

## Basic Details Of The Team And Problem Statement

Ministry/Organization Name/Student Innovation:

International Council For Circular Economy (ICCE).

PS Code: SIH1383

Problem Statement Title: Optimizing Doctor Availability And Appointment Allocation In Hospitals.

Team Name: Full Stack Fighters.

Team Leader Name: P. V. Kartikeya Pavana Suchindra.

Institute Code(AISHE):

Institute Name: JB Institute Of Engineering And Technology.

Theme Name: HealthTech



# Our ideas/approach:

**1.Improved efficiency** : Using **AI** to analyse appointment data, patient preferences and doctor schedules for **reducing wait time**.

**2.Enhanced patient experience**: Patients can **easily book appointments**, receive timely reminders and access their medical records for a **more convenient experience**.

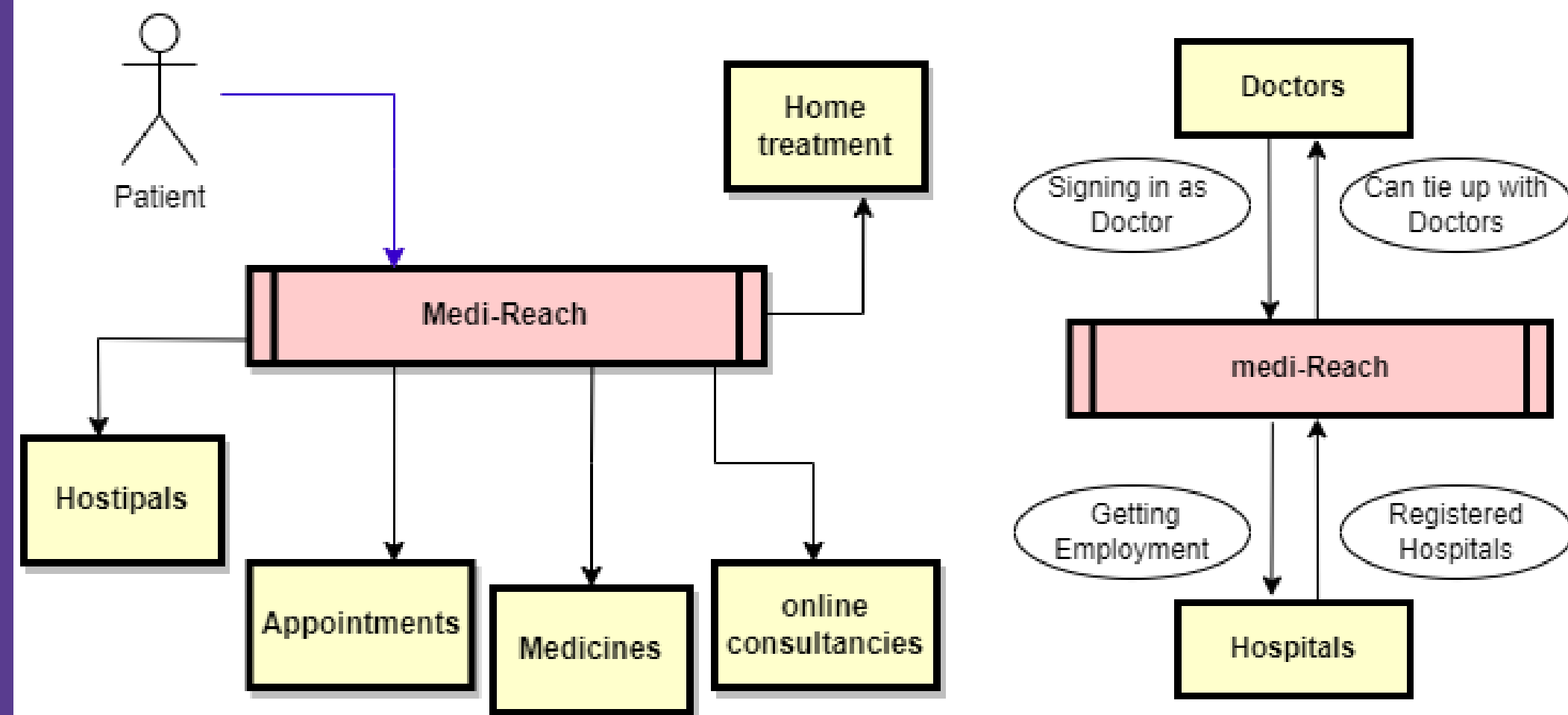
**3.Better resource management** : Resources can be allocated **more effectively** by matching doctor's availability with patient demand.

**4.Reduced administrative burden** : Administrative staff can focus more on **value-added tasks** rather than appointment scheduling and management tasks.

**5.Increased accessibility** : It allows patients to access healthcare services **remotely increasing accessibility**.

**6.Data-driven decision-making** : AI provides **valuable insights** helping hospitals make informed decisions and resource allocation.

## Technology stack:



7. Reduced no-shows : AI sends automated reminders and confirmations to patients, reducing the number of missed appointments and improving overall appointment constancy.
8. Cost savings : checking doctor's availability and appointment scheduling can lead to cost savings and **reduce administrative overhead**.
9. Scalability : Digital technology and AI can scale accommodate the needs of large healthcare systems, making it easier to manage appointments.
10. Health monitoring : Remote monitoring can enable continuous **health tracking**, allowing doctors to provide **more proactive care**.
11. Reduced paperwork : going digital reduces the paperwork associated with appointment scheduling and medical recordkeeping, making health operations more environment friendly.
12. Enhanced accuracy : AI algorithms can prevent scheduling errors, ensuring patients see the right specialists and **reducing the risk of medical mistakes**.

## Show Stoppers

1. Insurance availability : AI analyses the insurance data provided by the customer and provides us with information on whether the policy is applicable at the hospital before booking an appointment. It allows the individuals to understand their **insurance coverage** and showing the availability of an insurance policy before booking a medical appointment empowers individuals to make informed decisions about their healthcare, ensuring they receive appropriate coverage and **reducing the potential for financial surprises**.
2. Doctors to hospitals : **Providing employment** for temporarily unemployed doctors, physicians by collaborating with various hospitals which need substitutes.
3. Home healthcare : Home healthcare eliminates the need for **patients with chronic disorders** to travel to a medical facility and doctors can provide more individualized care in patient's home environment. Home healthcare can **reduce the exposure to infectious diseases during disease outbreaks** and provide patient-centered care.
4. Medication delivery : Our app pave a way to buy any **medication delivery facility** from various nearby pharmacies with comfortable discounts and offers.



# Team Member Details:

**Team Leader Name:** P V Kartikeya Pavana Suchindra

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **Year :** II

**Team Member 1 Name:** Riddhi Pyata

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **Year :** II

**Team Member 2 Name:** Jangapally Avinash Vardhan

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **Year :** II

**Team Member 3Name:** Kondan Sreenidhi

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **Year :** II

**Team Member 4 Name:** Suryapakula Sudheer Kumar

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **Year :** II

**Team Member 5 Name:** Sandeep Nidamaluri

**Branch :** B-tech                      **Stream :** CSE(AIML)                      **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):