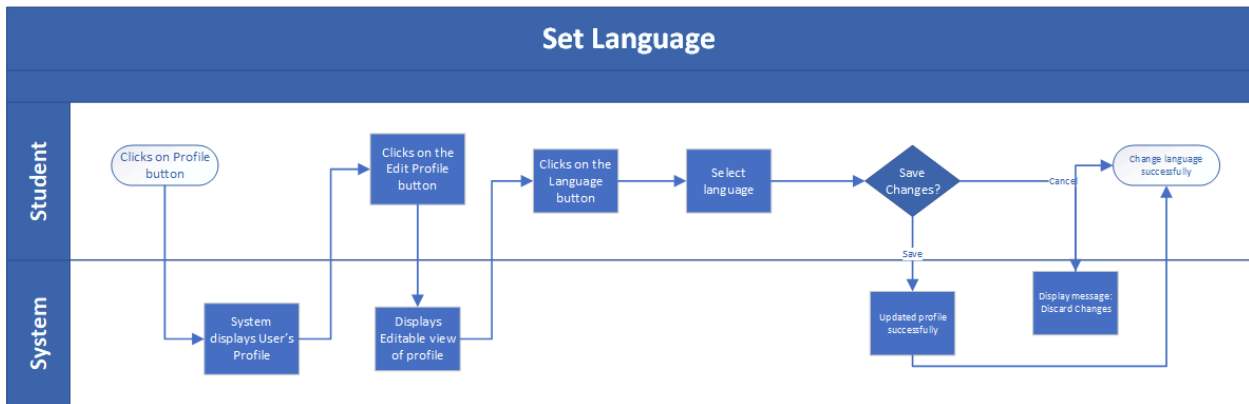
Reset Password



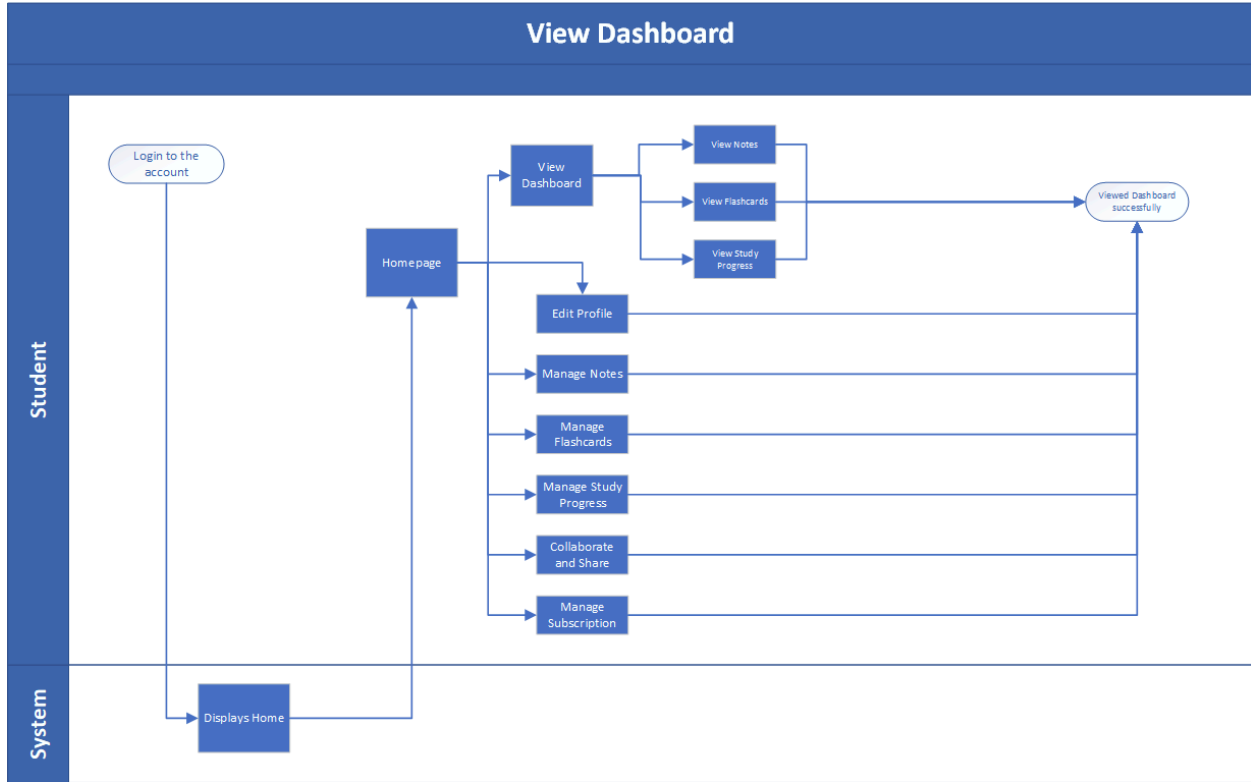
Manage Profile



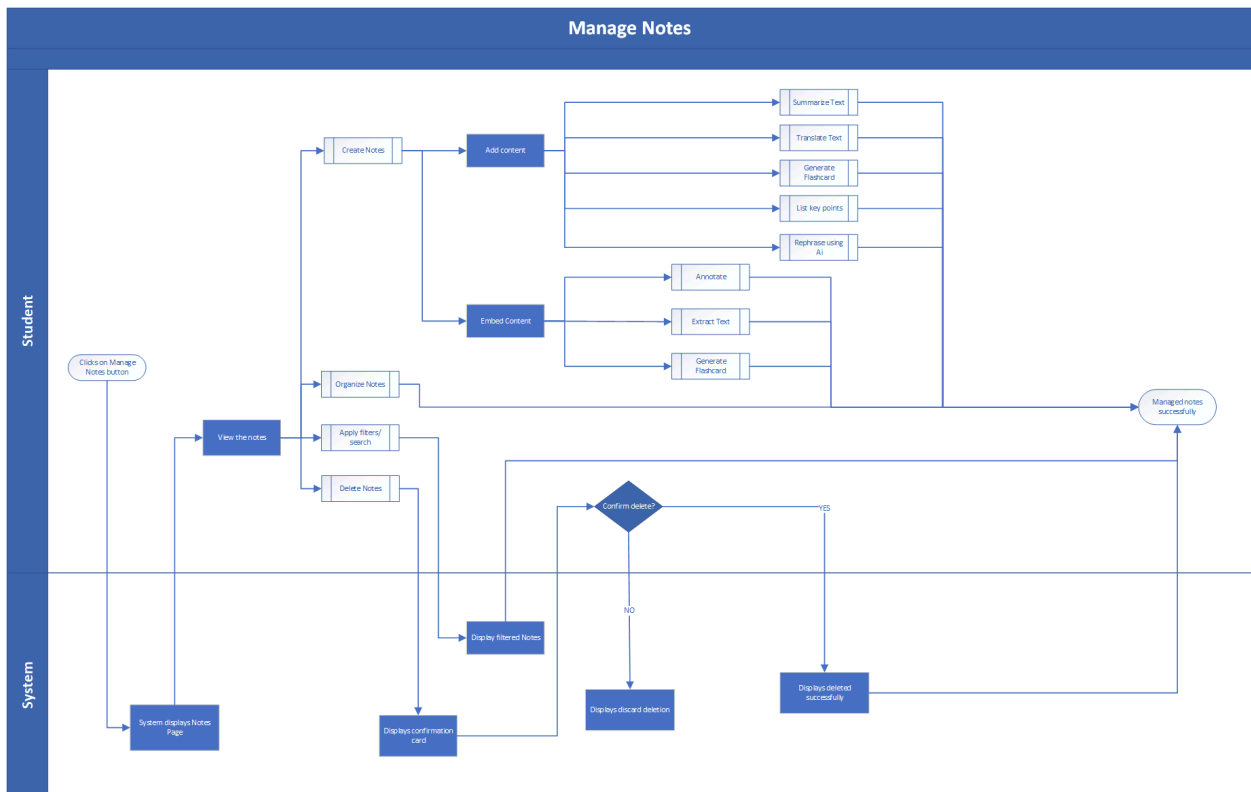
