

CMPS 356 – Fall 2022

Web Applications Design and Development

Lab 10

Store Usage and Data Synchronization

Objective

1. Slices and stores using Zustand

Prerequisites

1. Next API Endpoints: <https://nextjs.org/docs/api-routes/introduction>
2. React Query: <https://tanstack.com/query/v4>
3. Zustand: <https://github.com/pmndrs/zustand>

1. Stores and Slices using Zustand

1. Create a new directory 01-cart-store and reuse the code from the previous lab.
2. Install Zustand: `npm install zustand`.
3. Replace the context with a store using Zustand.
 - 3.1. Create a store with an initial state and a single dispatch function. This can be achieved using the redux middleware as well.
 - 3.2. Replace the dispatch function with multiple functions corresponding to the different action types.
4. Update your cart to include the name and price for each item.
5. Add computed properties to return the total number and price of the items in the cart.
6. Use the persist middleware to save the cart between sessions.
7. Split the store into two separate slices: one for the list of products and another for the items in the cart.