**VizworX: D3 Code Exercise**

We want to see how you code!

The purpose of this coding assignment is to give you a chance to show what you know, and to give us some insight into how you think about solving problems and building software. The exercises are mainly built around D3, but you can use other tools and libraries if you wish.

We've supplied data for the exercise, a CSV file with the City of Calgary Census data for 2016. It might be easier for you to access the data in your app online, you can download it here: https://data.calgary.ca/api/views/mndt-3a4i/rows.csv?accessType=DOWNLOAD.

If you have questions or if something isn't clear, please reach out to us.

**1)** Using D3, create a page that reads the 2016 census data and creates a bar graph with it. Put population on the Y axis (that's the RES\_CNT column, resident count), and put these five communities on the X axis: EDGEMONT, ACADIA, BANFF TRAIL, CRESCENT HEIGHTS, PANORAMA HILLS.

**2)** Using D3, create a page that reads the 2016 census data and creates two visualizations.

The first visualization should aggregate the resident count based on the city sector column. In other words, total up the residents for each of the nine sectors in the sector column, and show the totals for each sector.

The second visualization should aggregate the resident count based on the community structure (COMM\_STRUCTURE) column.

The page should only display one of the two visualizations at a time. Include some simple user interface controls to switch between the two visualizations.

You can choose any type of graph for the two visualizations you like, including different types for each if you want, except for bar graph.

Please share your Git or Bitbucket repository with your submission.

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