Set Language



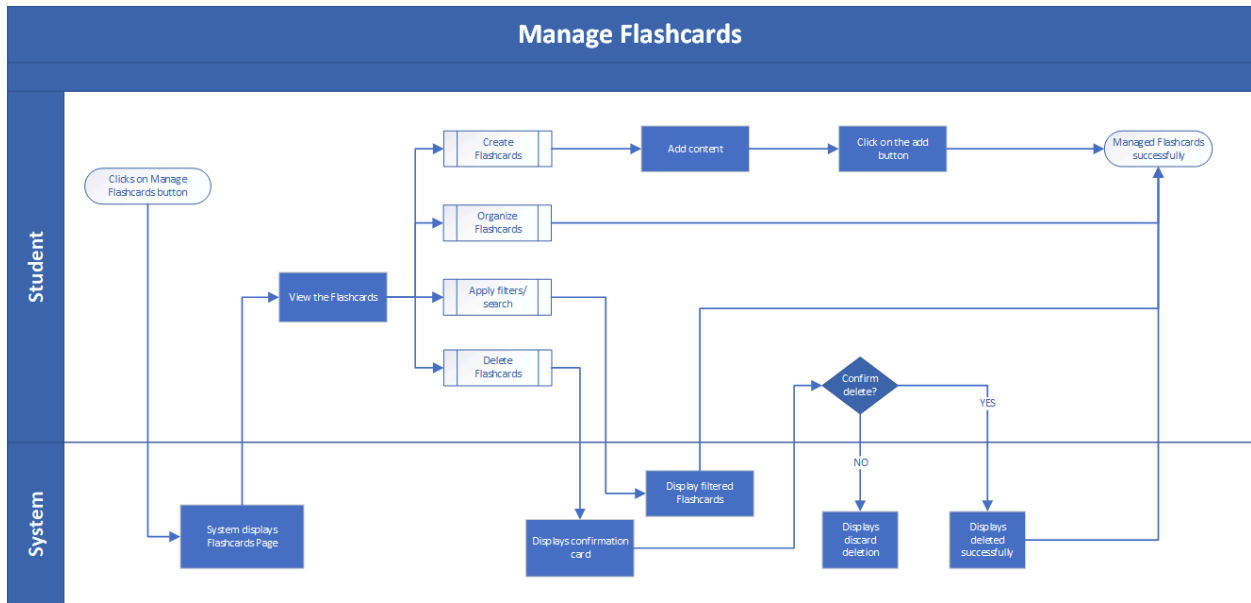
View Dashboard



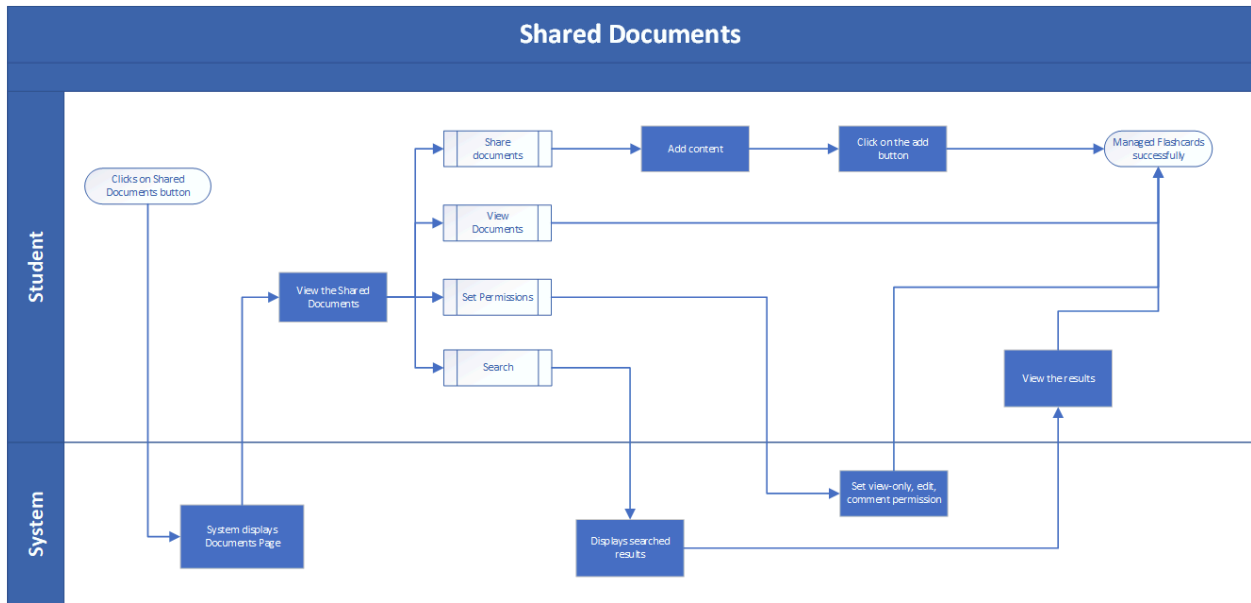
