

Ambulance Alerting System

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Project Name:	Ambulance Alerting System

Project Statement:

It is a common sight at busy traffic junctions where ambulances struggles to find a way to carry patients for treatment during the golden hours. Employing an system that can send an ambulance coming information to the traffic police, so he can able to give path.Which help ambulance to reach hospital early.



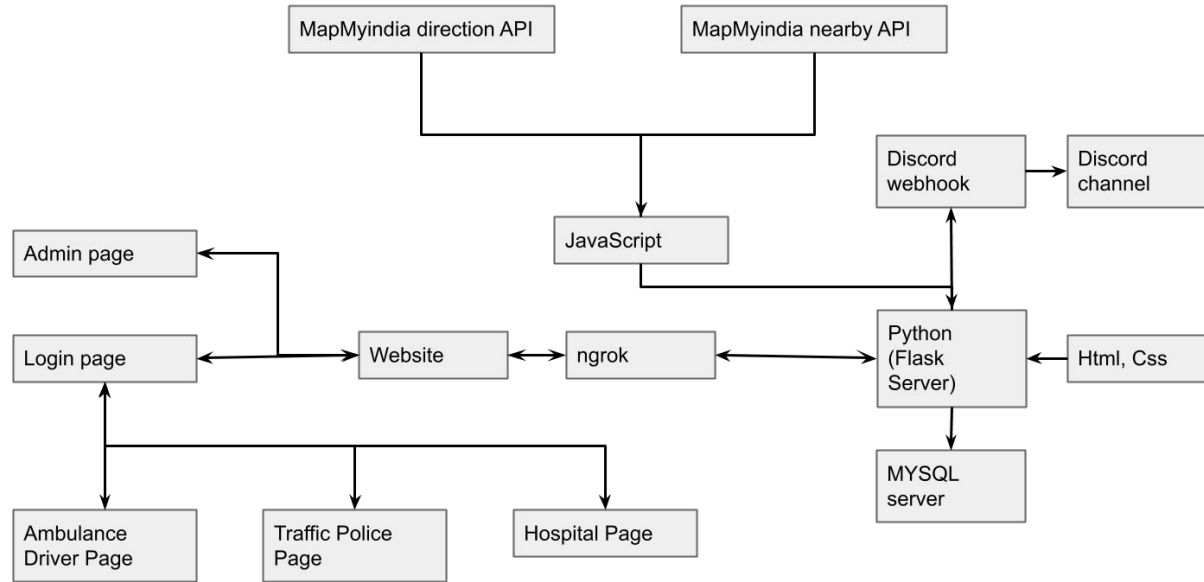
Ambulance is used to take the patient to the hospital as early as possible. But in the high populated city or high traffic city, some ambulance struck at the traffic that is unnoticed by the traffic police to make a way for it. Taking the patients early to the hospital will increase the probability of the life of the patient. We need some technology or system that send the information to the traffic police regarding the ambulance is coming in this route so they can make the way for it and ambulance can able to reach the hospital early. To solve this we introduce a Ambulance Alerting System which will able to send the ambulance information to the traffic police.

Taking the patient to the hospital as early as possible can be able to save the life of the patient. Ambulance plays an important role in taking the patients to the hospital. But the traffic in the high traffic city stuck the ambulance in the traffic. A report published in Times of India about 146,133 people were killed in road accidents in India in the year 2016. Unfortunately about 30% of deaths are caused due to delayed ambulance. Another Indian government data shows more than 50% of heart attack patients reach hospital late, which can constitute unavailability of ambulances too but majority of it is due to patients stuck in traffic. It motivated us to do the Ambulance alerting system.

Concept

Application interacting person	How users interacting with our project?	How Application responds back?
Ambulance Driver	<ul style="list-style-type: none">Ambulance Driver can able to see the near by hospitals and able to enter current and destination locationAble to see the direction to the destination	<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 hospitalIt shows the number of signal in between and send the message to the traffic police to clear the traffic in those signalsIt need to send the information to the required hospital in the destination location.
Traffic Police	<ul style="list-style-type: none">Need to clear the traffic in the ambulance travelling road to make ambulance reach the hospital earlyIf the traffic is high traffic police need to send the road is busy message to the ambulance drive so the ambulance drive 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 policeSend 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 detials and make the first aid ready and the bed ready for the patientThey 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 hospitalSend the bed availability details to the ambulance driver

Block Diagram



Use of Technology

Tools		Usage in this project
Front-End		Visual content that appear in the screen
1	HTML	Used to display the content in the webpage
2	CSS	Used to style the webpage
3	JavaScript	Used to make website functionable
Back-End		Process the instruction
1	Python	The back-end code is written in Python
2	Flask	Flask is the framework of python that serve front-end
3	MySQL	Used to store data
ngrok		Used to serve the localhost to internet

Tools		Usage in this project
MapMyIndia		Map tool
1	MapMyIndia Direction Plugin	Used to give direction to the ambulance driver
2	MapMyIndia Nearyby Search Plugin	Used to give nearby hospital to ambulance driver
Discord		Discord message app
1	Discord Server	Used to send and receive message in the discord app
2	Discord Web hook	Used to send message from python to the discord server

