

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 the user interface components.
2. Design a component, `Pair`, that displays the conversion rate for a forex pair. It takes a forex pair name and a conversion rate as properties.
3. Use `ExchangeRate`'s API (<https://exchangerate.host>) to fetch the data.
4. The forex dashboard should be accessible through `/dashboard`.
 - 4.1. Display a responsive grid of forex pairs in the dashboard page.
 - 4.2. Display all forex pairs and use USD as the default base currency.
5. Allow the user to change the base currency.
6. Save the user selection of base currency and reload it between sessions.