Duration: 24hrs Max

Technologies involved:

Backend: Any Programming language. (Python, Java, PHP, NodeJS, etc.)

Front End: Any (JavaScript/JQuery/AngularJS/ReactJS, CSS/CSS Framework and HTML, etc)

Objective: Develop a single-page web application that displays the consolidated reports from the below data sources satisfying the below requirements.

Data sources:

The below JSON contains the list of universities from all the countries. <https://raw.githubusercontent.com/Hipo/university-domains-list/master/world_universities_and_domains.json>

The below JSON provide country and their continents mapping information.

<https://github.com/lukes/ISO-3166-Countries-with-Regional-Codes/blob/master/all/all.json>

Download the files and maintain them at the backend server and access them wherever necessary using backend programming only.

Requirements:

* Present the following charts on a webpage
  + Chart1: Present a bar graph that shows top 10 countries with the highest number of universities, the highest to the lowest number ordered from left to right.
  + Chart2: Present a bar that shows top 2 continents with the highest number of universities.
  + Chart3: Present a pie chart with the total number of universities from each continent.
* Present the following tables on a web page below the above charts.
  + Table1: List all the universities in **India**
    - Columns: University Name, Country, State/Province.
  + Table2: List all the Universities from **Europe.**
    - Columns: University Name, Country & Country Code.
  + Table3: List all the Countries with the total number of universities.
    - Columns: Country, Continent, Number of Universities.
* Hosting this app on any cloud service provider adds value.

**The App:**

1. The app must be a single-page application making API calls to the backend independently for each chart and table listed above.

**Ex:** Chart1 API call can be <https://unversitystats.com/universities/top/10/> and Table1 API can be [https://unversitystats.com/universities/india/](https://unversitystats.com/universities/top/10/).

1. The APIs must respond with JSON content type.
2. No Authentication is required, it is value added if implemented.

**Notes:**

1. Adding value or value added points are optional but they can increase the chances of being hired.
2. The code must be shared via a Git repository and should be easily deployable (if not hosted anywhere) with the necessary deployment files instructions specified in a README file.
3. If you have any questions about this please reach out to vamsidhar.muggullah@brio.co.in