

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: Government of Kerala

PS Code: SIH1325

Problem Statement Title: AI Assisted Tele-medicine KIOSK for Rural India

Team Name: MEd Coders

Team Leader Name: Sudhanshu Kumar

Institute Code (AISHE): U-1080

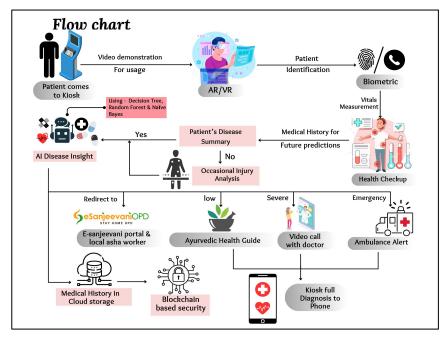
Institute Name: C. V. Raman Global University, Bhubaneswar, Odisha

Theme Name: Agriculture, Food-Tech & Rural Development

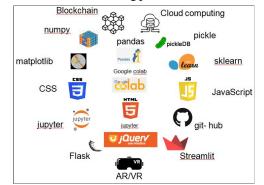
Idea/Approach Details

Idea/Solution

- The Kiosk is available in most of the **regional languages** making it **multilingual**.
- **Biometric** verification via phone no. or fingerprint.
- **Machine Learning** algorithms can be used to improve the accuracy of symptom analysis, image recognition and continuous improvement in **diagnosis**.
- **Medical history** is stored in **cloud** future use which can be shared to all authorized hospitals.
- **AI interaction** with users to gather information about their health issues.
- Facilitate **appointments with doctors** via the e-sanjeevani App.
- **IoT sensors** can measure vital signs like blood pressure and glucose levels and can help in remote analysis.
- Dispensation of **Ayurveda** medications.
- Although still in infancy, quantum computing has the potential for advanced data analysis and encryption that can benefit your kiosk's security and processing capabilities.
- **Edtech** solutions can be integrated into the kiosk to provide educational content on health issues.
- Strong Blockchain Cybersecurity system to protect patients' data.



Technology Stack



Idea/Approach Details

Use Cases

- The KIOSK retrieves the user's past medical records to share them with authorized hospitals or doctors.
- Eco-friendly power solutions, such as solar panels for uninterrupted operations in areas with unreliable power.
- It can create job opportunities for locals as operators, technicians, and community health workers, contributing to rural development.
- In India 4.5 crore people travel daily via flights, trains, and buses. Setting up kiosks in these locations, with just 1% daily usage at a minimum charge of Rs. 10 per use, could generate approximately 10 crores in monthly income.

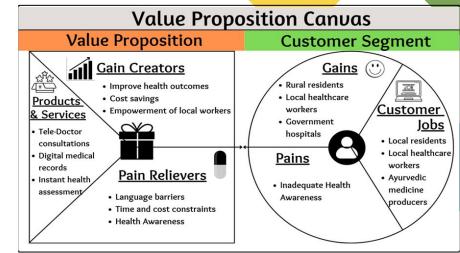
Dependencies/Showstopper

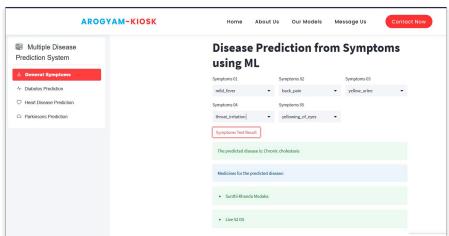
- Kiosk hardware with a computer.
- Reliable internet access
- Integration with the e-sanjeevani App and telemedicine platforms for remote consultations.

Outcomes & Impact

- Bridging the gap between doctors and rural people.
- Improved healthcare and awareness in villages.







Team Member Details

Team Leader Name: Sudhanshu Kumar		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): III
Team Member 1 Name: Ankur Kumari		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): III
Team Member 2 Name: Aniketa Das		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): III
Team Member 3 Name: Aman Ujwal Toppo		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): III
Team Member 4 Name: Riya Pati		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): III
Team Member 5 Name: Himanshu Kumar Singh		
Branch (Btech/Mtech/PhD etc): Btech	Stream (ECE, CSE etc): CSE	Year (I,II,III,IV): IV
Team Mentor 1 Name: Dr. Tusar Kanti Dash		
Category (Academic/Industry): Academic	Expertise (AI/ML/Blockchain etc): Speech Process	ing Domain Experience (in years): 17
Team Mentor 2 Name: Dr. Surendra Kumar Nanda		
Category (Academic/Industry): Academic	Expertise (AI/ML/Blockchain etc): Machine Learnin	Domain Experience (in years): 15