



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: **AICTE, MIC-Student Innovation**

PS Code: **1492**

Problem Statement Title: **Student Innovation**

Team Name: **MediTech**

Team Leader Name: **Shahbaz Hussain**

Institute Code (AISHE): **165**

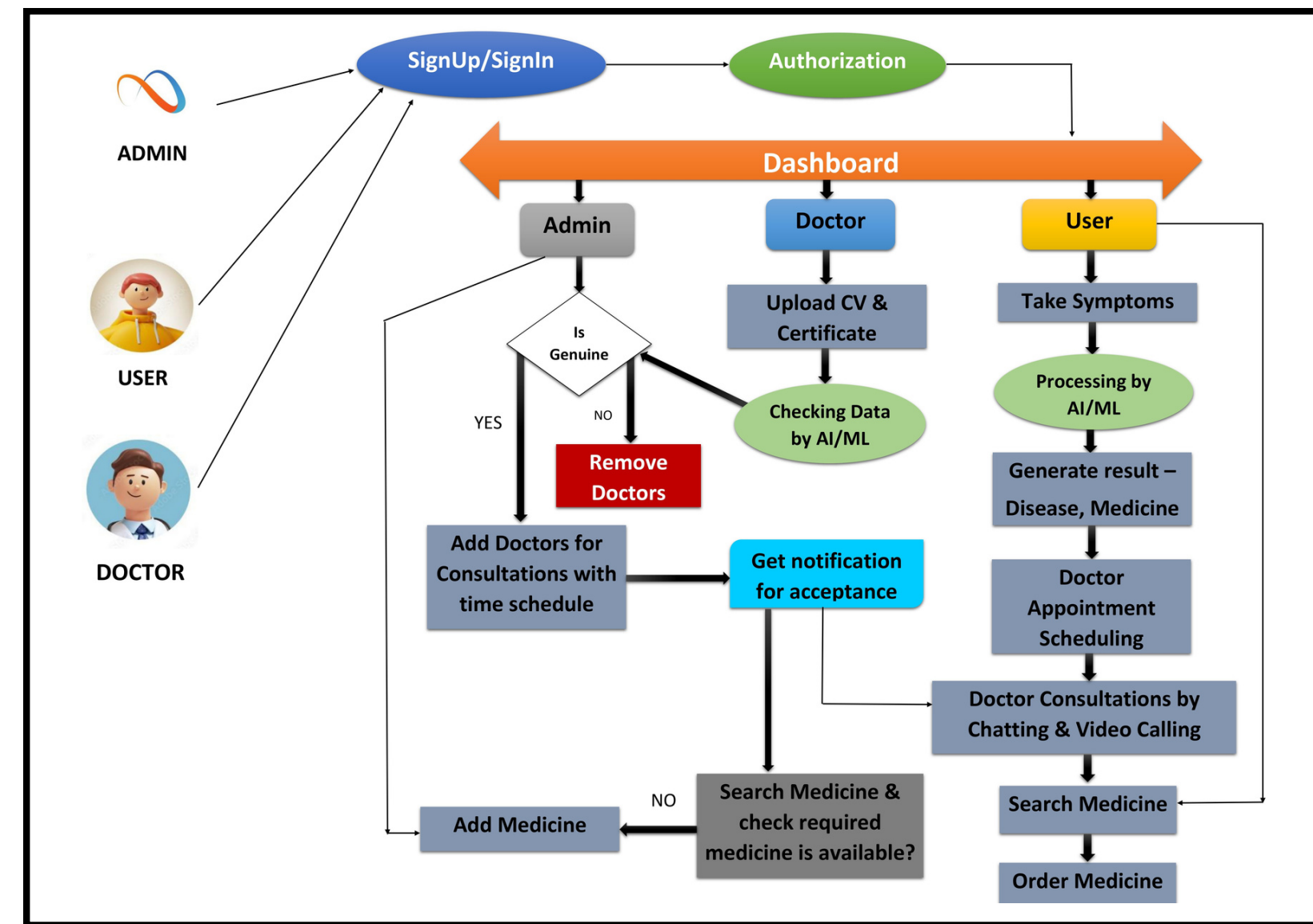
Institute Name: **Calcutta Institute of Engineering and Management**