Manage Notes



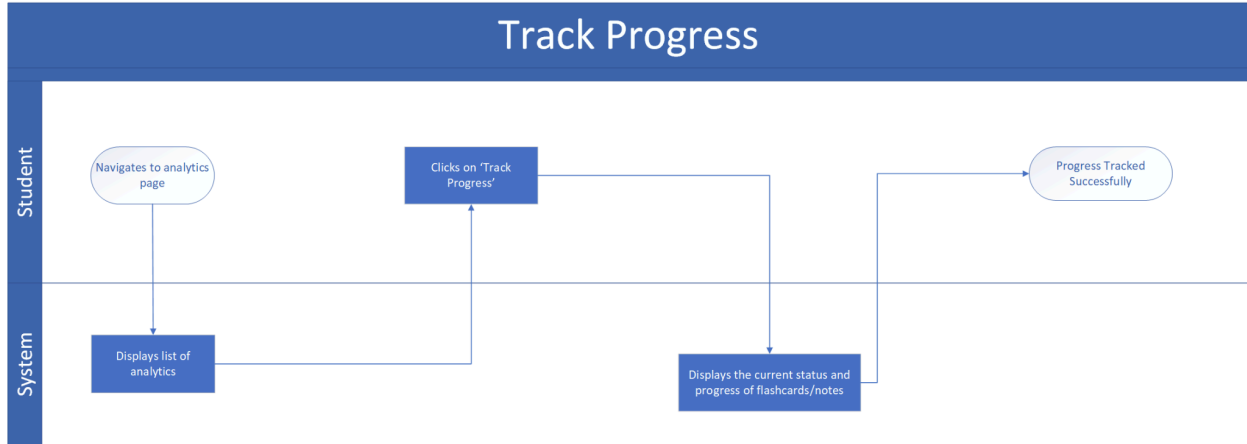
Manage Flashcards



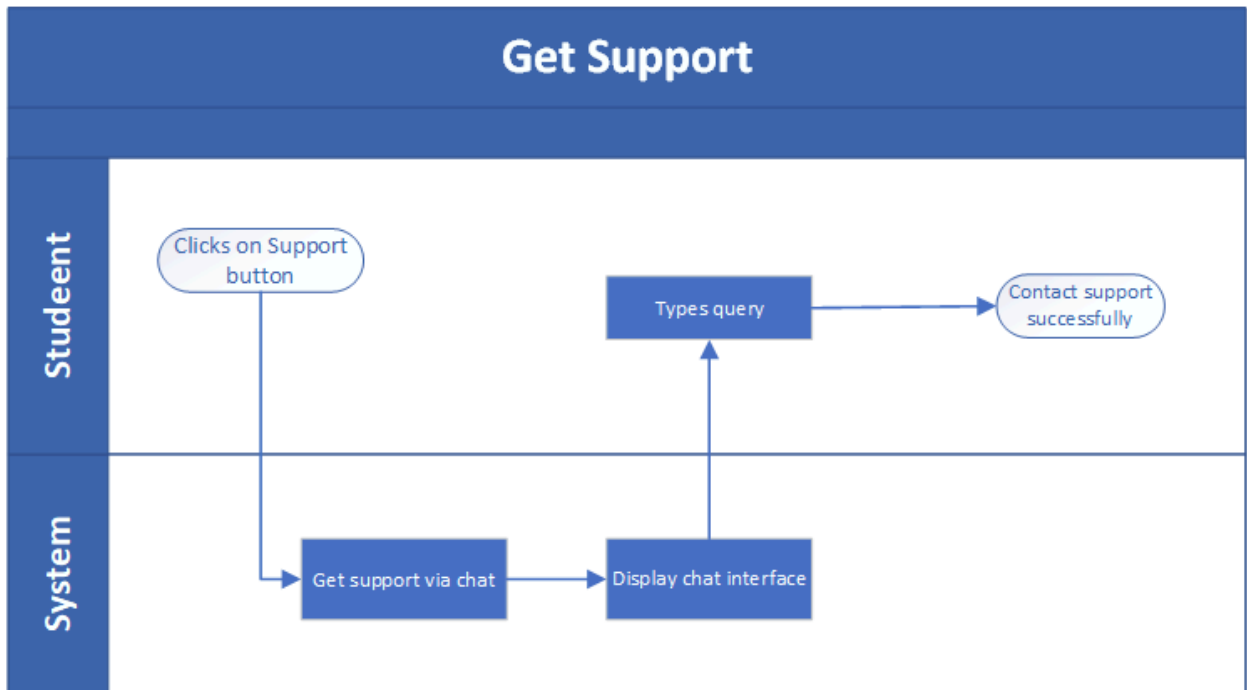
Shared Documents