Admin Page of AmbulanceAlertingSystem

Name

Email ID

Profession

--select an option--
--select an option--
Hospital
Traffic Police
Ambulance driver

Admin Page of AmbulanceAlertingSystem

Name

Email ID

Profession

Traffic Police

Password

location

Discord user name:

from:

to:

from:

to:

Admin Page of AmbulanceAlertingSystem

Name

Email ID

Profession

Hospital

Password

Hospital Name:

Ready to attend patient:

yes

Discord user name:

Hospital Location:

Ambulance Alerting System

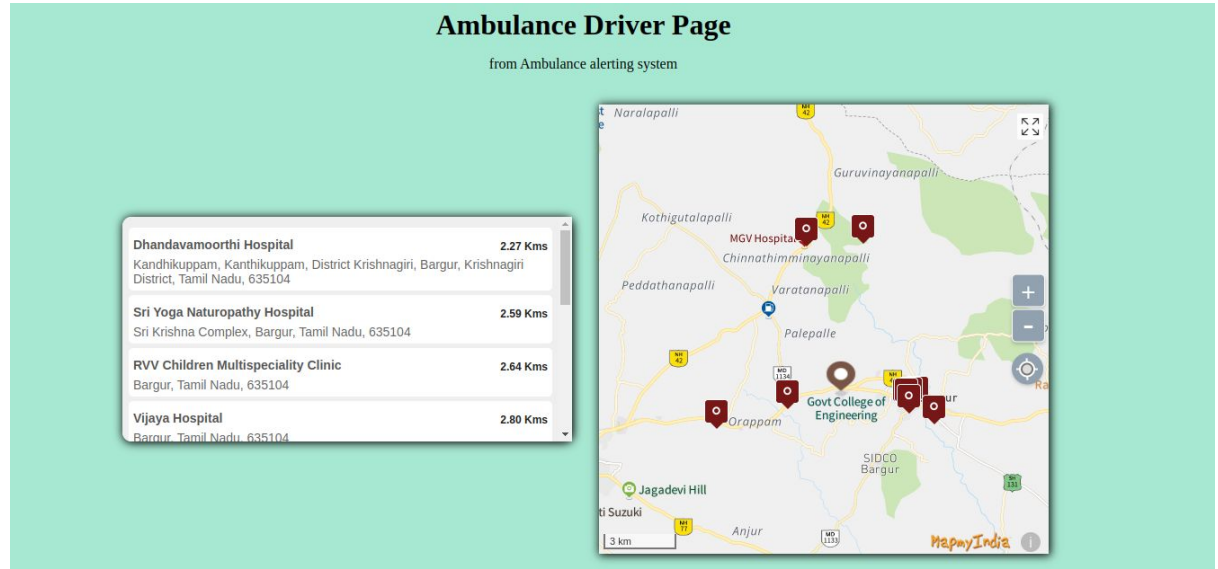
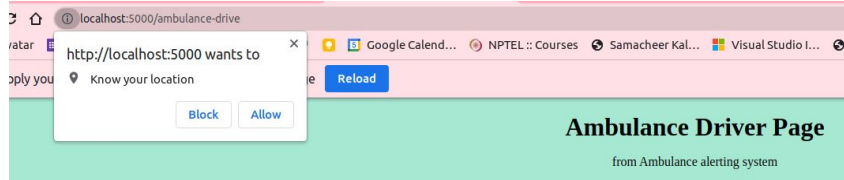
Email:

Example@example.com

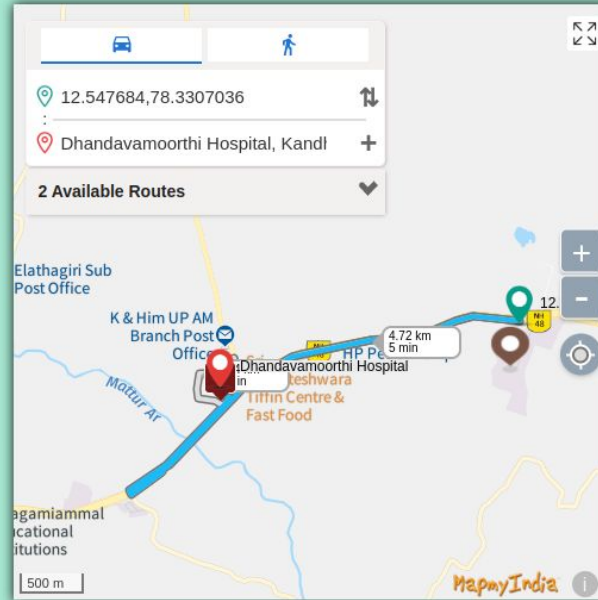
Password:

