



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Government of Kerala

PS Code: 1326

Problem Statement Title: Ideate and implement a system to enhance the quality of education in rural areas.

Team Name: Code Conqueror

Team Leader Name: Gautam Kumar Mahar

Institute Code (AISHE): U-0907

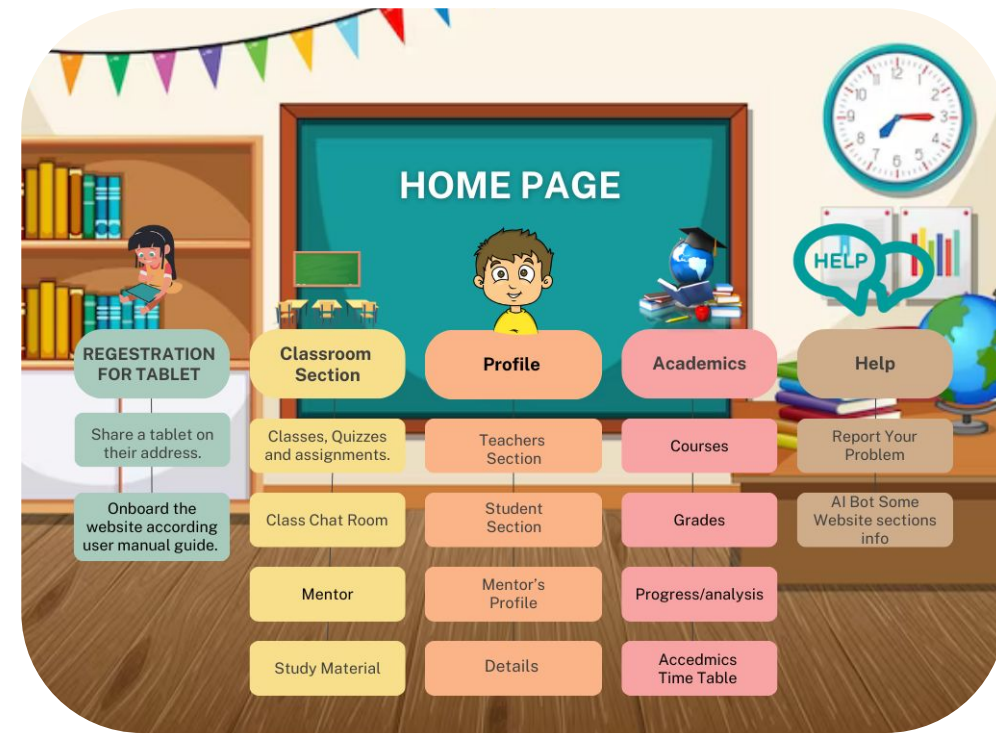
Institute Name: Indian Institute of Technology Goa

Theme Name: Smart Education

Idea/Approach Details

Describe your idea/Solution/Prototype here:

- **Voice assistant** would make learning fun and effortless, thus endeavoring high participation.
- Translation of **local languages** into English and **confident communication** speaking skills.
- **Track attendance** using automatic agents and **awarding the outstanding performers** would incentivise towards increased class participation.
- **Literacy maps** for each listed region would aid in **easy visualisation** of the current status.
- Wi-fi locator is just the right tool to develop and hence **mitigate internet connectivity** issues.
- **Content compression** and data saver mode would make data charges affordable for the commoners.
- **Resource recommendation engine**, with reviews and ratings would help to find the **right match** for dueling up the learning experience.
- **Commodity forums and discussions** in a simulated classroom environment makes **doubt clearance** effective.
- **Virtual labs and experimentation** would enable in depth understanding.
- **Monitoring** and assessment via **learning heatmaps** lets the student **self evaluate** themselves and improve at their pace.



Describe your Technology stack here:

- **MERN STACK**
- HTML, CSS, JS, REACT JS, NODE JS, Express JS, MONGODB/FIREBASE and some other Databases like IndexedDB and use AI POWER.
- SOME USEFUL API - Google **translator** API, Google **Maps** API.

Idea/Approach Details

Describe your Use Cases here

- **Chatbot Assistance** to navigate our web app easily!
- In class chat room, fostering **peer discussion** in a classroom environment
- **Offline mode** provides seamless learning experience even amidst **limited connectivity**
- Access to material resources via **centralized repository of learning resources**
- Monitoring **skill progress**
- Bridge the digital divide by creating a **mobile version** of the application
- Financially disadvantaged patrons are supported through **subsidies** and **education loans**
- **Job assistance** for various roles in schools
- **Research and development**

Describe your Dependencies / Show stopper here

- **Color Blindness** feature makes the application extra convenient for the needful.
- **Awareness of good farming practices** among the rural people, thus provides an excellent **co curricular** welfare programme.
- Special concentration on **targeted communities**, thus segregating them into various groups represented by nominated leaders.
- Providing **counselling** to the children encourages them to streamline with the education system.

Team Member Details

Team Leader Name: Gautam Kumar Mahar

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 1 Name: Ponnekanti Pranathi

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 2 Name: Harsh Choudhary

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 3 Name: Harsh

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 4 Name: Akansha Madavi

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 5 Name: Atul Mehta

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): Mechanical Year (I,II,III,IV): III

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):