**Phase 1-B**

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**WEB FRAMEWORK**

**Visualizing Olympic Performance** on a

1. Geospatial Map (main page visualization) containing a choropleth map of countries world-wide participating in Olympic games over the years (1960-2016), colored by multivariate colors-scaler of “Year” and “Medals”
2. Scatter Plot (visualization 2) of GDP vs Medal tally for countries over the years
3. Tornado Graph (visualization 3) showcasing the dynamic comparison of sex, Men vs Women, in terms of medals count with variety of plot categories on y-axis to choose from: “Age Groups”, “Height Groups”, and “Popular Sports”

On the final web application, the user will have access to a control panel containing these facilities:

1. Navigation Bar to switch between 3 web pages dedicated to each visualization
2. Slider to select the year which controls all visualizations.

**Geospatial Map (visualization 1)** is interactive containing features: zoom, filter, and hover. The user can view “Medals count” and “Rank of Country”by hovering over a specific country in the year selected on the slider.

**Scatter Plot (visualization 2)** is interactive containing features: filter and hover. Each point on the plot indicates a country and is mapped using “Medals Count” and “GDP”. The user can view “Medals count” and “GDP” by hovering over a specific point in the scatter plot and manipulate the year using the slider.

**Tornado Graph (visualization 3)** is interactive containing features: filter and hover. The user can choose which category to view the data in i.e., “Age Groups”, “Height Groups”, and “Popular Sports” through a drop-down menu. This graph compares Men and Women in said categories and “Medals Count” is used to plot the bars.