Submit

Working - Ambulance driver page



Dhandavamoorthi Hospital	2.27 Kms
Kandhikuppam, Kanthikuppam, District Krishnagiri, Bargur, Krishnagiri District, Tamil Nadu, 635104	
Sri Yoga Naturopathy Hospital	2.59 Kms
Sri Krishna Complex, Bargur, Tamil Nadu, 635104	
RVV Children Multispeciality Clinic	2.64 Kms
Bargur, Tamil Nadu, 635104	
Vijaya Hospital	2.80 Kms
Bargur, Tamil Nadu, 635104	



From:

tambaram ▾

To:

thiruvannur ▾

Submit

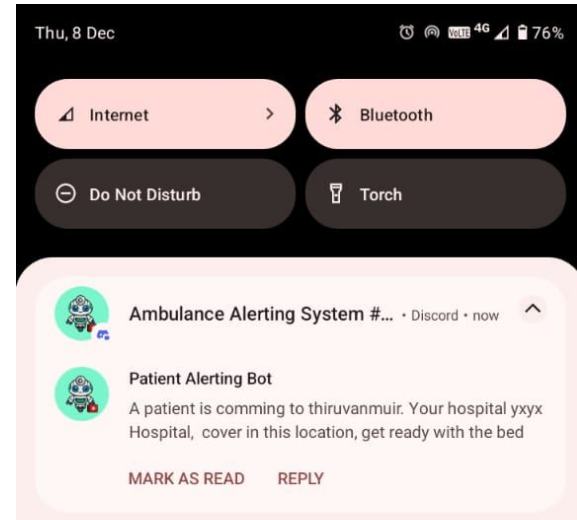
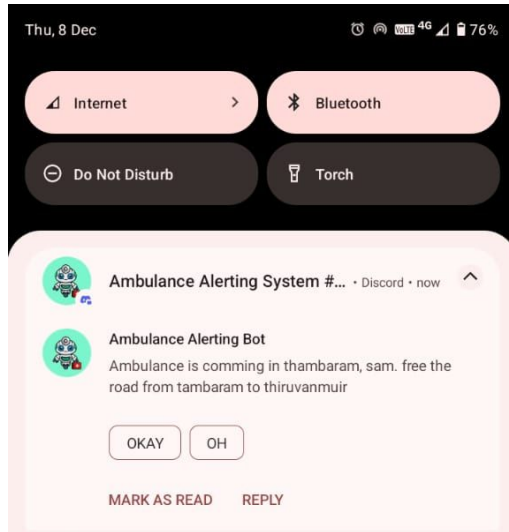
Signals in between your destination

Location	Signal Status	Traffic Police name	Message sent to clear traffic
tambaram	Busy	sam	Yes

Hospitals near your destination location

Hospital Name	Bed available
yyx Hospital	No

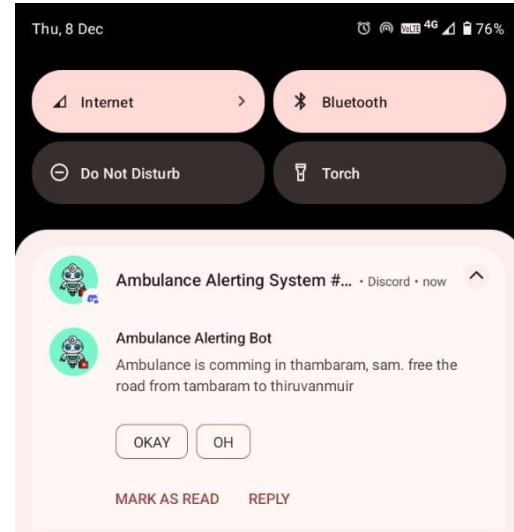
Working



Traffic Police Page

thambaram ▼ Free ▼ Submit

Signal Location	Signal status
thambaram	Busy

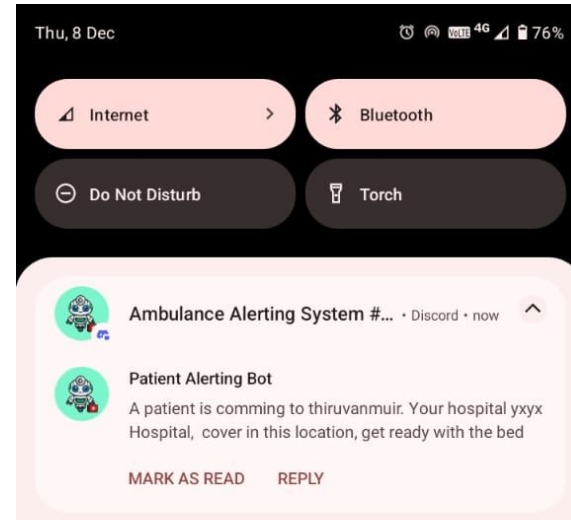


Hospital Page

xyyx Hospital ▼ Yes ▼ Submit

Changed successfully

Hospital Name	Accept Patient
xyyx Hospital	Yes



- The security of the website can be increased
- The website should be made compact for phones
- UI and UX of the website can be improved
- There is a amount of time need to be spend by the ambulance driver in the website, that need to be reduce by simple processos or automation
- App can be create
- Bugs should be created
- Can be improved to automatically control the traffic lights by the server based on the information taken from the ambulance driver

Thanking you