Software Requirements Specification Document

Project Name: **Sankalp**
Team: SE_2023 Team 11
Team Members: Karthikeya (CS21B033), Arpit (CS21B062), Manurbhav (CS21B057), Chandradithya (CS21B059), Nandhavardhan (CS21B037)

Brief problem statement:

People with mental health issues and disabilities are often misunderstood and stigmatized, which can lead to them being treated poorly or even discriminated against. This can have a significant impact on their mental and emotional well-being.

This web app could be a valuable tool for raising awareness and promoting understanding of mental health issues and disabilities. The story mode feature can help users to understand the experiences of people with these conditions and how their words and actions can affect them both positively and otherwise. The therapy chatbot feature can provide users with support and guidance on mental health issues. And the sentiment analysis feature (experimental) can be used to track the user's mental state from their social media data and more.

System requirements:

1. MERN Stack (JavaScript),node,mongoDB
2. NPM libraries
   - Server
     - axios
     - bcrypt
     - bing-translate-api
     - cloudinary
     - cors
     - dotenv
     - express
     - jsonwebtoken
     - mongodb
     - mongoose
     - netlify-lambda
     - qs
     - serverless-http
   - Client
     - @fortawesome/free-solid-svg-icons
     - @fortawesome/react-fontawesome
     - @fvilers/disable-react-devtools
     - axios
     - fontawesome
     - gsap
     - lottie-react
     - picomatch
     - postcss-preset-env
     - react
     - react-carousel3
     - react-device-detect
     - react-dom
     - react-icons
     - react-jwt

- react-responsive-carousel
- react-router-dom
- react-scripts
- react-toastify
- swiper
- web-vitals

3. API for News Feed, API for image saving(cloudinary here), API for translation.

Users profile:

The primary users of the system: students, teachers, parents, healthcare professionals, and common citizens
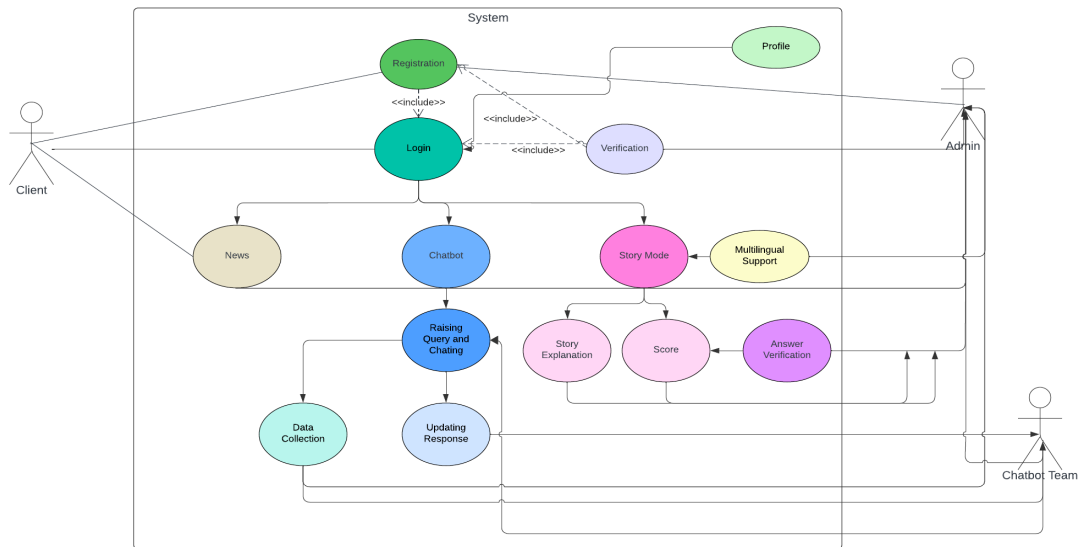
Proficiency required (includes non software):

- Users must be literate, respond appropriately to dialogues.
- Users must be able to use a mouse and a keyboard (optional).
- Users must have basic knowledge and context in this area so as to not follow suggestions blindly in a different context and cause the unintended consequences and to report such instances.

Feature Requirements:

No.	User Story Name	Description	Expected Release
1	Story Mode Start	At the start of a story module, the user will have a module description and their previous progress in this module	1
2	Story Mode Wrong Answer	If any disrespectful option was selected, the app requests user to reconsider or just proceeds by explaining why the option was inappropriate	1
3	User Authentication	Basic login logout register state storage of the user	1
4	Report and Suggestion	For users to contact developers to report and suggest items	1
5	Dark Mode	User customizable Theme (Light/Dark)	1
6	Pick a Profile Pic	Customizable profile pics	1
7	Live News Feed	Recent news on related matters	1
8	Chatbot	Chatbot integration for help in understanding some concepts in this field etc	2
9	User gets Badges	Badges for completion of stories, community, service, positivity	2
10	Multilingual Support	Having language support for basic features	2

Use case diagram: CS21B062 ARPIT GUPTA

Use cases description:

Use Case Number:	UC-01
Use Case Name	Story Mode Start
Overview:	The user starts a story module and is presented with a module description and their previous progress in the module.
Actors:	User
Pre condition:	The user is logged into the web app.The user clicks on a story module to start it.
Flow:	Main (success) Flow: 1.The system displays a module description and the user's previous progress in the module. 2. The user clicks on the "Start Story" button to begin the story. 3. Conversation starts, and each user selected dialogue is evaluated
	Alternate Flows: If the user has not logged into the web app, the system displays a login prompt, if the user does not have any previous progress in the module, the system starts the story from the beginning.
Post Condition:	The module will be closed and the user information is updated.

