Assesment Question 1

~2 minutes

Introduction to d3

Description

Primary

Your task will be to create a graph to represent some *Discrete*, *Grouped*, and *non-continuous* data. You should use a library called [d3](#) to create this graph. The values to graph should be randomly generated. There should be a button somewhere on the page to get a new set of data and re-draw the graph. The graph should fill the entire page and resize when the window is resized.

Extension

There is also a very basic [expressJS](#) sevrer located in the `~/server` folder. You can run the server by using node and running the command `npm run start`. This server uses *[Typescript](#), the [Node Package Manager](#), and [ExpressJS](#)*. You should be able to install these by running the command `npm install`. Write a basic API request to get the graph data from the server.

You do *not* need to use the server provided if you wish to choose another system. Just include how you would write it if this is the case

Requirements

- Draw a graph using the d3 library

- Generate the points randomly

- Graph fills the window

- Graph resizes with window