Working Prototype and Known Problems Report

Product Name: LoL Esports Tracker
Team Name: AGJMP
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Functions not working correctly:

- Error "Each child in a list should have a unique 'key' prop" when accessing the Compare tab in the Data page
  - **Source**: ComparePage.jsx - map function
  - **Solution**: Giving each child in a list a unique 'key' prop
- Warning for an Invalid DOM property for 'frameborder' and 'allowfullscreen' when accessing the Stream page
  - **Source:** StreamPage.jsx
  - **Solution:** Update syntax for twitch stream embedded object by using new property names
- Warning for validateDOMNesting() where the <body> cannot appear as a child of <div>
  - **Source**: StreamPage.jsx
  - **Solution**: Update code to correct HTML formatting where validateDOMNesting() doesn't invoke where the <body> is a child of <div>

Problems with software:

- Requires CORS to access content from the database (Mongodb)
  - **Source**: server.py
  - **Solution**: Currently the security standard requires CORS. To avoid this, we would need to remove the CORS standard, which would create openings for data breaches.
- Cannot "unhover" a bar on the bar chart
  - **Source:** BarChart.jsx
  - **Solution**: create a custom tooltip class for hovering use
- With a many teams selected, hovering the far right bars may cut off the tooltip
  - **Source:** BarChart.jsx
  - **Solution:** Expand the svg element for the chart to include the tooltip width
- Parallel Coordinates line chart takes a few seconds to load (when changing leagues especially)
  - **Source:** ParallelCoords.jsx - unoptimized

- ○ **Solution:** can calculate some things only once or on change, rather than on every render
- Parallel coordinates line chart is unintuitive and hard to use
  - ○ **Source:** ParallelCoords.jsx - no instructions
  - ○ **Solution:** provide simple instructions or "click and drag here" on page
- Charts are statically sized and don't change based on screen size
  - ○ **Source:** Body.jsx, BarChart.jsx, ParallelCoords.jsx - not accounting for window size
  - ○ **Solution:** dynamically calculate chart size based on screen/window size
- Null data for a few players can result in empty spots on chart
  - ○ **Source:** BarChart.jsx, ParallelCoords.jsx - not accounting for null data
  - ○ **Solution:** Filter the data before passing in to visualizations, removing any null fields, OR display an empty bar or "no data" for null data
- Dropdown menus in Compare tab is dynamically sized rather than statically size, making them longer than the length of the screen space
  - ○ **Source**: ComparePage.jsx
  - ○ **Solution**: add statically assigned values to determine the maximum height of the dropdown menu (including a scroll bar)
- Sidebar is statically sized and does not fill screen height
  - ○ **Source:** DataPage.jsx, datapagelayout.css
  - ○ **Solution:** Modify the sidebar height so it dynamically resizes based on screen height