FULL STACK PROJECT
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Synopsis

Team Members

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MY SMART CITY

Introduction

MY SMART CITY is a friendly smart city portal. This website will be helping the government to control and access all the necessary services. This website will provide the feature of all in one platform for all the services like "Traffic Light Control", "Real Time Camera Access", "Ambulance Tracking", "theft control" etc.

Objective

The objective of this web portal is **to bring all the important data of the city in one place** so that the government can access and manage all the important data simultaneously.

Working Methodology-

- The purpose for developing this project is to provide a platform where government can control all the important services in one place.
- This website will provide the following features which can be easily handled by the government:

1. **Traffic Control:** We are providing the traffic control system by which the government can access the real-time traffic record of all the zones of the city which will be helping in controlling the traffic lights.

2. **Real time Camera Access:** This section will be providing the real time camera access of the whole city which will be helping in reducing crimes as using real time camera access theft can be controlled.

3. **Ambulance Tracking:** About 30% deaths are the reason of delayed ambulance as per a report of Times of India. In this portal we are providing a traffic control portal with real time camera access which will be helpful in reducing the problem of ambulances stuck in a traffic. Using this portal government can keep track of free routes and guide the ambulances to reach fast at the destined hospital.

- This portal will be a very useful one to bring an initiative of saving many lives and can bring a change in the society.

Software Specification

Technology Implemented

Front-End Technologies:

Language Used: HTML, CSS, JavaScript.
Frameworks: Bootstrap, Slick Slider
Back-end Technologies: MongoDB, Express JS, Node JS, Django, GitLab
Development Environment: Visual Studio code, Git
Web Browser: Chrome / Firefox

Hardware Requirements

- **Processor:** intel i3
- **Operating System:** Windows 7/8/10, Linux, Mac OS
- **RAM:** 2+GB
- **Hard disk:** 64 GB
- **Hardware Devices:** Computer System

Team contribution

In this project we are working in a team of 3 dedicated members.

Astha Verma, Taruwarsh Kumar, Shivam Srivastava

The front-end will be designed by **Shivam Srivastava,** the **back-end** will be managed by **Astha Verma** and **Taruwarsh Kumar**.

Limitations of The System Proposed

- Internet connection is required while accessing the website.
- Hardware failure such as cameras and IoT devices.
- Database failure.

Online GIT repository

https://gitlab.com/aman.shakya_cs19/fullstack-project

Conclusion

We are developing a friendly smart city portal named MY SMART CITY. This website is a helping hand for the government to control and access all the important services of the city. This website will provide all in one platform for all the services like "Traffic Light Control", "Real Time Camera Access", "Ambulance Tracking", "theft control" etc. It's an initiative to save precious lives.

References:

- www.beta-labs.in
- https://www.w3schools.com/
- https://stackoverflow.com/
- https://www.javatpoint.com/
- https://kenwheeler.github.io/slick/
- https://getbootstrap.com/docs/5.0/getting-started/introduction/