Phase 1-A and 1-B

Title: Mass Shootings in US from 2018-2022

WHAT: what data is being visualized?

The data visualized in this project revolves around mass shootings in the United States from 2018 to 2022. The dataset, sourced from the Gun Violence Archive, provides a comprehensive look at incidents involving multiple victims of firearm violence. By exploring and visualizing this data, the goal is to uncover patterns, trends, and insights that contribute to a better understanding of the scope and impact of mass shootings in the country during this time period.

Dataset: https://www.gunviolencearchive.org/past-tolls

WHY: What are the tasks (Action/Target) of the visualizations

- To compare the frequency of deceased and survivors due to mass killings.
- Present the geospatial distribution of mass shootings, highlighting regions or states with higher incidences.
- Explore the changes in the number of mass killings over the years 2018-2022.
- To display demographic details of victims and locations involved in mass shootings.

HOW: The final visualization will contain:

- **Viz1: Visualization of Task 1** - Geospatial map of mass killings in the US between 2018 to 2022.
- **Viz2: Visualization of Task 2** - On hovering on a particular state, display the statistics of mass killing incidents.
- **Viz3: Visualization of Task 3** - On clicking a particular location, it will redirect to a webpage with victim details, like name, address, either dead or injured.

Relation between Visualizations

The geospatial visualization helps illustrate the evolution of mass killings across different regions in the US, allowing viewers to observe any patterns or shifts in the numbers over time (2018 to 2022)

Interaction between of the user will help:

- Users have the ability to view the entire geographical region of the United States in order to observe the locations and specific regions within the country where mass killings have occurred.
- On hovering over each data point, users can get information on whether the person is dead or injured, including address and date.
- On clicking, users can get detailed information about a particular state, including the victim's details for each state.