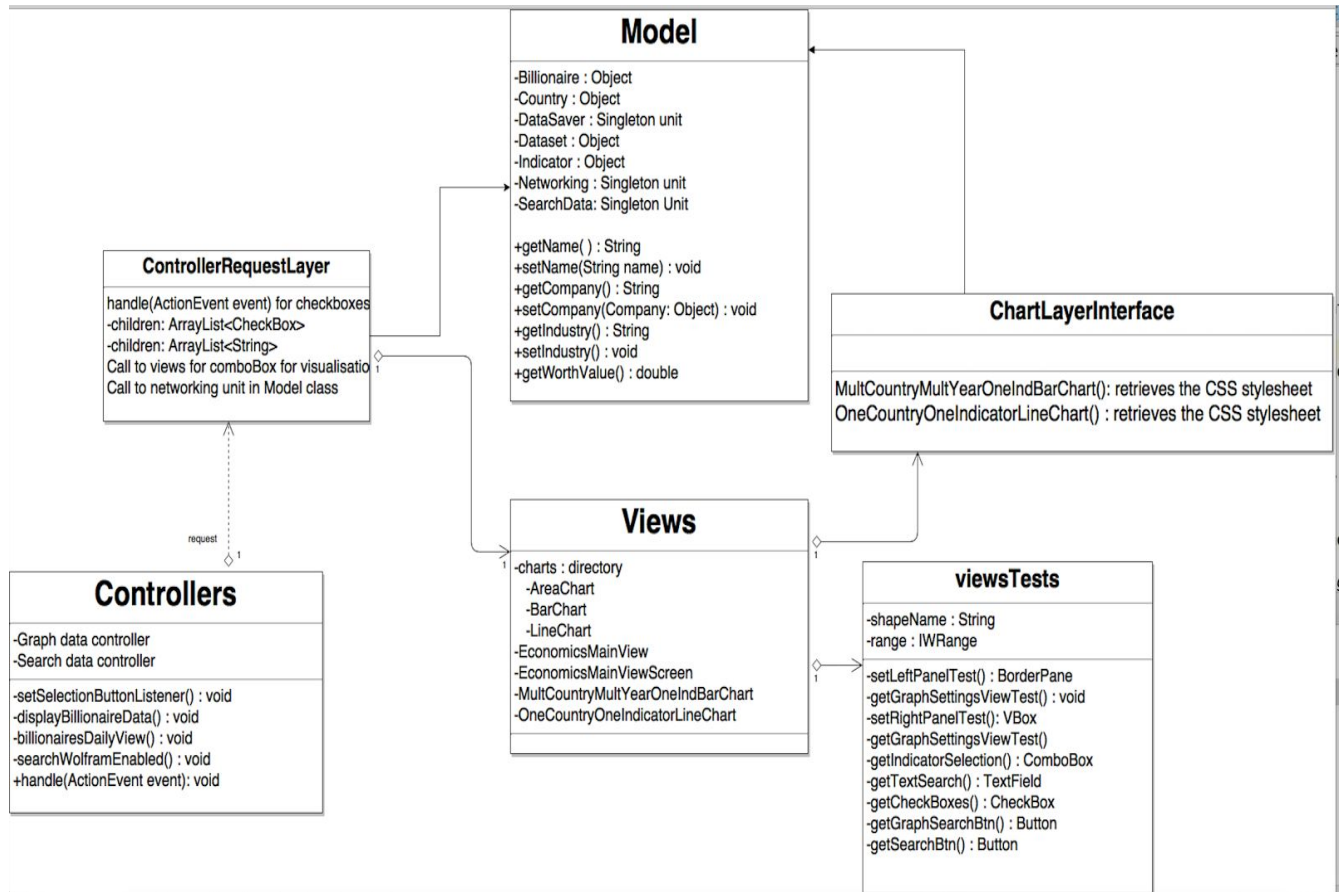


Economic Revision App

The application created is an Economic revision app and has been designed to show the latest news and statistics for different countries based on certain indicator factors and shows its comparison through different charts.

We have used the World Bank Api to retrieve real time data based on the indicators given and the Wolfram api for extra visualizations.

