

WHY YOU SHOULD(N'T) LIVE IN LA

Project Proposal

Team 077

randomName

Yu-Ju Chang
Rui Zhou
Nidhi Chaudhari
Aniket Gargya

Introduction and Description

Our web application will use the Crime in Los Angeles Data from 2020 to Present Dataset. This dataset reflects the incidents of crime in the city of Los Angeles dating back to 2020. The data was transcribed from original crime reports typed on paper. Some of the important attributes of the data include Date of the incident, Time occurred, Area, Description of Crime, Victim Age and Sex, Premis Description, Weapon Used, and Status of the Crime.

We aim to help the people of LA stay safe and happy. Our idea is to build an application that helps its users report any crime through an application instead of them having to dial 911. The application will be designed in such a way that the location of the victim/ crime is shared immediately through GPS when someone reports a crime so the local police can be alerted immediately. This mechanism saves time for the police by eliminating duplicated reports of the same incident. If the police have GPS access to the crime location it will make the whole system faster.

Features of our application include - users being able to see which locations in the city would be particularly unsafe to visit at a particular time, being able to report crimes, and being able to search up any crime in LA from the last few years. Other than this our website offers Police officials to create their profile and handle information pertaining to a case. They can update the status of a case, also change any information that was reported incorrectly, strike off cases that were solved, etc. Police officers can also use information from our website to decide which area would need increased patrolling.

A good creative component that can improve the functionality of our application would be including a fancy UI with a map that marks out information about the filtered crimes according to the attributes selected by the users. It can color code locations on how dangerous they are. We envision to generate it by using Leaflet to generate a map and work on all the follow up coding.

We titled our Project “***Why You Should(n’t) Live In LA***”.

Summary

Our application, *Why You Should(n’t) Live In LA*, will allow users to visualize the areas where reported crimes occurred in the City of Los Angeles. This will be especially useful for visitors who want to figure out what areas to avoid while exploring the city. Users can also report their own crimes to add to the dataset, allowing our site to be a growing collection of all the available data. The police can update the status of crimes if any progress is made on a case or delete records of a crime if necessary.

Application

The application can help dispatch police forces in LA. It will be on the website which users, both police and civilians, can use. We will design a user friendly interface where both civilians and

police officers can easily use. Also, with this application, civilians and police officers can clearly see how the crime solving and committing rate is in different areas.

Usefulness

Our application will try to help police officers in LA to improve work efficiency. The application will have Search, Deletion, Insert, Update, Create functions to help LAPD decide which area is having a higher crime committing rate. In this way, the police officers can decide which area should have more security cameras or more police force. Also, We will have a map in our web application which can help visualize the crime rate across all LA areas. Moreover, civilians can use our app to report a crime if they encounter one to help the police immediately learn the basic information like the location, the victim, and the weapon used by the perpetrator.

Till now, we have not seen a similar public web app like ours which makes our application a unique one.

Realness

We will use the dataset “Crime in Los Angeles Data from 2020 to Present”, which is suggested by CS 411 TA. The dataset can be found here <https://data.lacity.org/Public-Safety/Crime-Data-from-2020-to-Present/2nrs-mtv8>. The dataset contains detailed information—like crime type, time, location, etc.—about any crimes that occurred in LA.

Work distribution

Rui: work on the backend of the system about Inserting, Creating, and how the backend can connect to the database.

Yu-Ju: working on the backend Update, Search and how the backend can connect to the database.

Aniket: work on the frontend about the layout and design of the web application and how the backend can connect to the backend.

Nidhi: work on the frontend about the layout and design of the web application and the total work check on both frontend and backend after finishing.