

CLEAN-CITY

Overview

This project tries to solve the perennial problem of garbage collection in cities. Sometimes the ratio of garbage at particular locations is more severe as compared to other locations and might require immediate attention. So how does one come to know about such locations? This is where the Clean-City project comes into the picture. By knowing exactly which location requires higher maintenance the authorities can take action.

Working

There will be a heat map of the entire city present on the main site.

A user can upload image, location of any large or small garbage collection that they may find on our website. As soon as the image is uploaded it shows up on the latest images section.

Based on the location where the image was clicked, the heat map gets filled up. Different locations will have a different color represented by the varying intensities of uploads. For example, an area marked with a green color will have lesser reports of garbage sightings while a red area shows high concentration of garbage. Therefore requiring higher attention.

There will also be a backend for admin who can see the statistics and also share the details with the authorities.

There may also be a backend for authorities like MCD who can take appropriate action and then mark off the locations where the authorities have taken action.

Tech Stack

The project will require extensive use of NodeJS in the backend.

We aim to keep the front end to be simple with Vanilla Js, Heatmap API, HTML/CSS

The github repository will be shared to interested interns.

Future Scope

The domain of the project can be expanded from garbage to other issues as well such as crime, accidents, electricity etc.

Revenue Model

The site will use Google Adsense to showcase relevant ads and take donations.