

Assessment details

Requirements

1. Create a standard **JavaScript/Typescript** application using vanilla JS or any other UI framework of your choice.
2. Use **D3.js** library to build the charts (scatterplot and line charts).
3. Follow the **wireframes** (*refer page-2 of this document*) to develop an interactive page with the below functionalities:
 - a. **Chart** - The **scatterplot** should fetch data from the CSV file (provided along with this document) to show – population growth (y axis), density (x-axis) and population (bubble) sizes, for a selected year.
 - b. **Filter** - User should be able to change the year using the **dropdown**.
 - c. **Events** - User should be able to **mouseover** on bubbles to see country name and other details.
 - d. **Responsiveness** – for mobile form-factor (below 700px width) adjust the components as shown in the wireframe (for small form-factor).
4. Optional features:
 - a. The **bubble colors** can be categorized based on the continent/region. The data is not available in the CSV, you are free to add data for the same.
 - b. KPI – “**Population Growth**” is optional.

Assessment Submission

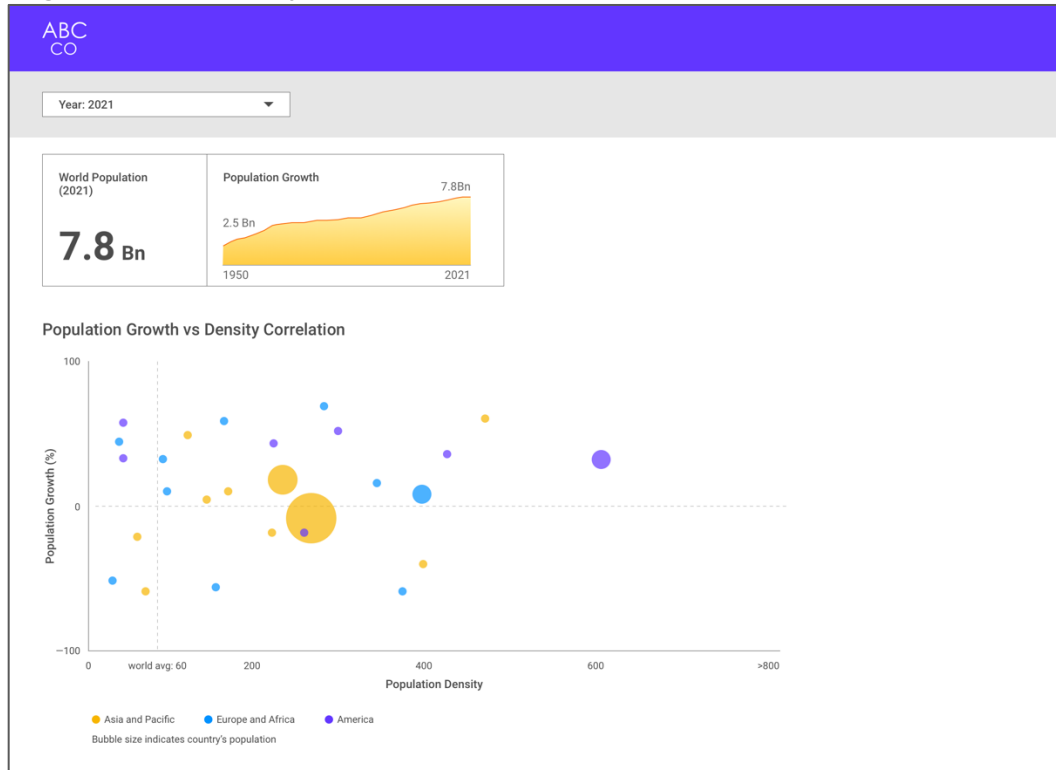
Create a repository in **GitHub**. Send a link to the repository to your LCCI Human Resources contact.

Other solution requirements

1. The submitted solution should use the latest features of JS/TS.
2. Ensure best coding practices are followed.
3. You may assume the user is using a modern browser with the following functionality
 - a. fetch etc.
 - b. const and let keywords
4. Applicants are allowed to style the application as they deem appropriate. Style of application, ease of use, and other UX features are encouraged!!
5. We appreciate the originality of the code for the D3 chart without any direct reference from external sites.

Wireframes:

Large form-factor - >700px



Small form-factor – 700px

