USER EVALUATION

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This evaluation was performed on 3 users and their reviews were collected. Influenced by this, we have modified our dashboard and included more animations and visualizations. We have provided the dashboard screenshots before and after user evaluation. The new dashboard is more sophisticated addressing all their suggestions as mentioned below.

1. **User (Politician)**: Commented that analyzing the dashboard was readable. However, they wanted a visualization where they can compare life expectancy for multiple countries on selection.
    - Implementation: We reviewed and replaced heatmap with a bar chart that provides an option to the user to select country and year. Using this, they can compare life expectancy for the selected countries and year.

2. **User (World Bank)**: Commented that analyzing all the visualizations on the dashboard with a slider for years is confusing. Users wanted a year glider for each of the visualizations. The expectation was that the year glider would dynamically update the visualization for that particular year.
    - Implementation: We reviewed and replaced the slider with three sliders which are linked to three different visualizations with an extra button to animate. Now the user can select x1 year for one visualization and at the same time they can select x2 year for another visualization.

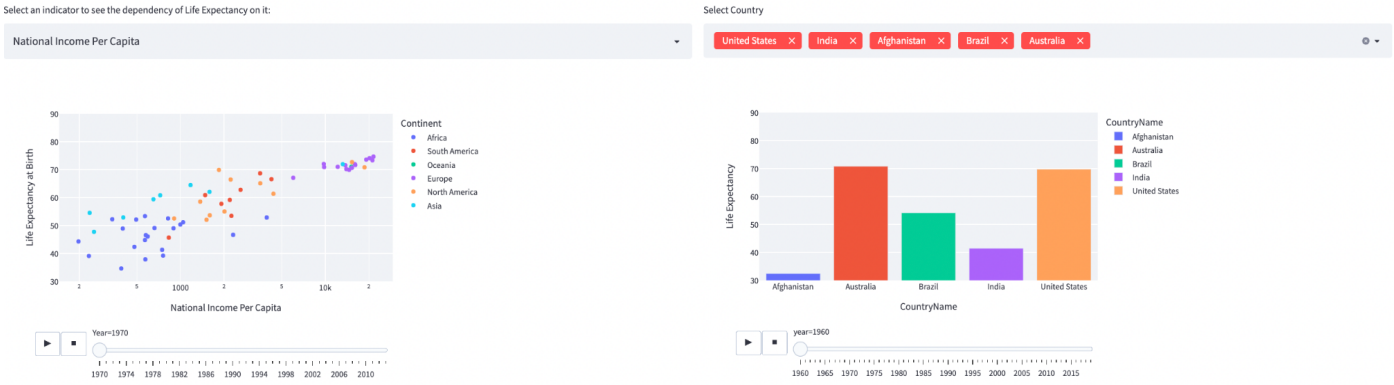
3. **User (Journalist and Politician)**: Suggested to include a way through which they can analyze the trends throughout the years.
    - Implementation: We understood this perspective from the users and included animation options for all the visualizations. This allowed the users to easily comprehend the trends across the years.

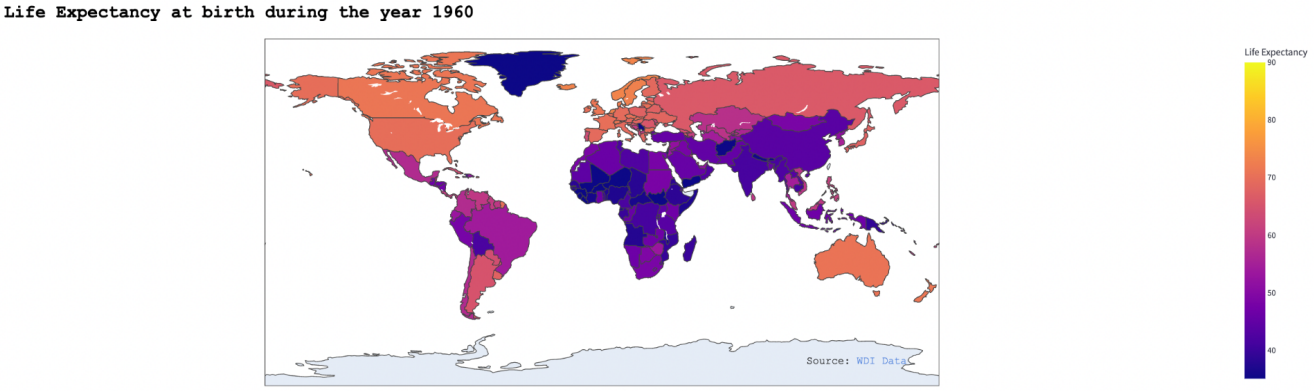
4. **User (Politician):** In earlier implementations, users faced some difficulties in identifying their country from the scatter plot.
    - Implementation: In the scatter plot visualization, we grouped the countries based on their respective continents and also colour coded each data point (countries). When the user goes through the cluster of data points of that continent and hovers over them, they can identify their country.

5. **User (World Bank and Journalist):** In earlier implementations, users faced difficulty to analyze information from the visualizations because of the size.
    - Implementations: We rearranged the size of the whole dashboard and efficiently arranged all the visualizations to get the maximum view with an additional option to expand each visualization.

6. **All Users (World Bank, Journalist and Politician):** Suggested to increase the size of the data points in the scatter plot as it was a little difficult to analyze the trends with the indicators.
    - Implementations: We incorporated the suggestion and increased the size of the data points in the scatter plot by using a simple command “pop”, “pop_size”. This allowed us to customize the size of the data points in the visualization.

FINAL DASHBOARD AFTER INCORPORATING ALL THE USER'S SUGGESTIONS





DASHBOARD BEFORE USER EVALUATION