MINISTRY NAME : Ministry of Education
TEAM NAME : underCTRL
TEAM LEADER NAME : Aman Sirohi

DOMAIN BUCKET : Smart Education
PROBLEM STATEMENT : Mental health and well-being surveillance, assessment and tracking solution among children.

PROBLEM CODE : SIH1433
CATEGORY : Software
COLLEGE CODE : C-46141

MANOBAL- Strengthening Mental Health

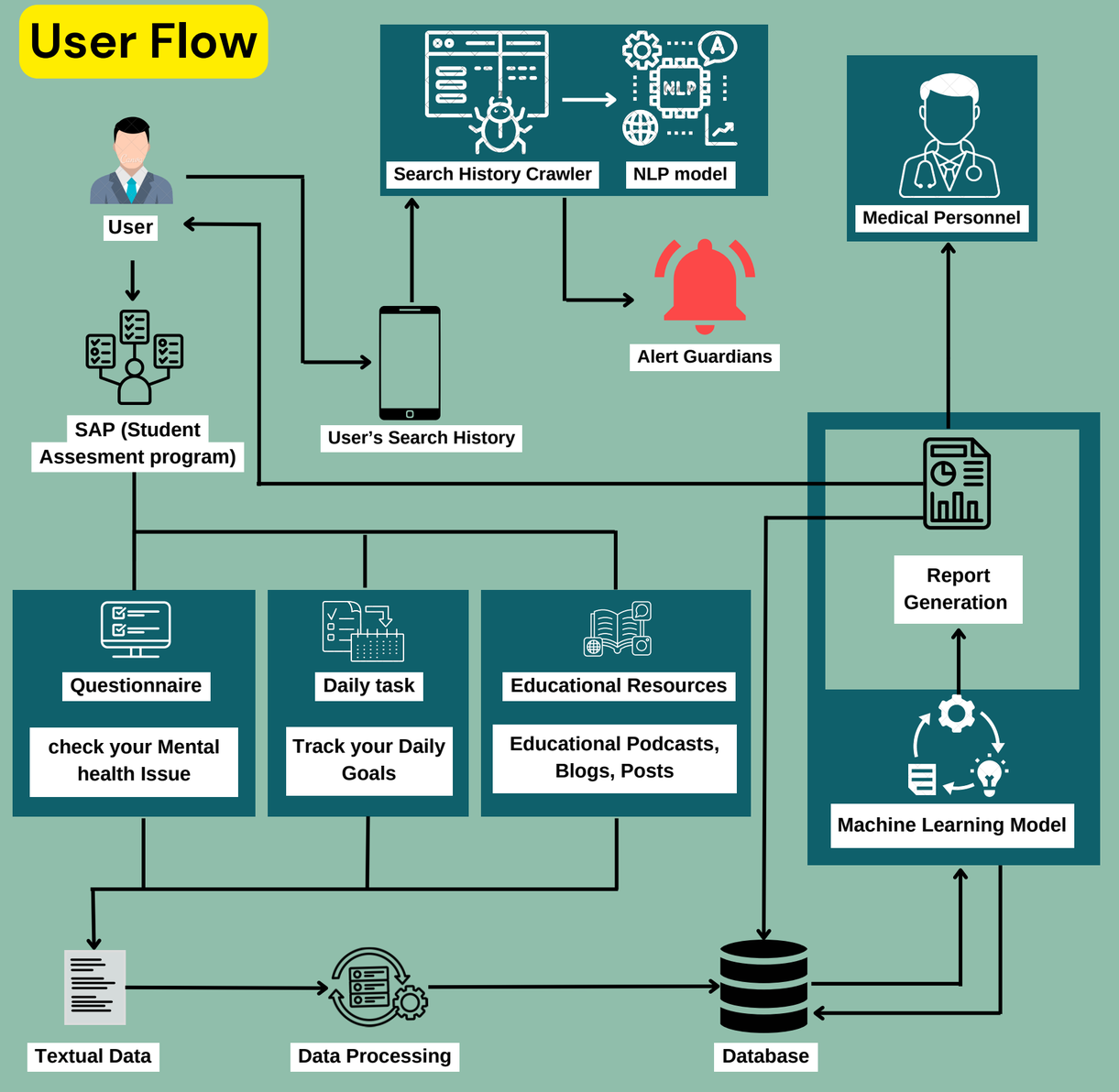
Features

- Crawls user's web history for identifying mental health issues or suicidal thoughts and generate alerts.
- Specific questionnaires for every mental health state.
- Research based questions for every age group of students.
- Data-driven insights offers more personalized and effective treatment.
- Allows users to monitor progress, journal, and set goals.
- Allows for the early detection of potential mental health issues.
- Effective ML model to identify susceptible trends and issues.
- Offers immediate consultations for distressed users.
- Reducing the stigma associated with seeking help.
- Personalized recommendations and resources tailored to their needs.

