

# Emergent

( Project Name )

“Like **Education**, Healthcare also needs to be given **importance**”

# Meet our Team



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# Problem Statement



"Healthcare reform is currently one of the most divisive issues. EHR systems are the healthcare technology trend that the industry is eager to adopt. Storing a patient's medical records in a centralised database allows hackers to easily manipulate and breach them. During medical emergencies, hospitals are unable to access the patient's previous medical records."

# Problems Identified

- **Lack of Medical Records** of the patient at the time of emergency
- Unable to contact relatives of the victim **instantly** after the accident.
- **Delay to get the health information/ records** of the victim by the doctors to start the treatment.



# Problems Identified

- **Data Manipulation** of Health Records which are very sensitive.
- **Lack of knowledge** about the interpretation of medical records.
- As the health records of patients are centralised only the particular hospital has access. (**Patients do not own their medical records**)



# Survey



We have conducted a **few surveys** with patients and their relatives to know about the problems they faced during **medical emergencies** and **health record management**.

# Objectives

Our solution (**Emergent**) can provide all the medical records of the patient during any **medical emergency seamlessly** by scanning the face/fingerprint of the patient.

- **The facial recognition feature-** Used to identify a victim/patient and then contact their family to inform them about the emergency situation.
- Keep track of the medical data directly from the **Modern IoT Medical Equipments** stored in the blockchain.
- Hospitals can **access the previous health records** of the patient by using the facial recognition feature in our app



# Objectives

- If the facial recognition feature is not working due to a problem with a person's face then we can use the **fingerprint feature** in our app.
- Using AI/ML we analyze the medical records of the patient and **Recommend the food** according to the illness of the patient





# Novelty



- Hospitals or patients can deposit their medical records in our decentralised system just by **scanning the medical reports**.
- We employ blockchain technology to keep user medical records more securely. **(Patients own their medical data)**.

# Novelty



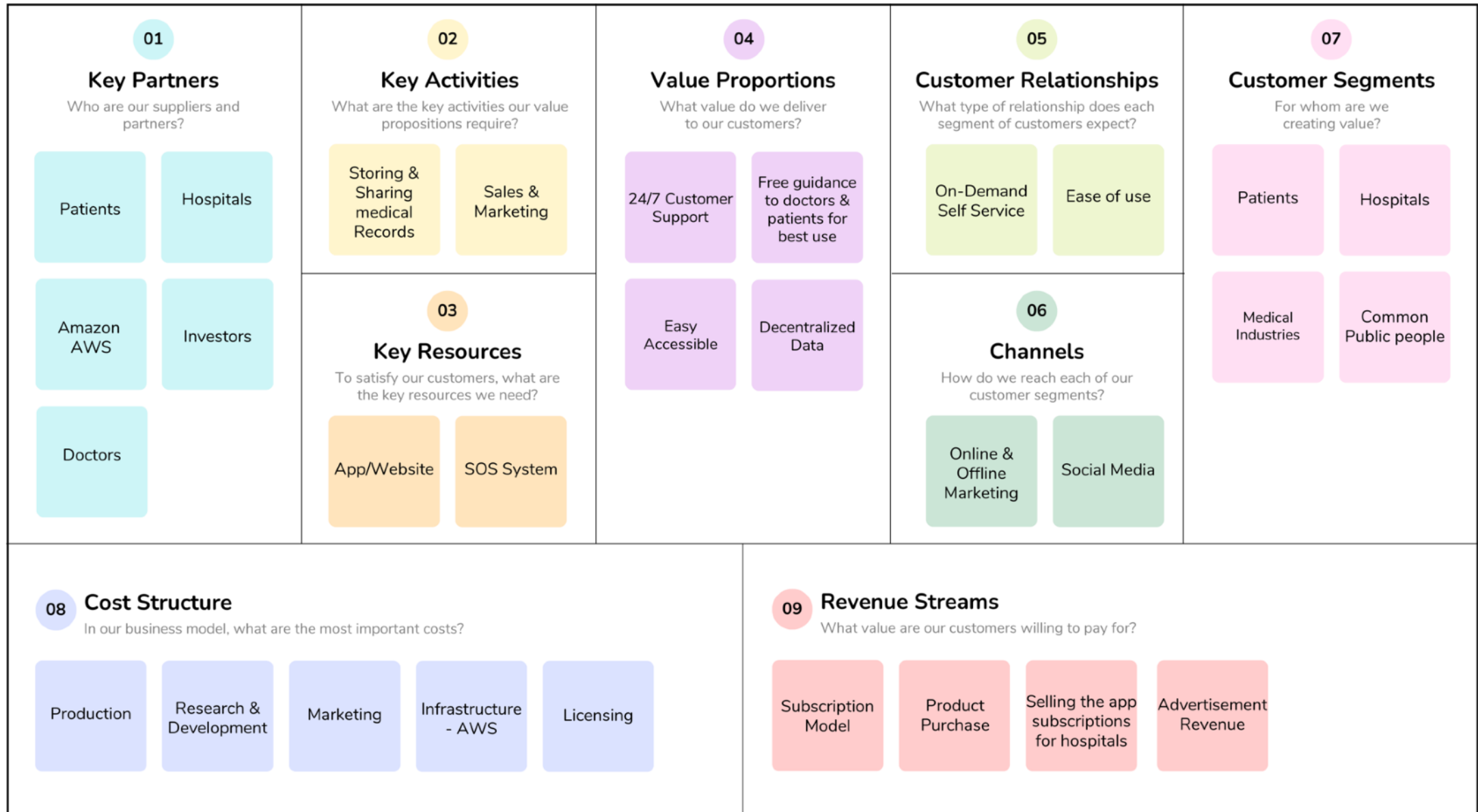
- Our software is directly **connected to the modern medical equipment** used to treat the patient and all the data from that will be recorded and stored in the blockchain to **prevent serious data breaches & manipulations** by hospitals.
- We also use our **AI Model** to analyse the medical information from the scanned reports and inform consumers about their **health schedule, diets and regular checkups**.

