TO DEPLOY A WEBSITE MANUALLY IN FIREBASE

Problem Statement:

Traditional urban planning relies on outdated and fragmented data, leading to traffic congestion, pollution, and inefficient infrastructure. This lack of real-time insights makes it difficult for planners to create sustainable and adaptable cities.

How It Solves the Problem:

Our **AI-powered system** addresses the challenges of outdated urban planning by:

- **Real-Time Insights:** Provides live data from traffic, pollution, and infrastructure sources for faster decision-making.
- **Predictive Analytics:** Forecasts future traffic patterns and environmental changes to prevent congestion and pollution.
- **AI Recommendations:** Suggests optimized solutions for better city planning, reducing inefficiencies and improving sustainability.

PROTOTYPE :

Tech Stack Used

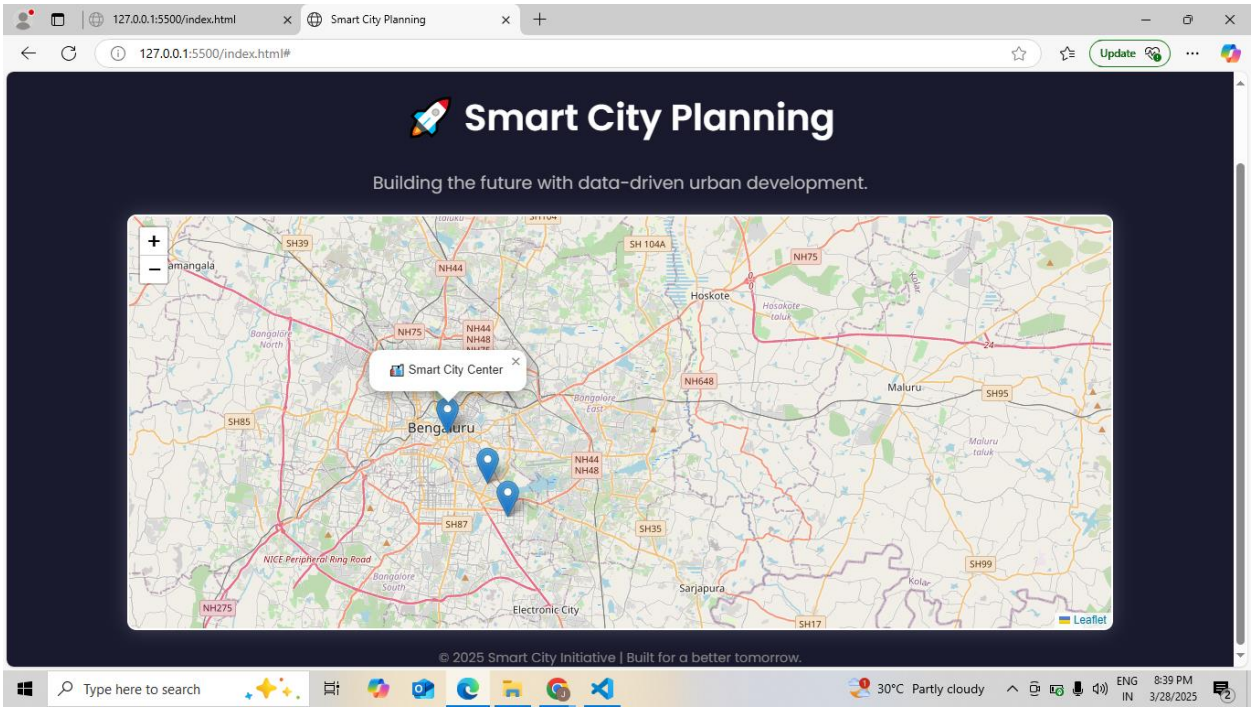
Our prototype is built using a **lightweight and scalable web stack**:

✅ **HTML** – Structure of the web page.

✅ **CSS** – Styling with modern UI (Glassmorphism, Dark Mode).

✅ **JavaScript (Leaflet.js)** – For interactive maps and marker functionality.

✅ **OpenStreetMap (OSM)** – Free alternative to Google Maps, reducing dependency on paid APIs.



HOW TO PUSH IN GITHUB?

1. Creating a new repository in my Github account.
2. Making sure our prototype works**.**
3. Navigating to our project folder in terminal (vs code)

   cd path/to/smart-city-ai-planner
4. Initializing git using **git init** command.
5. Adding our files to git using **git add .** command.
6. Commit the files using **git commit -m "Initial commit - Smart City AI Planner Prototype"** command.
7. Connecting our local repository to github using **git remote add origin** https://github.com/YOUR-USERNAME/smart-city-ai-planner.git **command.**

8. Pushing my code to Github Using :

   git branch -M main

   git push -u origin main

https://github.com/jhanani14/Smart-city-ai-planner

HOW TO DEPLOY THIS PROTOTYPE ON FIREBASE HOSTING?

1. Creating a account on Firebase (https://console.firebase.google.com)
2. Creating a new project.
3. Entering a proper project name (smartaicity) and giving continue option.
4. Selecting an account (default account for firebase) and giving create project.
5. Now the project is created and ready to use.
6. Now we have navigated to our project page and selecting **hosting** option on the left side of firebase page.
7. Now getting started and we are following the instruction.

1. Navigating to vs code and open the terminal.
2. Install Firebase CLI Using

   npm install –g firebase-tools
3. Initializing our Project

   firebase login (choosing our account)

   firebase init

a). In init option proving yes and then choosing our choice. In that we are choosing **Hosting** option using space bar.

b). Selecting an option : **Use an existing project.**

c). Selecting a default firebase project for this directory**: smartaicity**

d). Creating it as a **public** directory and giving **yes** for single page app and **no** for the github actions for now.

NOTE:

Now we got a **public directory** in our project code. Then we are going to erase index.html code in public and pasting our project **index.html** code in that public index.html file.

Make sure the public folder has a file named index.html

8. Deploy to Firebase Hosting using

   Firebase deploy command.

9. Next giving continue to console.
10. Now the website has been hosted in firebase successfully.

https://console.firebase.google.com/project/smartaicity/hosting/sites/smartaicity