

## Project Specifications-

The project is about building a simple dataApplication - where a user is able to upload a dataset, view the list of uploaded datasets. Select a dataset and create visualizations to analyze the data. This is a small but representative sample of the kind of work you will be doing @ xVectorlabs albeit at scale and complexity.

We encourage you to work on the project to get a better understanding of your interests and alignment with the kind of work you will be doing at xVector.

If you are proficient in python and javascript this project should take 3 hours of your time. We understand finding a free slot for a block of time is hard. Hence we don't have a time limit setup.

If you are stuck or have questions write to [jobs@xvectorlabs.com](mailto:jobs@xvectorlabs.com). Please use the coderbyte platform to submit your project.

Sample screens are provided - these are only schematics if you are so inclined use your creativity to extend the design.

### Task-

To upload, get and view data.

### Screens-

- 1) Simple Home/Landing page
- 2) Screen with options to -
  - a) Upload data (a csv file) with a user provided name for data.
  - b) View all data names already uploaded.
- 3) Screen with options to-
  - a) View result of computed operation on data.  
(**Input by user** - data name, column name, operation {min, max, sum}  
**Output on screen**- {min, max or sum} value of the selected column in the data)
  - b) Show plot of data.  
(**Input by user** - data name, two columns of the selected data  
**Output on screen** - Plot of selected column values against X and Y axes.

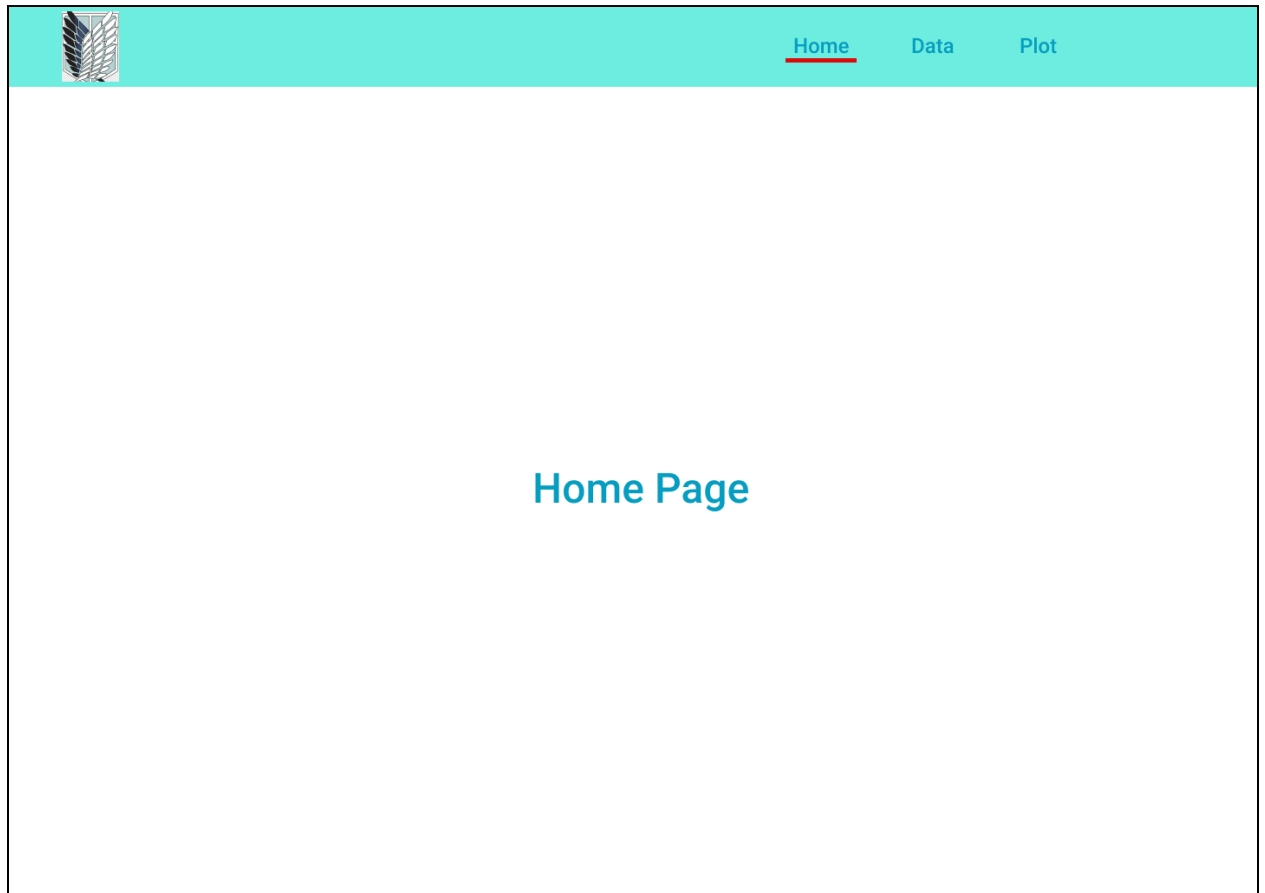
Use **Plotly.js** for the plots.)

### APIs-


- 1) [/dataset](#) , method=POST : stores a csv file with user provided data name as a table in a database (postgres)
- 2) [/dataset](#) , method=GET : gives the list of stored data.
- 3) [/dataset/:id/compute](#) , method=POST , fields:[column name, operation(min, max, sum)  
Example:  
Column1, max -> gives the maximum value in Column1 of the selected data.
- 4) [/dataset/:id/plot](#) , method=GET, fields:[column1, column2]  
Example: Column1, column2 -> gives the first 25-30 values of column1 and column2 (needed to plot against X and Y axes in the UI)

## Sample Template

### Screen1-



Screen2-



Home Data Plot

Data file 01
Data file 02
Data file 03
Data file 04
Data file 05

Choose file

No file selected

<Data file name>

Upload

### Screen3-