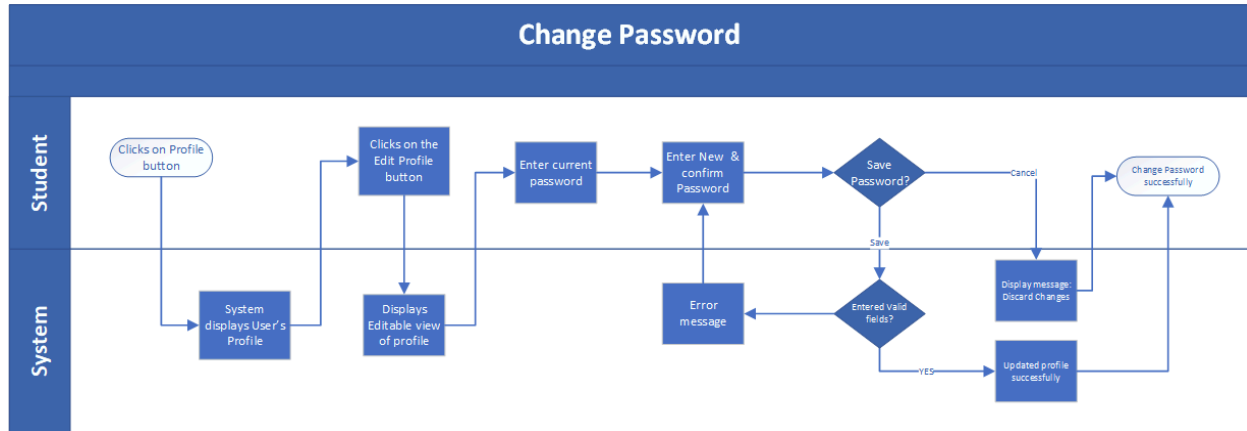
Track Progress



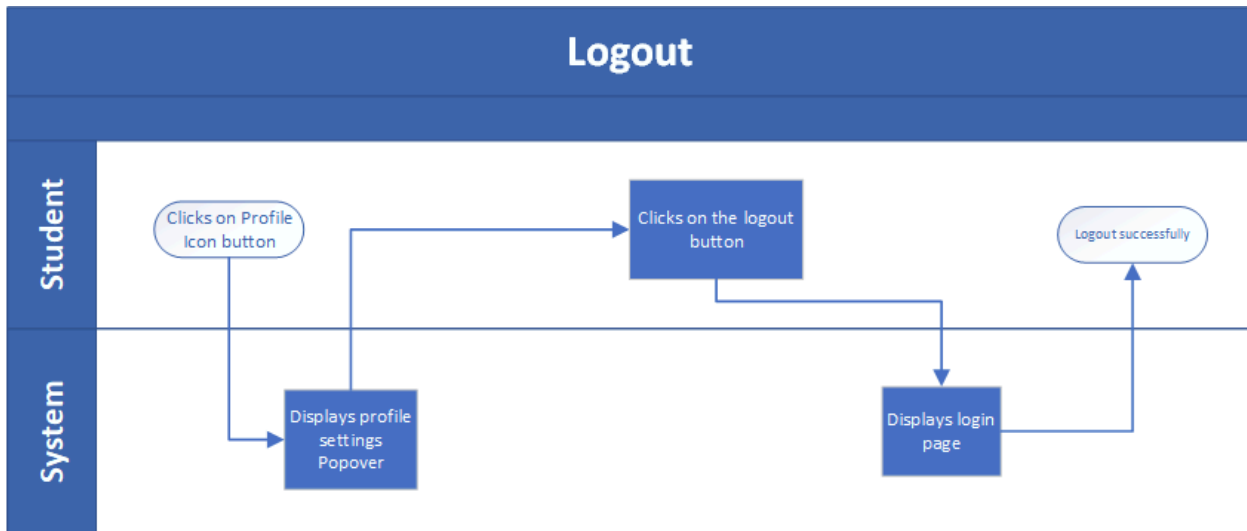
Get Support



Change Password

