

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Student Innovation

PS Code: SIH1492

Problem Statement Title: Development and Implementation of a Comprehensive Integrated Health Awareness System App

Team Name: Brainstorm Brewers

Team Leader Name: Rishi Banerjee

Institute Code (AISHE):

Institute Name: KIIT University

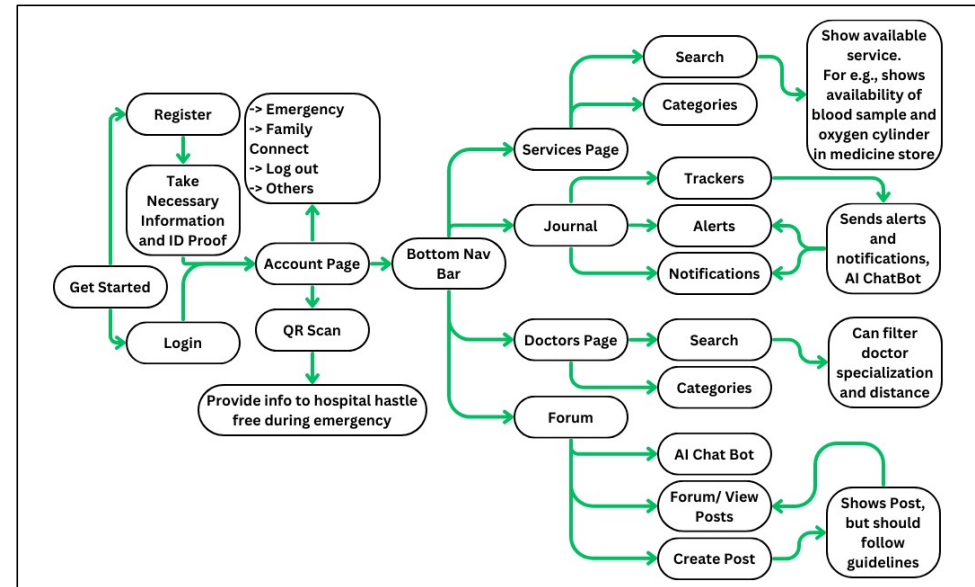
Theme Name: Awareness system

Idea/Solution

We seek a solution for an **application** that offers **personalized health guidance**, bridging the gap between physical and mental health, catering to **diverse health needs**.

Key features of the project include overall health assessment, personalized recommendation on health, mental health support, appointment scheduling with the nearest doctor.

- **UI/UX Design**, Dashboard for health tracking and assessments.
- Using **databases** to store user's profile **data** and information on nearby doctors, hospitals, medicine shops, ambulances, etc. **Emergency supplies** (Oxygen, Blood Sample, etc.) availability in shops will be shown.
- **Integrate APIs** from wearable devices (e.g., Fitbit) for **health data**.
- Integrate a **Content Management System (CMS)** for health education resources.
- Implement **chatbot integration** using **AI/ML** (using **NLP** capabilities tools).
- Comply with the **relevant regional laws** (for eg **HIPAA**).
- Develop **gamification** features like challenges, rewards, and badges to motivate users.



Technology Stack:



Idea/Approach Details

Use Cases

1. **User Logs in** using their credentials.
2. **Access Health Assessment:** The user chooses the health assessment option on the app's dashboard.
3. **Health Assessment Form:** The app offers a health assessment form, assessing physical and mental health, including activity, diet, sleep, stress, mental health concerns, and existing medical conditions or medications.
4. **User Input:** The user responds to assessment questions by selecting options from predefined lists, entering values, or providing additional information.
5. **Data Analysis:** The app analyzes user data after submitting a health assessment form, considering their unique profile, preferences, and health goals.
6. **Personalized Recommendations:** The app provides personalized health recommendations, including fitness routines, dietary guidelines, stress management techniques, and educational resources for users.
7. **Presentation of Recommendations:** The app provides personalized recommendations on the dashboard, with notifications sent to inform users about their availability.

Show stopper

1. Implemented **Robust Encryption and Security measures** to protect user's sensitive data.
2. Given high focus on **user experience and satisfaction** to stand out.
3. Reliable and Compatible **APIs** are used.
4. Implemented **offline functionality** to allow users to access essential features and previously downloaded content without internet.
5. Developed a **synchronised strategy** to update data when a network connection is delayed.
6. Enriching **forums and support groups** experience.
7. Maintaining a flexible architecture that allows for **future technology update**.
8. **Multilingual support** of 32 languages nationally and 60 languages world-wide.
9. **Efficient cross device support**, i.e., works perfectly for feature phones, IOS and android.
10. **Competent feedback mechanism** for the system's continuous improvement.

Team Member Details

Team Leader Name: Rishi Banerjee

Branch (Btech)

Stream (CSE)

Year (II)

Team Member 1 Name: Shreeya Das

Branch (Btech)

Stream (CSE)

Year (II)

Team Member 2 Name: Ayush Ranjan

Branch (Btech)

Stream (CSE)

Year (II)

Team Member 3 Name: Harshit Ghosh

Branch (Btech)

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Year (II)

Team Member 4 Name: Jyotika Jayani

Branch (Btech)

Stream (CSE)

Year (II)

Team Member 5 Name: Ananya Sahoo

Branch (Btech)

Stream (CSE)

Year (II)

Team Mentor 1 Name: Type Your Name Here

Category (Academic/Industry):

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years):

Team Mentor 2 Name: Type Your Name Here

Category (Academic/Industry):

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years):