# Novelty

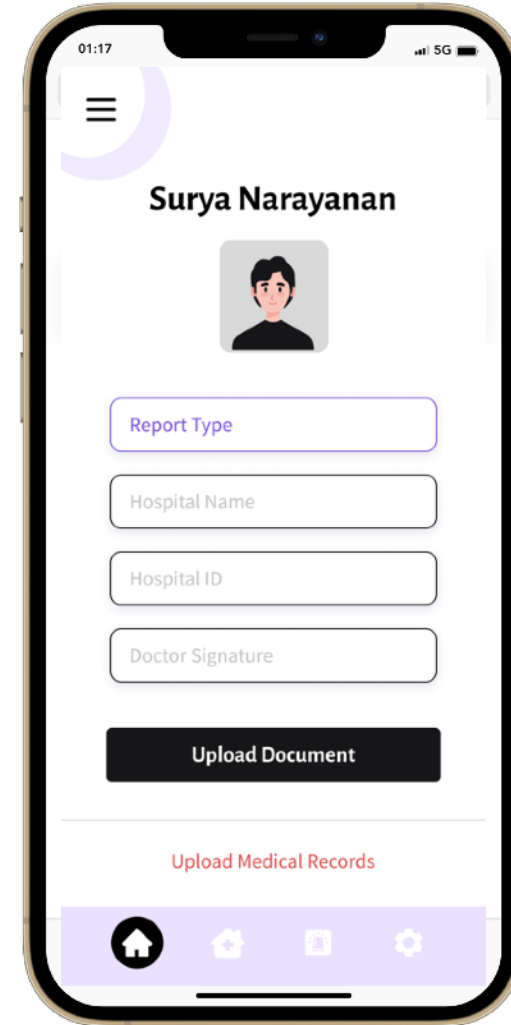
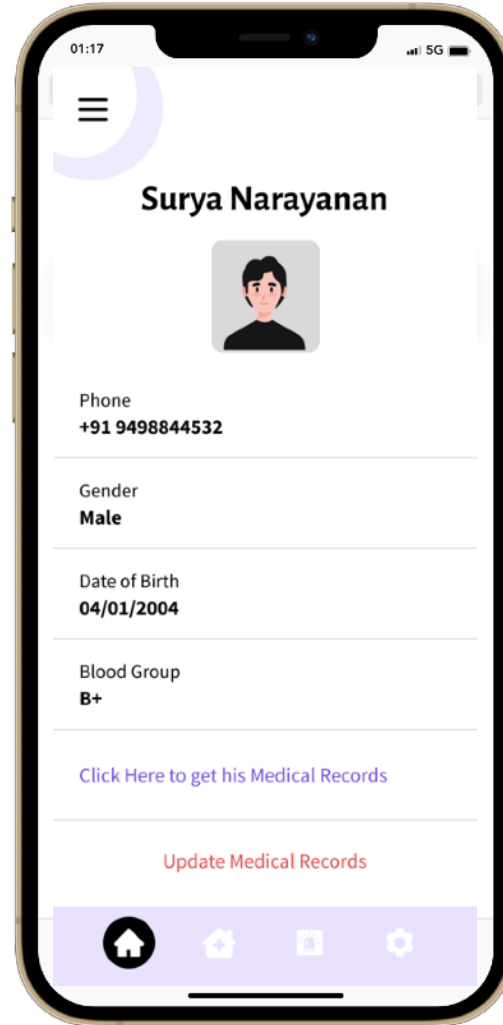
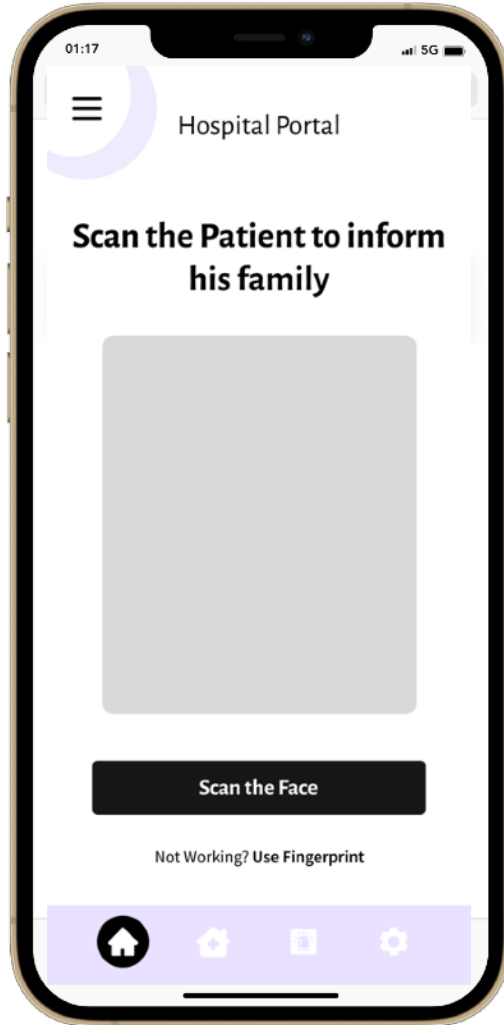


