

Problem statement from Smart india Hackathon:

It is common sight at busy traffic junctions where ambulances struggling find a way to carry patients for treatment on golden hour. Employing Drones which can carry payloads of 100kg, min at designated high traffic circuits will help many patients

Problem statement I need to work on:

Now a days ambulances are facing lot of trouble in the traffic. We need to make reach the ambulances to the hospital in thte required time. We need to help the patient reach the best hospital best on the symptoms and the doctor availability

Concept/Solution:

To Create a platform for 1) Ambulance Driver, 2) People, 3) Traffic Police, 4) Hospital

Application interacting people	What they do?	What the Application need to do?
Ambulance Driver	<ul style="list-style-type: none">● Ambulance Driver can able to enter the type of hospital(Heart, Brain, General Hospital..etc), current and destination location● May also submit the previous health report or the summary of the patient condition	<ul style="list-style-type: none">● Application shows the best hospital to go fast and it need show based on the availability of the bed and the doctor in the hospitla● It shows the number of signal in between and send the message to the traffic police to clear the traffic in those signals● It need to send the information to the required hospital so they wait for the patient (and studying about the patient history(if they entered the patient history))
People	<ul style="list-style-type: none">● Used it to find the near by hospital based on the patient suffering● Inform the hospital, so the hospital can get ready to treat the patient	<ul style="list-style-type: none">● Application shows the best hospital to go fast and it need show based on the availability of the bed and the doctor in the hospital● It need to send the information to the required hospital so they wait for the patient (and studying about the patient history(if they entered the patient history))

Traffic Police	<ul style="list-style-type: none"> ● Need to clear the traffic in the ambulance travelling road to make ambulance reach the hospital early ● If the traffic is high traffic police need to send the traffic is high message to the ambulance driver so the ambulance driver choose the alternative road 	<ul style="list-style-type: none"> ● Send the details about the ambulance travelling road details to make them free by the traffic police ● Send the high traffic details so that the ambulance can take the alternative path
Hospital	<ul style="list-style-type: none"> ● They need to get the patient details and make the first aid ready and the bed ready for the patient ● They need to send message if the hospital is full so the ambulance driver can take the patient to the next available hospital 	<ul style="list-style-type: none"> ● Send the details about the patient to the hospital ● Send the bed availability details to the ambulance driver

User Stories:

1. Ambulance driver able to add the patient data to get the best nearby hospital and send the information to the traffic police
2. Ambulance can able to travel fast to the near by hospital
3. Ambulance driver can able to see the list of nearby hospital based on the human health
4. Ambulance driver need to reach the right Specilized hospital based on the patient health.
5. Traffic police need to know when the ambulance will cross this road to maintain the road traffic free.
6. Automatically control the traffic light based on the data entered by the Ambulance drive.
7. Ambulance driver able to know how many traffic points in between the travel.
8. Hospetal should ready for the arrival of the patient to take care of them.

Use of Technology

Home page for Ambulance driver and people:

- 1) Python Flask, Html, CSS is used to create a home page for the ambulance driver

Server:

- 1) Server may be the local server (to make it online we can use ngrok)
- 2) SQL to store the data

Admin:

- 1) MYSQL command to enter the records

Technology:

- 1) Python
- 2) Flash frame work
- 3) Html
- 4) Css
- 5) SQL

Table for SQL:

User Table

User_Id (Primary key, Auto increment, Numeric)	Name (NOT NULL, VARCHAR(50))	Email ID (NOT NULL, VARCHAR(100))	Password (NOT NULL, VARCHAR(20), MD5 encrypted)	User (NOT NULL, VARCHAR(3)) (Amb,Hsp,pep)

Traffic table

S.NO (Primary key, Numeric, Auto incremented)	From	To	Number of traffic signal	Traffic Signal ID	Nearest Hospital ID

Signal table

Traffic signal ID	Traffic Police ID

Hospital table

Hosptilas ID	Specilist	Doctor and Seat Availability (1/0)

Patient table

Patient ID	Hospital ID	Traffic signal ID	Pathent description	Emergency status	Signal cleared or not