Theme Name: **MedTech/Biotech/HealthTech**

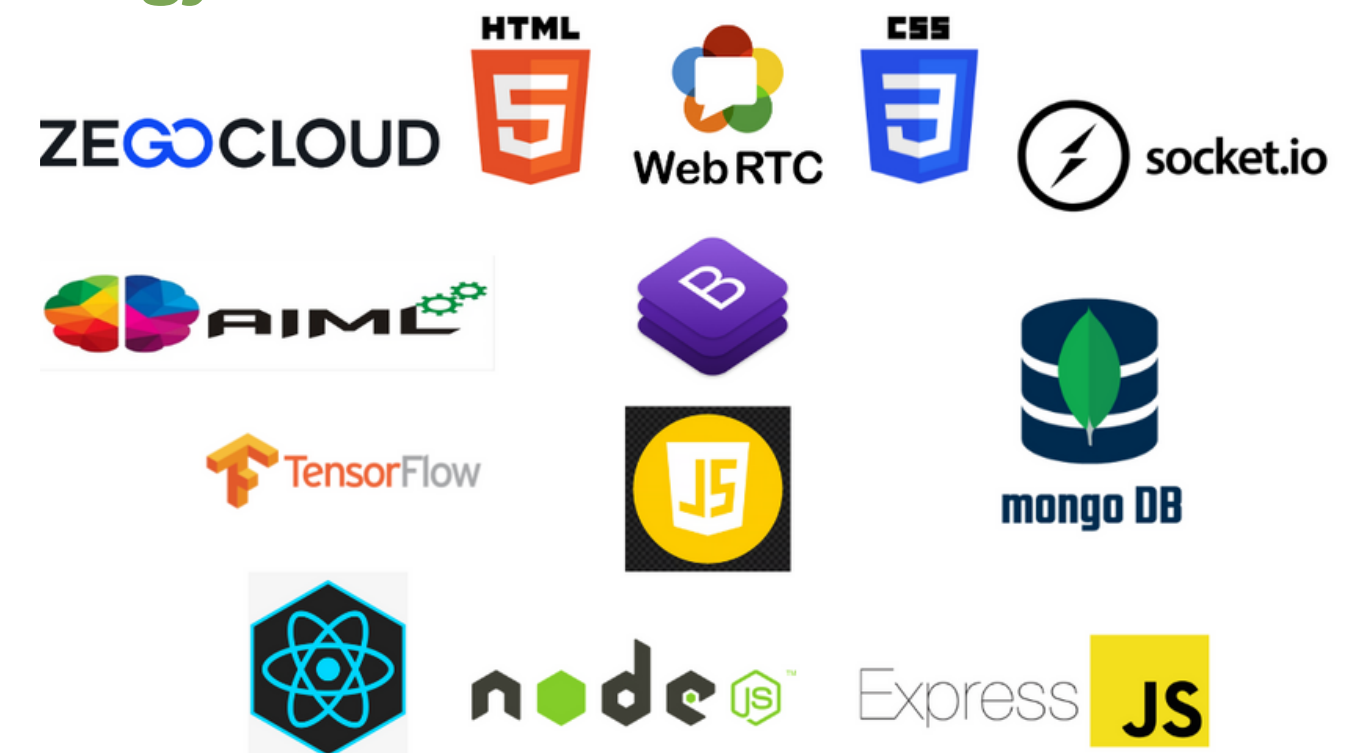
Idea/Approach Details

We are looking for a solution by creating a **web**-based application that will serve as a platform for patients to get the treatment based on **symptoms**, it's duration and type of **disease**. The prototype will function as follows:

- The platform will provide the necessary remedies according to the symptoms of the patients with the help of **AI (Artificial Intelligence)**.
- If the user is not able to understand the disease, then they may consult the respective doctor by creating an appointment to have a **checkup** via **video call** or **chat** implemented with **ZeGoCloud** and **socket.io**.
- After being checked by the doctor, the user can buy the prescribed medicines from our **e-commerce shop**.
- The doctor and user will get their own dashboard to keep every record related to the **health care**.
- The **platform** is very **beneficial** for specially the people living in **rural areas**, since they are unable to get the benefit of **doctors** and **medical shops** like here in the city.



Technology Stack :



Idea/Approach Details

Describe your Use Cases here

- **MediTech's Comprehensive Health Platform:** Offers a one-stop solution for **disease recognition**, **appointment scheduling**, **virtual consultations**, **e-commerce for medicines**, **health data management**, and **health information**, promoting accessible and informed healthcare.
- **Patient Empowerment and Monitoring:** Enables users to actively manage their health through **health monitoring** and access to **educational resources**, fostering **wellness** and early intervention.
- **Community and Support Network:** Provides a supportive community for users with specific health conditions and offers **emergency assistance**, creating a lifeline during **critical situations**.
- **Seamless Healthcare Integration:** Integrates with healthcare providers to enhance care coordination, allowing professionals to access **patient data** and appointments, reducing administrative overhead.
- **Convenient Medication Access:** Facilitates the secure purchase of **prescribed medications**, ensuring **adherence** to treatment plans and improving **patient convenience**.

Describe your Dependencies / Show stopper here

1. **Data Privacy and Security:** Ensuring **robust data protection measures** and compliance with healthcare regulations is crucial to gain user trust and prevent **data breaches**, as the platform handles **sensitive medical information**.
2. **Medical Accuracy and Liability:** The **accuracy** of disease diagnoses and medical advice provided by AI and ML algorithms must be continuously validated to avoid **misdiagnosis** or liability issues in case of errors.
3. **Healthcare Provider Adoption:** Successful integration with healthcare providers relies on their **willingness** and ability to adopt the platform, which may require overcoming **institutional resistance** and technical challenges.
4. **Internet Accessibility:** Users in remote or underserved areas may face difficulties accessing **virtual consultations** and health information, requiring strategies to bridge the **digital divide**.
5. **Emergency Services Reliability:** The platform's **emergency assistance feature** must guarantee **reliable connectivity** and responsiveness to ensure it serves as an effective **lifeline** during **critical medical situations**.

Team Member Details

Team Leader Name: Shahbaz Hussain
Branch : B-Tech

Stream : CSE

Year : IV

Team Member 1 Name: Shilajit Acharjee
Branch : B-Tech

Stream : CSE

Year : IV

Team Member 2 Name: Vikash Kumar
Branch : B-Tech

Stream : CSE

Year : IV

Team Member 3 Name: Shivam Chakraborty
Branch : B-Tech

Stream : CSE

Year : IV

Team Member 4 Name: Sneha Das
Branch : B-Tech

Stream : CSE

Year : IV

Team Member 5 Name: Survajit Gupta
Branch : B-Tech

Stream : CSE

Year : IV

Team Mentor 1 Name: Type Your Name Here

Category (Academic/Industry): Expertise (AI/ML/Blockchain etc): Domain Experience (in years):