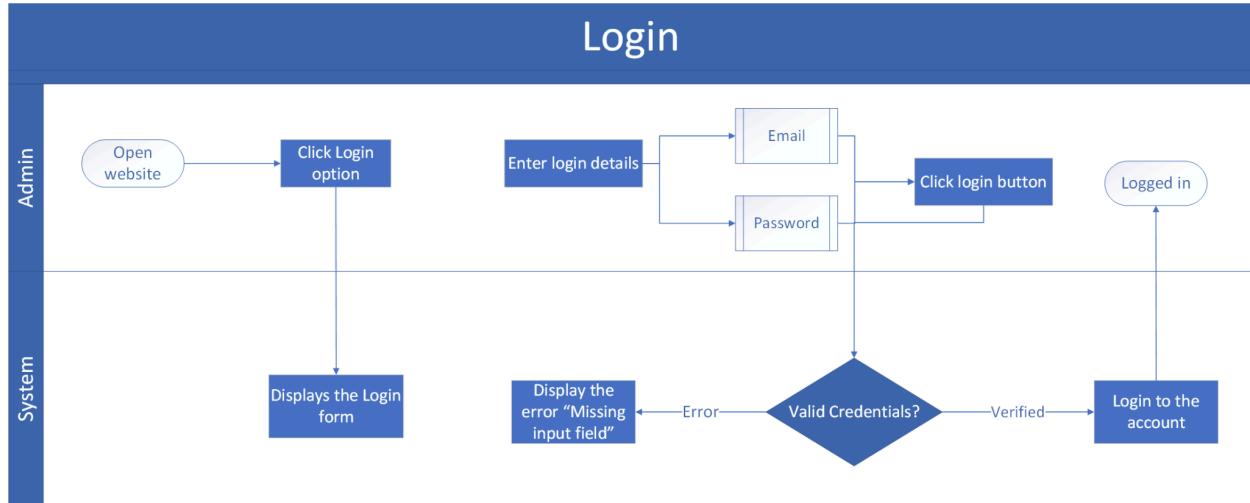


Log out

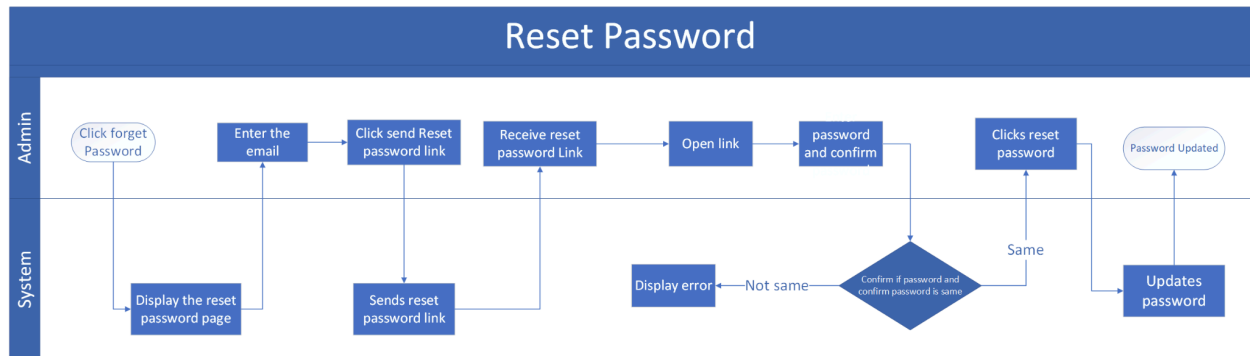


4.4.3. Super Admin

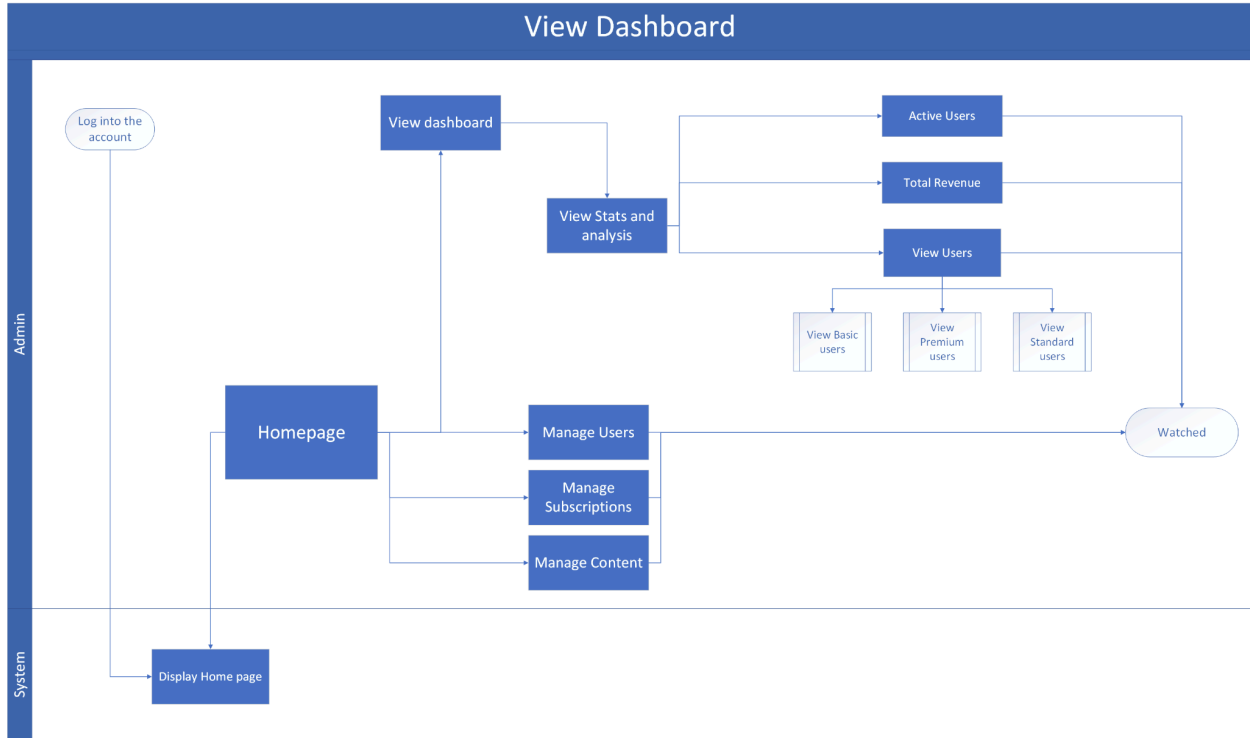
