**Client Expectation :**

The client is responsible for Internal Security in the State of J&K.

He needs this tool to be used as a Predictive Analysis tool. He should be able find the trendline of each kind of Attack ( Bombing, Assasination etc ).

Protective vehicles are less in numbers with the Army and are distributed uniformly across the area. Similarly Explosive Detection Dogs ( ED Dogs ) are only less in the entire country. Your tool will help in finding the concentration of Attack type - Bombing in the area which would help in allocation of the resources.

Visualizing the data gives clear patterns about the data and makes it easy for analysis.

Features:-

1. We should be able to run the Python script from the command line and it should open a Web Page in the browser .

2. UI should have a **Map tool** (Interactive Visualisation) to generate a **Scatter GeoMap** with markers for highlighting the lat/long where the incident happened basedon combinations of Month, Day, Attack Type, Region, Country, State and City.

3. User should be able to select any DAY and MONTH and based on that DAY and MONTH we need to show what incidents happened on that DAY and MONTH (maybe in any year ). We need to create a single visualization of every combination possible and it should get updated accordingly.

4. Client should be able to filter the 9 Type of Attacks ( Bombing, Assassination, Kidnapping etc ).

5. Client should be able to filter the Region, Country, State, City.

6. Hovering and clicking of the mouse should have information.

7. Separate for World and India.

8. Able to filter data based on year range slider.

9. UI should have a **Chart tool** (Interactive Visualisation) to show **Stacked Line Chart** images of the frequency of terrorist incidents each year.

10. Client should be able to group first by (Country Attacked, Region, Target Nationality, Target Type, Type of Attack, Weapon Type, Terrorist Organisation).

11. Client should be able to search based on the selected group.

12. Client should be able to filter data based on the Year.

13. Client should be able to see the detailing in a visualisation.

14. Follow Rule (overview first, zoom, compare and filter, details on demand ).

15. When a user's mouse hovers over a stripe we should show details.

16. Separate for World and India.

17. Able to filter data based on year range slider.