- By scanning the **patient's face or fingerprint**, Verified Hospitals can obtain comprehensive medical records of the patients to start treatment immediately.
- Using our **built-in SOS system**, you can rapidly access the victim's emergency contact details.

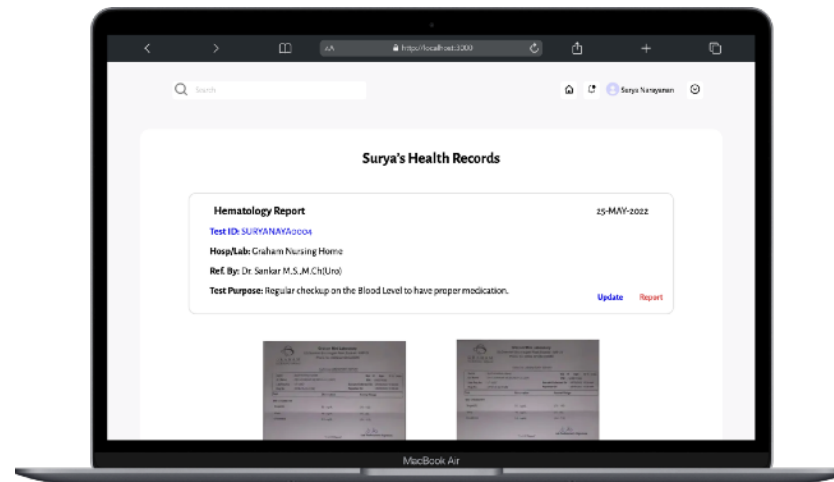
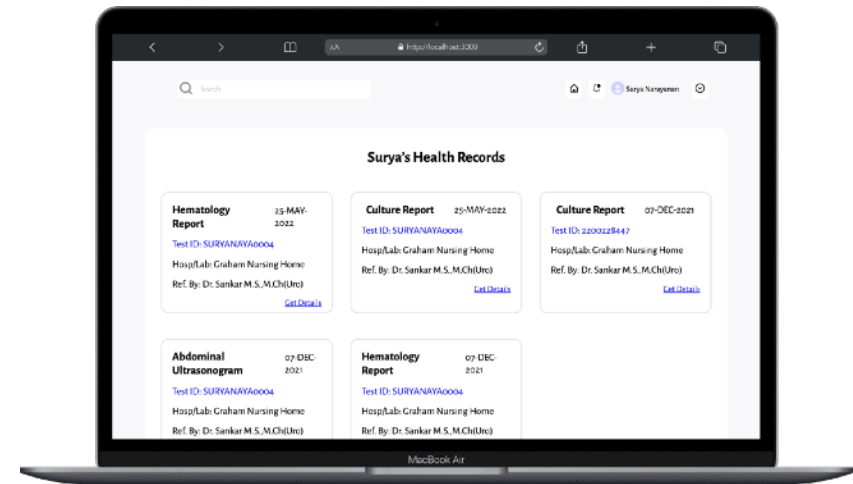
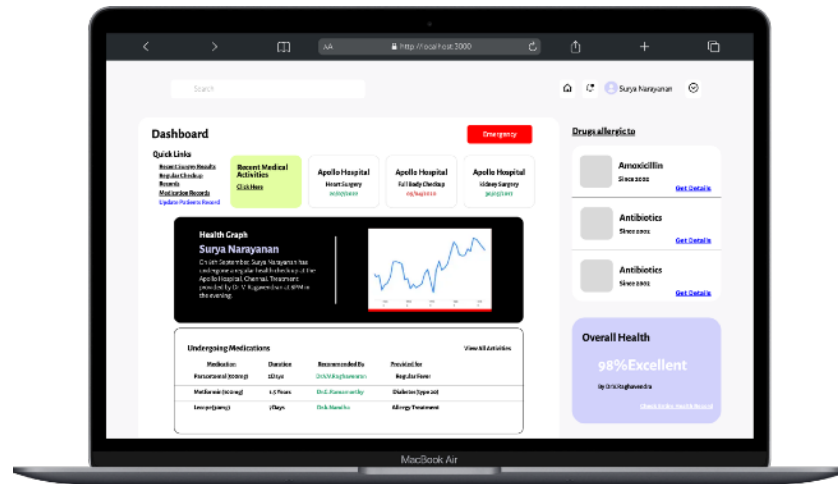
# Business Canvas Model



# App Prototype Screenshots



# App Prototype Screenshots



# Conclusion



**“This is how most stories end in the hospital. Not with crash carts and sirens and electric shocks to the chest, but with an empty room, a crisp white bed, silence.”**

# Reference Links

1. <https://online.se.edu/articles/mba/the-challenges-of-storing-health-information-records.aspx>
2. <https://kaymanvaults.com/medical-record-management-challenges-in-the-healthcare-industry/>
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5. <https://www.ncbi.nlm.nih.gov/books/NBK519065/>
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8. <https://www.geeksforgeeks.org/how-to-build-a-sos-mobile-application-in-android-studio/>



**Thank You**

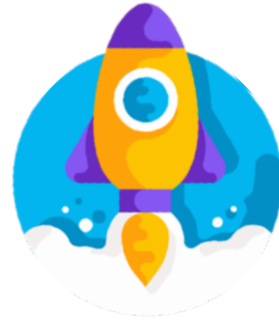
# Methodology & Project scope



Our workflow we planned for reaching our project goals

1. Firstly, we plan to develop a working prototype with basic features like face detections of the patients to access their medical records.
2. Our next step is to implement blockchain technology to store their medical records in a decentralised system and test them in real-life situations.
3. Once it is perfectly structured, the app will be given to the people for hands-on experience to test the app's feasibility and user-friendliness.
4. The final product will be released into the market after analyzing and implementing the suggestions from the users.

# Outcome



1. With our app, we can easily identify the **contact details** of the victims in a few seconds during **any accidents or medical emergencies** to inform their families/relatives.
2. As all the medical records are being stored, hospitals can **easily access the previous medical records** of the patients to start their treatment immediately during emergency situations.
3. With the incorporation of the latest technology, we can easily get the victim's details easily by **scanning their faces/fingerprints** and also with the help of our **built-in SOS system**.
4. As the health records are stored in a **decentralised system**, patients own their medical records and there will be no **data manipulation & data breaching**.
5. Can verify the **medicinal uses** and their purposes by just scanning the medicines