**Project Technical Requirements:**

For this project, we have model, design, and implemented an object oriented

Charting Dashboard for data analytics and visualization for datasets in a health industry.

This Object-Oriented Dashboard is modelled and designed using

UML, and implemented using Javascript and Java, use of Freeware Charting

Libraries, tested on Firefox and Chrome platforms.

**Dashboard GUI capabilities:**

1. The ability to select a Dataset from a list of datasets in certain category; at least 5 datasets must be present for selection and testing in your final submission
2. Datasets to be read from a data file in CSV or JSON format
3. The selected dataset must be displayed as a table in the browser (Firefox or Chrome)
4. The User must be able to graph/plot the data on the Dashboard in one/many of the following chart types: Line, Bar, Pie, Stacked, Pivot
5. The user must be able select/deselect Columns for inclusion/exclusion of data from the dataset for Charting the selected data
6. The user must be able select/deselect Columns for inclusion/exclusion of selected data from the dataset for charting
7. The user must be able to filter Rows for inclusion/exclusion of the data from the dataset for charting
8. The user must be able to plot/chart basic stat data, for example, min, max, average, count, standard deviation, etc.
9. The user must be able to create and plot/chart complex analytical queries based on the column names and values for a given data set.

**Project Deliverables:**

1. Requirements and Design document has the following

* Brief project overview statement.
* Requirements/Features List (All Requirements and Features must be numbered)
* Use Cases and Use Case Diagram
* Activity Diagrams
* Sequence Diagrams
* Domain Model Class Diagram
* Design Model Class Diagram
* Documentation and class diagrams for Design Patterns used.

1. Source Code
2. Output report that has ALL captured screen-shots of your project run saved in OUTPUT.pdf
3. Video recording of 10 minutes as a demo for the run of your project using https://screencast-o-matic.com/Sdfs