Login



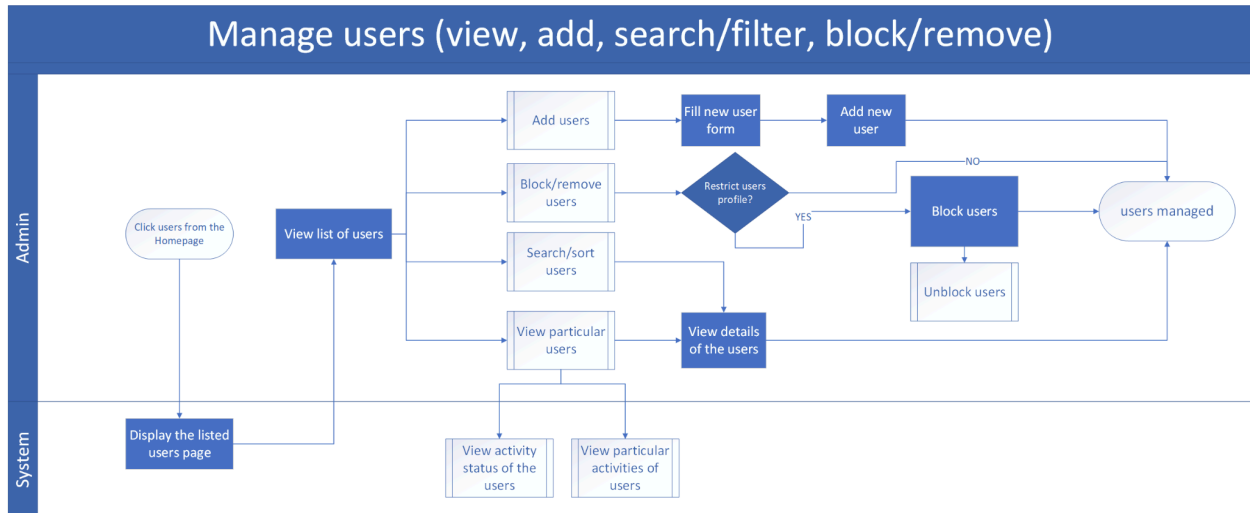
Reset Password



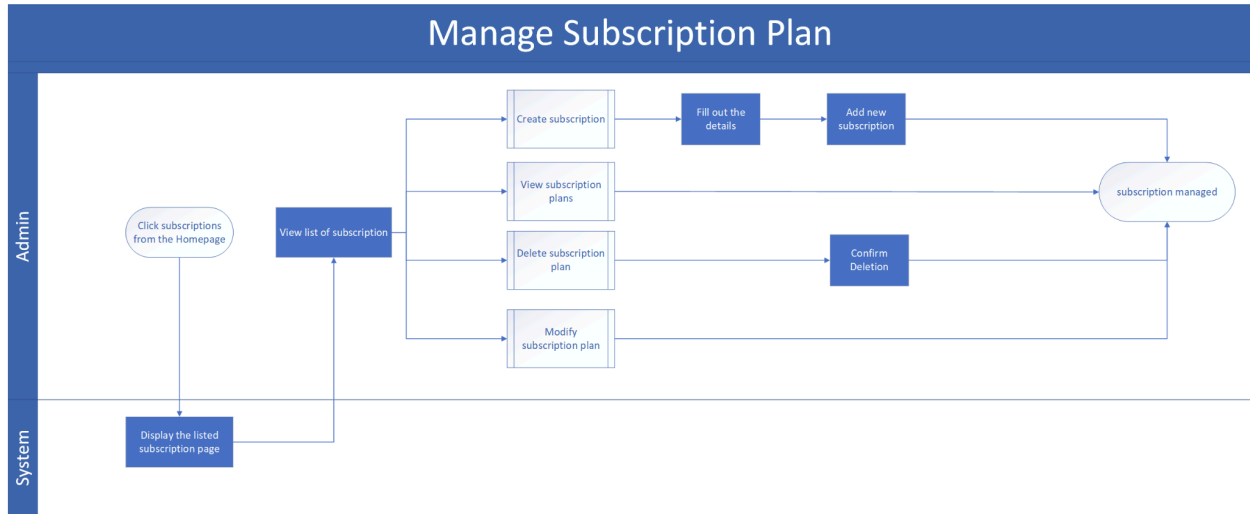
View Dashboard