Use Case Num:ber:	UC-02
Use Case Name	Story Mode Wrong Answer
Overview:	The user starts a story module and is presented with a module description and their previous progress in the module and the user selects an incorrect option .
Actors:	User
Pre condition:	The user in story mode selected a incorrect option
Flow:	Main (success) Flow: 1.The system displays doctor sankalp giving explanation 2. Then system redirects to same question with previous option grayed out and score for this question is calculated from the chosen incorrect option
	Alternate Flows: NIL
Post Condition:	User is redirected back to Story Mode Situation.

Use Case Number:	UC-03
Use Case Name:	User Authentication
Overview:	The user logs in to the web app.
Actors:	New registrants or Old Users
Pre condition:	The user is on the web app login page.
Flow:	1.The user enters their username and password in the login form. 2.The system authenticates the user credentials. 3.If the credentials are valid, the system logs the user in and redirects them to the home page. 4.If the credentials are invalid, the system displays an error message to the user.
	Alternate Flows: If the user does not have an account, they can click on the "Create Account" link to create an account. If the user forgets their password, they can click on the "Forgot Password?" link to reset their password.
Post Condition:	User is logged in to the web app

Use Case Number:	UC-04
Use Case Name:	Report and Suggestion
Overview:	For the users of the application to report any bug mistranslation.. etc.
Actors:	User
Pre condition:	User is logged in.
Flow:	1. User reports or suggests some issue 2.The issue is noted by Admin or Respective team
Post Condition:	Users issue is completed or is ignored if spam.

Use Case Number:	UC-05
Use Case Name:	Dark Mode
Overview:	The user selects between light and dark mode for the web app user interface.
Actors:	User
Pre condition:	The user has logged in. The user is on the web profile page.
Flow:	1. The user toggles between themes with a fun, interactive feature (TBA) 2. The app refreshes and the user interface is displayed in the selected mode
	Alternate Flows: 1. NA
Post Condition:	The app user interface is displayed in the selected mode.

Use Case Number:	UC-06
Use Case Name:	Custom Profile Pic
Overview:	User can use their own profile pic in the Profile Page
Actors:	User
Pre condition:	User must be logged in
Flow:	Main (success) Flow: 1. After logging in, go to the profile page. 2. Click on the current profile pic, and you will get an option to edit. 3. Select profile pic from gallery
	Alternate Flows: 1. Might not be able to connect to the phone's gallery. Try again. 2. Users can also edit their name or bio.
Post Condition:	User's profile pic is updated

Use Case Number:	UC-07
Use Case Name:	Related News
Overview:	Latest News related to mental health issues will be displayed to all users
Actors:	User
Pre condition:	The user must be logged in. This is displayed on the home page.
Flow:	Main (success) Flow: 1. When the user logs in, they are defaulted to the home page. News will be shown on a carousel there. Click on any one. 2. This takes you to a 'blog' page that displays the description (2-3 lines) of the news article. It will have a link that you can click to go to the source.
	Alternate Flows: 1. If there's no internet, you will not be able to go to the source.
Post Condition:	User has gone to the blog page

Use Case Number:	
Use Case Name	Chatbot
Overview:	The user interacts with the chatbot to get help understanding concepts or get support on mental health issues.
Actors:	User
Pre condition:	The user is logged into the web app. The user clicks on the chat feature button to start it.
Flow:	Main (success) Flow: 1.The user opens the chatbot window. 2.The user types a question or message in the chatbot window. 3.The chatbot responds to the user's question or message. 4.The user can continue interacting with the chatbot until they are finished.
	Alternate Flows: The user can exit the chat mode. If inappropriate input was given chatbot can request the user to reenter his query/response
Post Condition:	The user has received the help they need or has given up using the Chatbot

Use Case Number:	UC-09
Use Case Name:	Badges
Overview:	Badges are given to the user on completion of stories, like achievements
Actors:	Users
Pre condition:	The user has logged in, and finished the required number of stories for a badge
Flow:	1. Complete a story in the story mode 2. Based on an achievement threshold, a badge is given
	Alternate Flows: 1. Even if a story is finished, the user did not cross the required story completion threshold. So no badge yet.
Post Condition:	User has completed the required threshold for a badge

Use Case Number:	UC-10
Use Case Name:	Multilingual Support
Overview:	The user can change everything to their preferred language (initially will be from some predefined ones)
Actors:	User
Pre condition:	The user has logged in

Flow:	1. Go to the Profile Page 2. Click on the language button, which shows the current display language (default: English) 3. Select one from the dropdown
	Alternate Flows: 1. If display language not changed, try again
Post Condition:	User's display language has changed