Project Proposal - Danger Zone

1. Describe what data is stored in the database. (Where is the data from, and what attributes and information would be stored?)

We will be using the TA proposed dataset Crime in Los Angeles Data from 2020 to present. This data is from Kaggle and information such as location, time, and type of crime committed will be stored.

2. What are the basic functions of your web application? (What can users of this website do? Which simple and complex features are there?)

Our web application will be able to allow users to see a map of where crimes most often occur and what type of crimes occur. Not only that, but there will be a feature to report crimes and add it to the database where it would show up on our website.

3. What would be a good creative component (function) that can improve the functionality of your application? (What is something cool that you want to include? How are you planning to achieve it?)

Something cool that we would want to include would be an interactive map with the locations of crimes and time of crimes affecting the UI, signaling recent crimes or severity of crime.

4. Project Title

Danger Zone

5. Project Summary: It should be a 1-2 paragraph description of what your project is.

During our project we will create a database that stores data about crimes committed in Los Angeles. We will then create a website which visualizes the locations of the crimes committed with the ability to filter by specific types of crimes or groups of crimes such as nonviolent and violent, and time ranges that the crimes were committed.We will connect the website with the database such that new database entries are reflected on the webpage. This will allow people to track where crimes are being committed, and what kinds of crimes they are.

6. Description of an application of your choice. State as clearly as possible what you want to do. What problem do you want to solve, etc.?

Our goal is to create a website where people can see which areas in Los Angeles are more dangerous. This will solve the problem of people being unaware of how dangerous of a place they are in.

7. Usefulness. Explain as clearly as possible why your chosen application is useful. Make sure to answer the following questions: Are there any similar websites/applications out there? If so, what are they, and how is yours different?

This will allow people to avoid dangerous areas, choose safer areas to live in, and know which areas they should be more careful in. Having better information about crime in an area is useful if you are not from a place and visiting or looking to move in.

8. Realness. Describe what your data is and where you will get it.

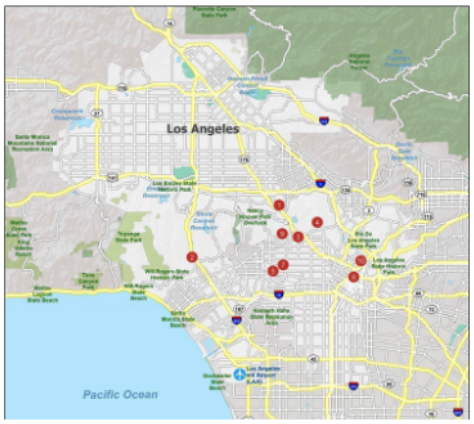
We will be getting our data from the Kaggle dataset which includes crime statistics from 2020 till the present. This data includes records, dates, locations, and type of crime committed. This data is extremely applicable to our website as it is real world data that we can implement to help our audience.

9. Description of the functionality that your website offers. This is where you talk about what the website delivers. Talk about how a user would interact with the application (i.e., things that one could create, delete, update, or search for). Read the requirements for stage 4 to see what other functionalities you want to provide to the users.

You will be able to search for crimes by area and date,and also create, read, update, and delete crime entries in the database. A user will be able to search through the entries in a table or hover over a map to view regional data. The user will also be able to create, update, and delete data from the table and see their changes reflected on regional data.

10. You should include:
    A low-fidelity UI mockup: What do you imagine your final application's interface might look like? A PowerPoint slide or a pencil sketch on a piece of paper works!

Crime Tracker



Enter Area

Report Crime

Crime	Date	Description	Location
Crime 1	Date 1	Desc 1	Loc 1
Crime 2	Date 2	Desc 2	Loc 2

11. Project work distribution: Who would be responsible for each of the tasks or subtasks?
    List of the person responsible for which exact functionalities in section 6. Explain how backend systems will be distributed across members. Be as specific as possible as this could be part of the final peer evaluation metrics.
    Vincent Ng - Create and populate database

    Alex Eilert - Do advanced SQL in backend (Triggers, procedures, etc..)

    Kyle Polson - Connect Front End to backend such that data on the database is reflected in the frontend, and the front end can make changes in the backend.

    Vidit Gautam:
    Create a functional Front End interface that visualizes crime statistics and takes in user data efficiently.