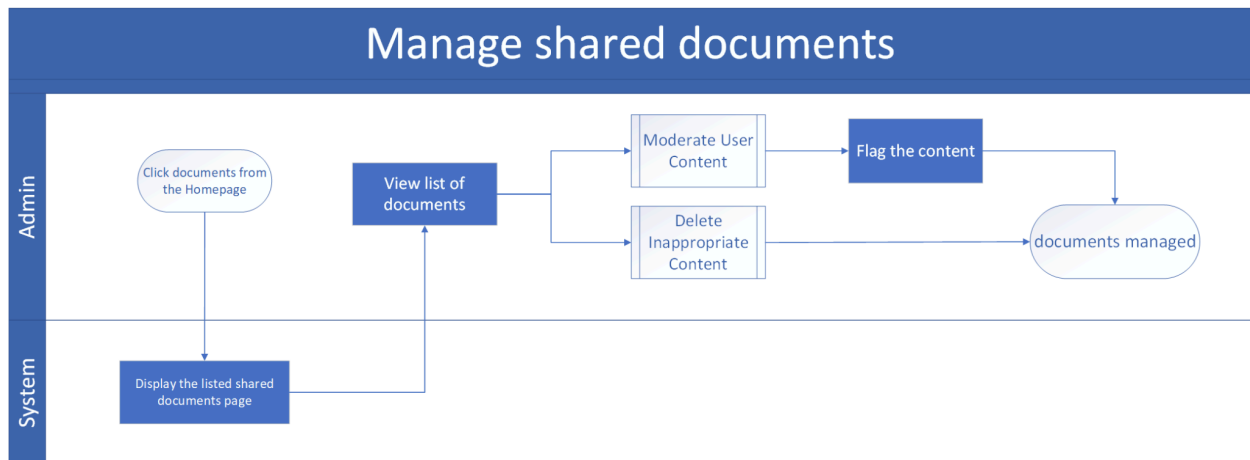
Manage Users



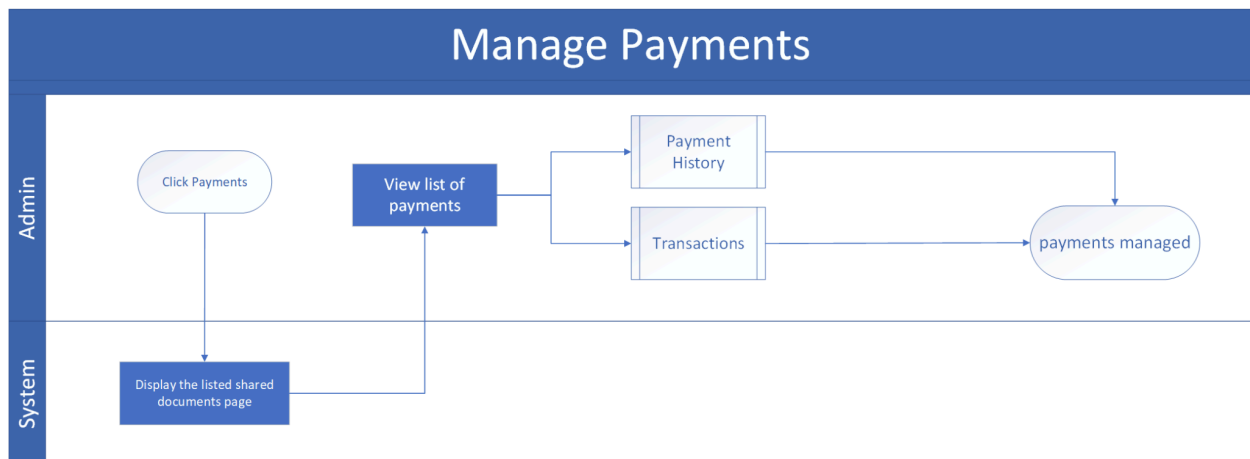
Manage Subscription Plans



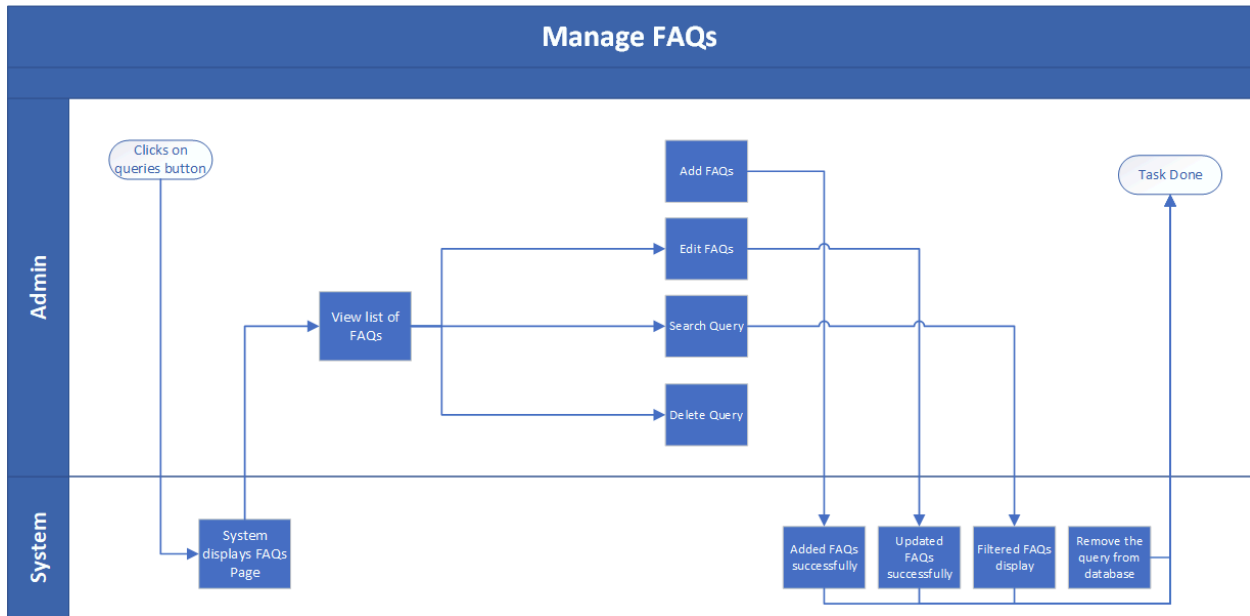
