

Technical Design Document

Name: Jing Cao

Website: Amazon

Github: <https://github.com/ivyjing/4012A2.git>

Pages:

- Homepage: <https://www.amazon.ca/>
- Checkout page: https://www.amazon.ca/gp/cart/view.html?ref=nav_cart

Access:

- <http://localhost:3000/>
- <http://localhost:3000/checkout>

Design decision:

I created a Amazon clone website, the two pages I chose are the homepage and the checkout page. A total of 5 reusable components I created are: header(navbar), footer, product cards on the homepage, product cards on the checkout page, and the subtotal card. All features are inside “components” folder. React router is used to switch pages. Components are accept props to make them configurable. Products information are stored in props, at Home.js. Products information are called in Product.js and CheckoutProduct.js. Header.js contains the header, which is also the navbar of all pages, it contains crucial function such as go back to the homepage, access the checkoutpage, and counting item numbers. Header(navbar), footer, subtotal card are static components.

Interactive features include clicking Amazon icon to go back to homepage, click shopping cart icon to go to the shopping cart page. Counting the items added into the shopping cart, when you add items on homepage, the number beside the basket icon will increase. Adding item to or deleting item from the shopping cart. I choose homepage and checkout page to make because they have connections, I can make the item on homepage added into shopping cart, so two pages are connected. Also, making product cards and listing items are features we learned in class, I can practice them in this project.

In order to realize the interactions, useStateValue is used when creating the add and delete item from shopping cart function. Items on homepage and checkout page are displayed using prop, taking a product’s “id, title, image, price, rating” from home, and get them to product cards. Material-icons are used for the search icon and basket icon on the homepage. Images are getting from Amazon.ca. I referenced some video to make the counting, and add/delete features, as it used reducer and dispatch which I am not familiar with.

Reference:

<https://mui.com/components/material-icons/>

<https://www.youtube.com/watch?v=RDV3Z1KCBvo> (2:08:00-2:18:11, 3:09:35-3:17:23, about stateprovider, reducer, basket and dispatch)