The basic run down of the design structure of the entire project have been given below-



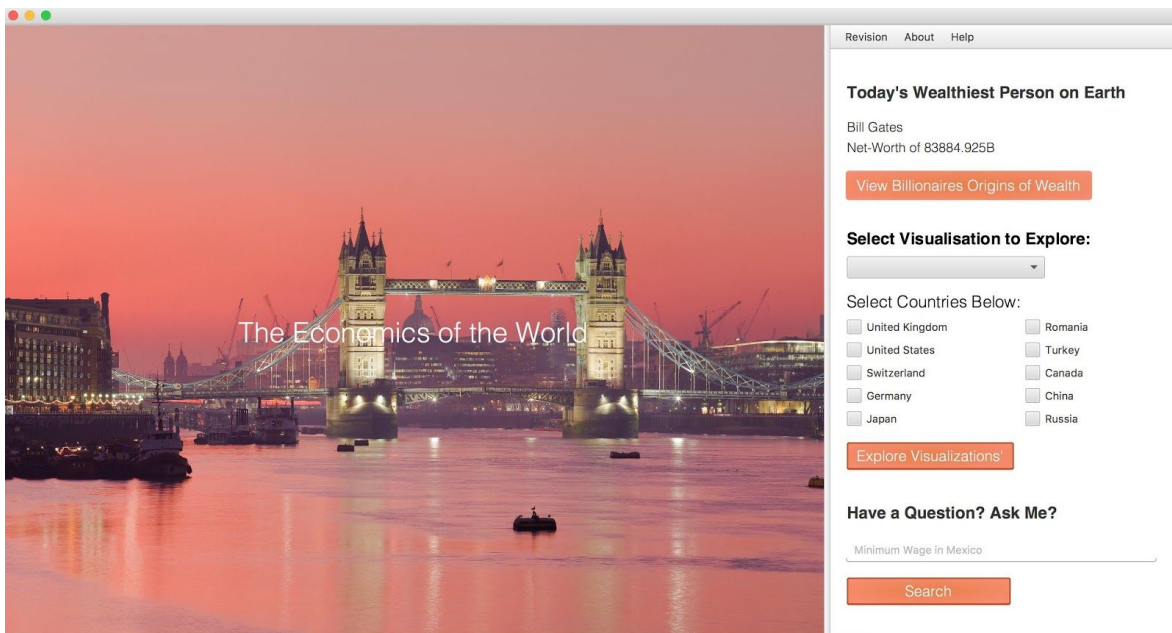
We have arranged the development structure into the MVC pattern as shown above. The main classes and functionalities are as shown.

Views have the basic functionality of displaying the main screen, which comes up when the application is started. Views functionalities are tested by the methods shown in the test files for the views.

Model deals with the main classes responsible for networking, and retrieving real time data. It calls to the **ChartLayerInterface**, which contains methods for retrieving the CSS sheets for representing the data. It also has the main objects like **Country**, **Billionaire**, which are queried in different parts of the application like in the section for quizzes and to actually project the visualizations.

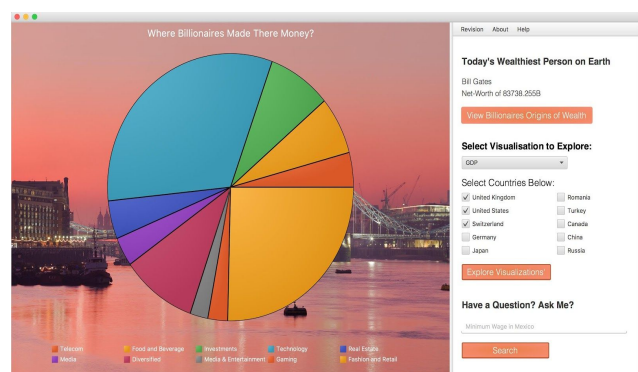
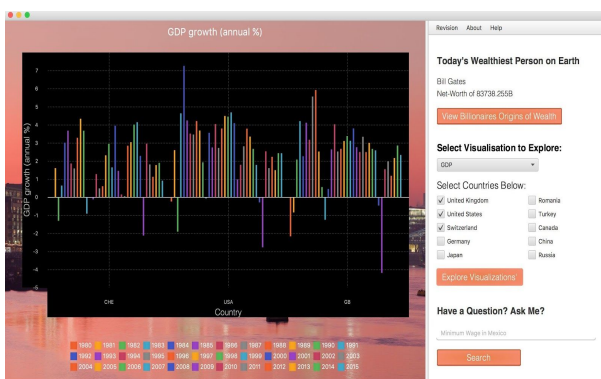
It further deals with the **ControllerRequestLayer** which interacts with the views to bring up the visualizations

Description of the application-



This is the first screen as shown. We have initially used an anchor pane for the main screen then divided the screen using a split screen. Then we have used checkboxes to select the countries whose economic indicators we want to compare.

On pressing the Show graph button, it sends a query which returns the result of the indicators and the countries selected from the checklist. Some of the other visualizations involved in the application are as given below-



Additional functionalities included a 'Fact Section' which provides a useful fact as shown alongside. Another important function was the quiz section, as shown by the second image below.

