CMPS 356 – Fall 2022 Web Applications Design and Development

Assignment 01 Composition and State

Instructions

- 1. The deadline for completing your work is Sunday, October 23, 2022 at 11:59:59pm
- 2. Push your code to your private repository under assignments/assignment01
- 3. Commit often and use meaningful message summaries and descriptions
- 4. Complete your work before the deadline; a late push will be ignored
- 5. Deploy your site using Vercel (https://vercel.com) and include a link in link.txt
- 6. Any form of plagiarism will be treated seriously and reported

1. Forex Dashboard

- 1. Create a Next application under assignment01.
 - 1.1. Use React to complete the following tasks.
 - 1.2. Use MUI for your user interface components.
- 2. Design a component, Pair, that displays four values for a forex pair: high, low, open, and close. It takes a forex pair name and four numerical values as properties.
- 3. Use Polygon's API (https://polygon.io) to fetch your data. Login using your GitHub account to receive an API key for the free tier
 - 3.1. Your API key should not be hardcoded into your source files. Use an environment variable to store and access it: https://nextjs.org/docs/basic-features/environment-variables
- 4. Your forex dashboard should be accessible through /dashboard.
 - 4.1. Display a responsive grid of forex pairs in the dashboard page.
 - 4.2. You should display a list of most popular forex pairs (at least 3).
- 5. Allow the user to search for forex pairs and add them to the dashboard. A forex pair should not be repeated in the most popular section and user selection.
- 6. Save the user selection of forex pairs and reload it between sessions.