Manage Shared Documents



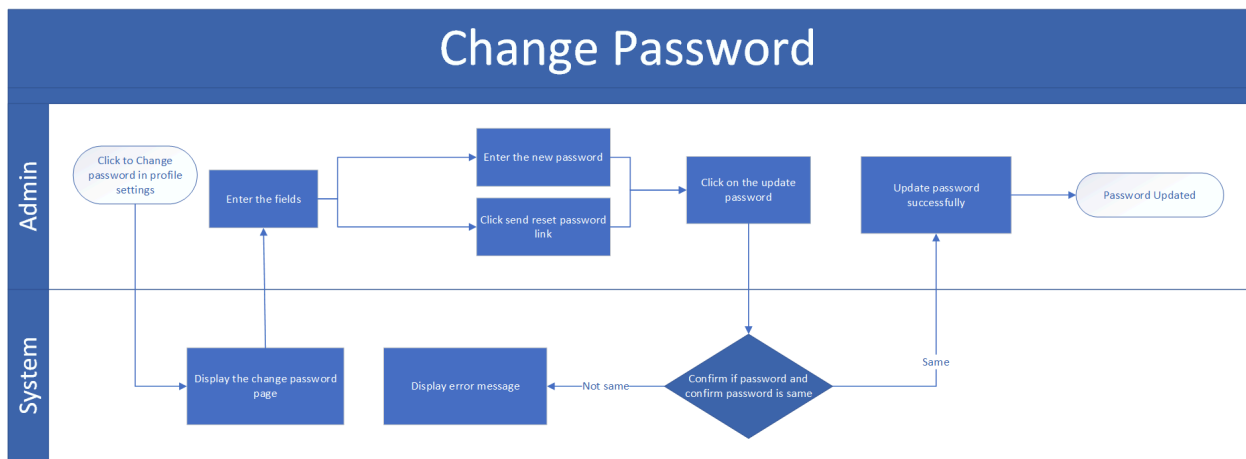
Manage Payments



Manage FAQs



Change Password



Log Out