Technology Stack

Frontend:	Backend:	ML Model:
React, Redux, React Native, Material UI	Node.js Express.Js	Python, Flask
	Database: MongoDB	

User Flow



Student Assesment Program (SAP)

SAP (Student Assesment program)

Questionnaire

Check your mental health status & know the issues

Daily Task

Track your Daily Goals & customize them According to your need

Solutions

Educational podcasts , Blogs, posts & various other Methods

Based on your task completion Earn badges and show it on your profile

If the marks are very low it will instantly suggest you professionals and Healthcare Experts for immediate Actions

Based on marks system will suggest you resources

Model

Generates reports based on the user data

Report getting stored in the database

Database

Textual and Preprocessed Data

Mental State Analysis Model

Mental State Database

Data Preprocessing

Stop word Removal

Punctuation and Special Character Removal

Tokenization

Feature Extraction

Training Set

Testing Set

Machine Learning And Neural Network Approach

Evaluation

Depression Detection Model

Analyzing and Predicting Process

Depression Detection

RESULT

Data will be visualized on the Portal in form of Reports.

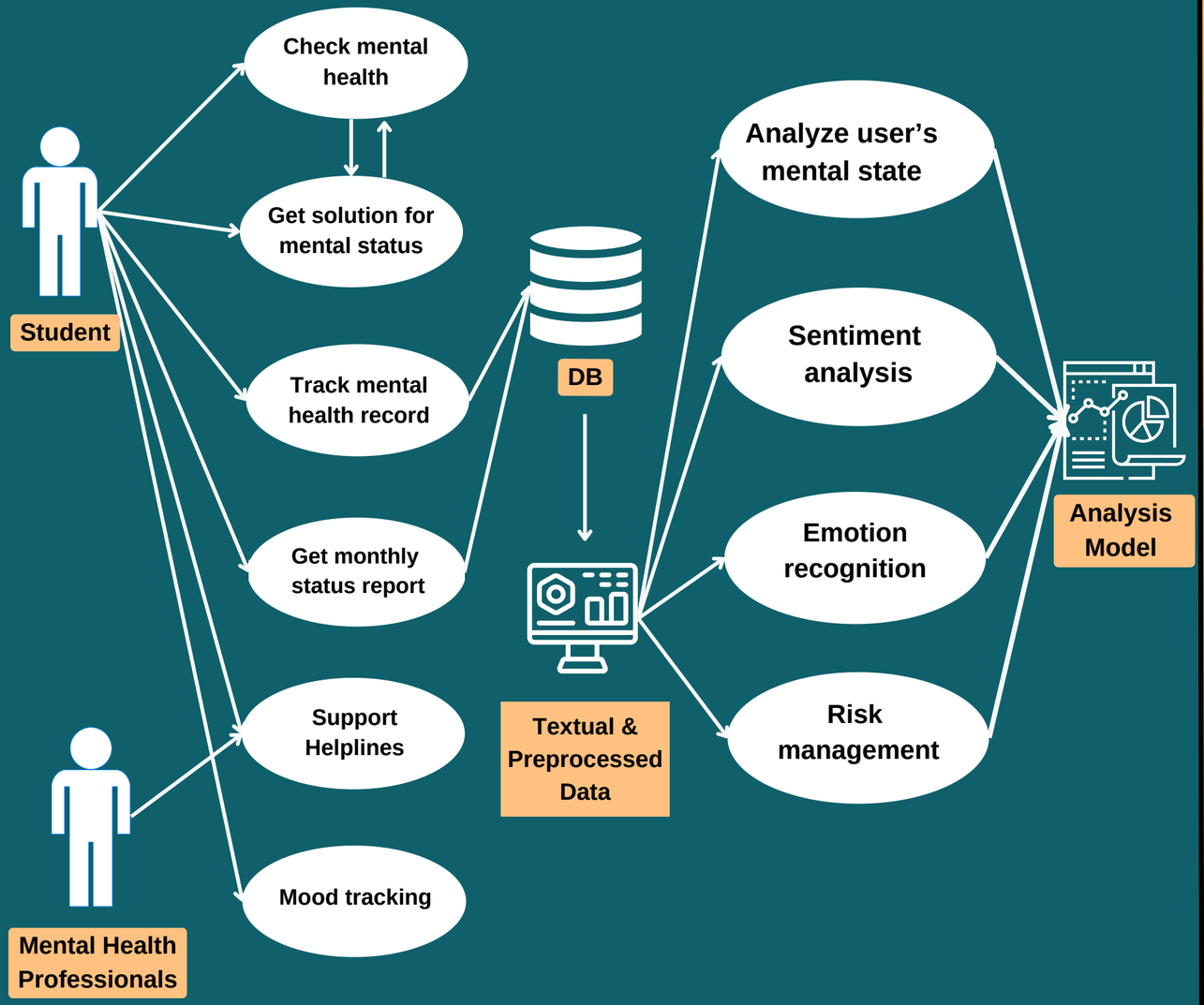
Through SAP

Visualize on Portal

Students

Psychologist

User Case



Additional Features

- Parent and Guardian Portal.
- Education and Resource Hub.
- Data Analytics and Reporting.
- Secure Communication and Telehealth integration.
- Real Time Updates.
- Data Storage and retrievals.
- The Range of the Product can be increased To the working class as well.

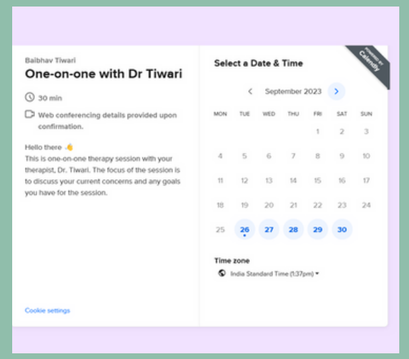
3rd Party Tools

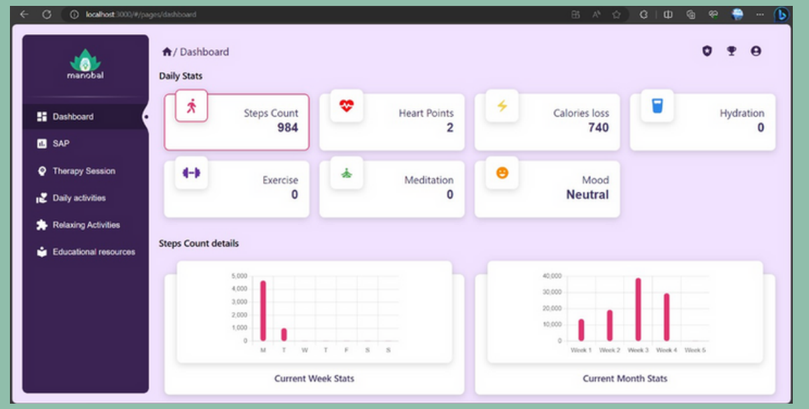
- Google Fit API
- Calendly API
- Google Authentication

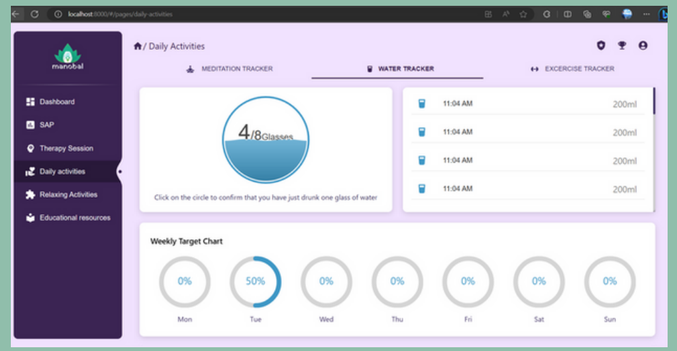
ML / AI

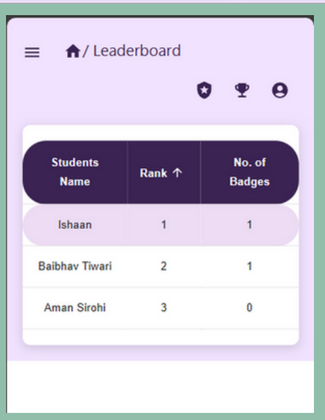
- Sentiment Analysis.
- Natural Language Processing.
- Text Mining

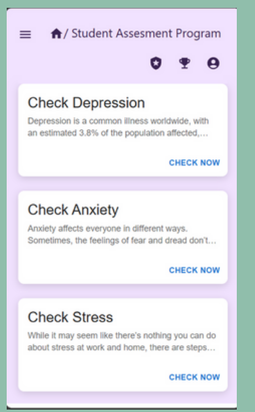
User Interface











Prototype Link

https://github.com/Ishaan2053/Manobal