



# Team Whack

## Patient management system

BY:

1. Bhumika Bhatia
2. Anushka Lal
3. Anushka Gupta
4. Diksha Chugh

# Theme and Problem Statement

- In a densely populated country like India, hospitals are always overcrowded and unnecessary time is wasted in filling forms.
- This issue is especially relevant in the current period where availing necessary facilities from any hospital is considered to be an arduous task and the admission system is not very feasible.
- This is a common issue and we have been analyzing the problems faced by the patients and communication lag and have attempted to find a generalised solution.

## Relevance and Use

- Propose a system where a form consisting of data of patients will be available to the hospitals beforehand
- Can be utilized for efficient monitoring and faster treatment.
- Increase in patient convenience
- According to the details and symptoms the system will recommend and classify a particular department and also classify the priority of the patient as high or low risk
- Secured verification of patient's Aadhar details by OTP



# Basic Architecture

## Patient Base

Three kinds of form based on the user filling it i.e. patient or known, doctor or unknown witness(in case of accident)

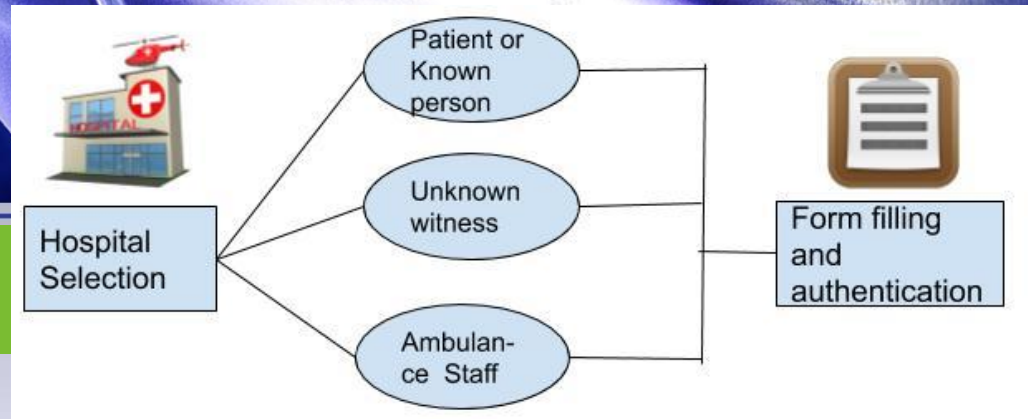
Information Provided to the hospital beforehand

## Hospital Base

Secure Monitoring of patient's data

Classifier system for Department and Severity

Ease in providing medications by unique ID



## Technology Stack

1. Machine Learning Clustering Model based on severity if given by the doctor
2. Recommender system based on common symptoms
3. Deploy the model on web using Flask
4. Aadhar card authentication API

# Cost of Implementation and Feasibility

## **COST**

- Internet Connection
- Software(specific product)
- Hardware (eg: Laptop/Mobile)
- License of developing software
- Digital Marketing

## **Feasibility:**

- Ease in hospital's administrative tasks
- No additional infrastructure/cost required
- Reduction in overhead costs
- Improved Facilities

## Future Scope

- Personalised Application for patients for medicines and future appointment alerts
- In case of medical emergencies GPS tracking system will recommend nearest hospital and connect with private ambulance systems
- Real-time tracking of number of patients for appointment with the doctors