OSS Final Report

Student ID: 22300248

Name: Hyeonhak Do

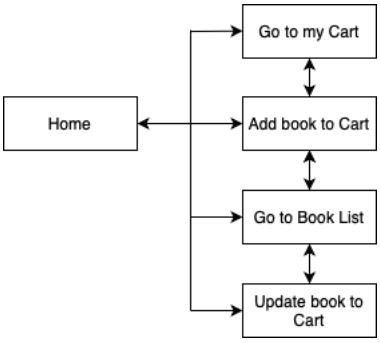
I. **Project Overview**

a. **Service Description**

i. **Team Member Names**: 22300248 Do, HyeonHak / 22100077 Kim, Dogyung / 22100791 Hyeon, Seunghun

ii. **Service Title and Key Details (Menu structure, Target audience)**:

1. **Service Name**: Handong Book 24
2. **Key Detail**
   a. **Menu structure:** We made a button for Layout to go to Home, Go to my Cart, Add book to Cart, and Go to Book List. So it can be moved from any page that exists.



   b. **Target audience:** Customers who want to buy a book or put it in their shopping cart

iii. **Description**:

Handong Book 24 is an online bookstore where you can search for books using keywords. All books can be filtered by category, and there are categories such as All, Science, and History.

Users can select a book and add it to the shopping basket. It was implemented as a CRUD function. To add a book, the user must enter the user's personal information (name, address, etc.), the number of books, and information such as coupons. Modifying the added information is the same.

This service was implemented through the Google Books API. Through this, you can check various books and related information (author, price, number of pages, etc.)

The pages of Handong Book 24 consist of Home, Add Book, Update Book, Book List, and My Cart pages. And every page has a layout, which allows users to navigate to Home, Add Book, and My Cart.

iv. **Deployment URL**: https://myfinalassignment.netlify.app

v. **Github URL**:
    1. https://github.com/DoHyeonHak/OSS_final_assignment (My Repo)
    2. https://github.com/HGU-Coding-Studio/2024-oss-final-project-DoHyeonHak (HGU Repo)

b. **Referenced Services**
    i. **Site URL and Related Pages or Styles**: https://www.yes24.com/Main/default.aspx (Yes 24)

c. **Used Open API**
    i. **API Title and Data Description**:
        1. **Title**: Google Books API
        2. **Description**:
        This API enables searching for text and provides related books' information and availability of E-Book. By using this API, we can use data such as book title, author, price, publisher, number of pages, publication year, etc.
    ii. **API Provider's Website URL**: https://developers.google.com/books?hl=ko
    iii. **How the API was Utilized**:
    We used this API to search and load books. By using the API, we helped users search for books they wanted. This allows users to obtain information on books they want and add them to their shopping cart if they want. In addition, when adding a shopping cart, some information in the book is set to automatically transfer. This reduced the amount of information users had to enter to add books to their shopping cart.

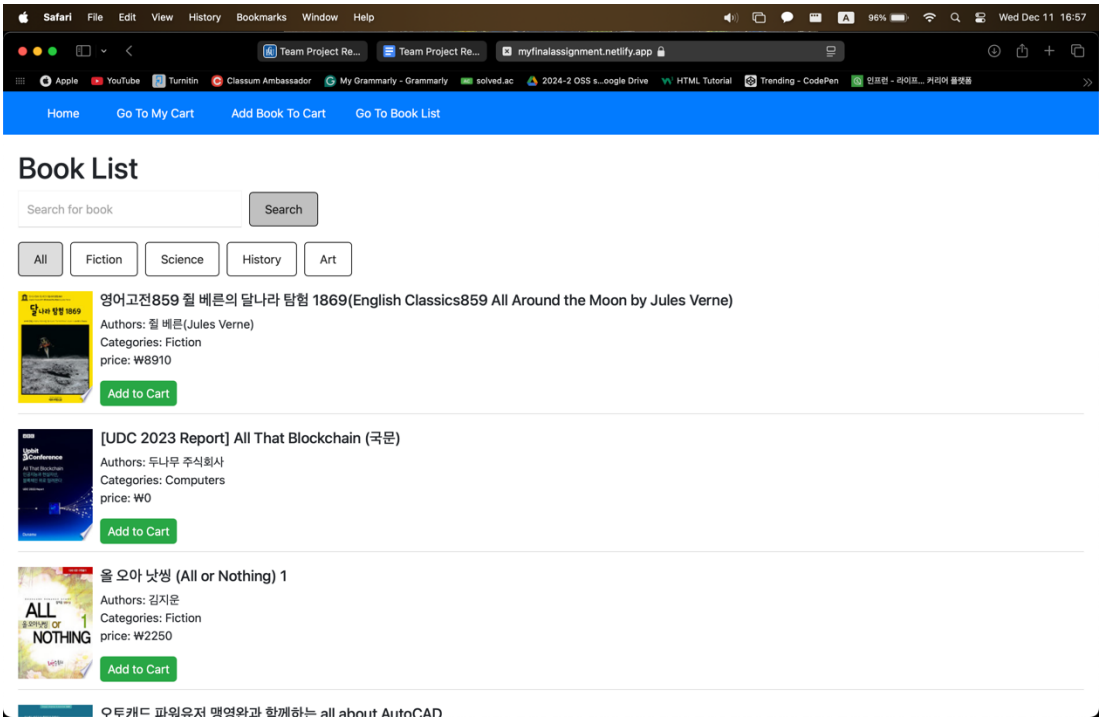
d. **Used Mock API**
    i. **CRUD Dataset**: User name, Book name, Price, Use Coupon, Quantity, Shipping date, Address
    ii. **URL**: https://6746607e512ddbd807fba991.mockapi.io/Book

II. Page(or Component) Descriptions

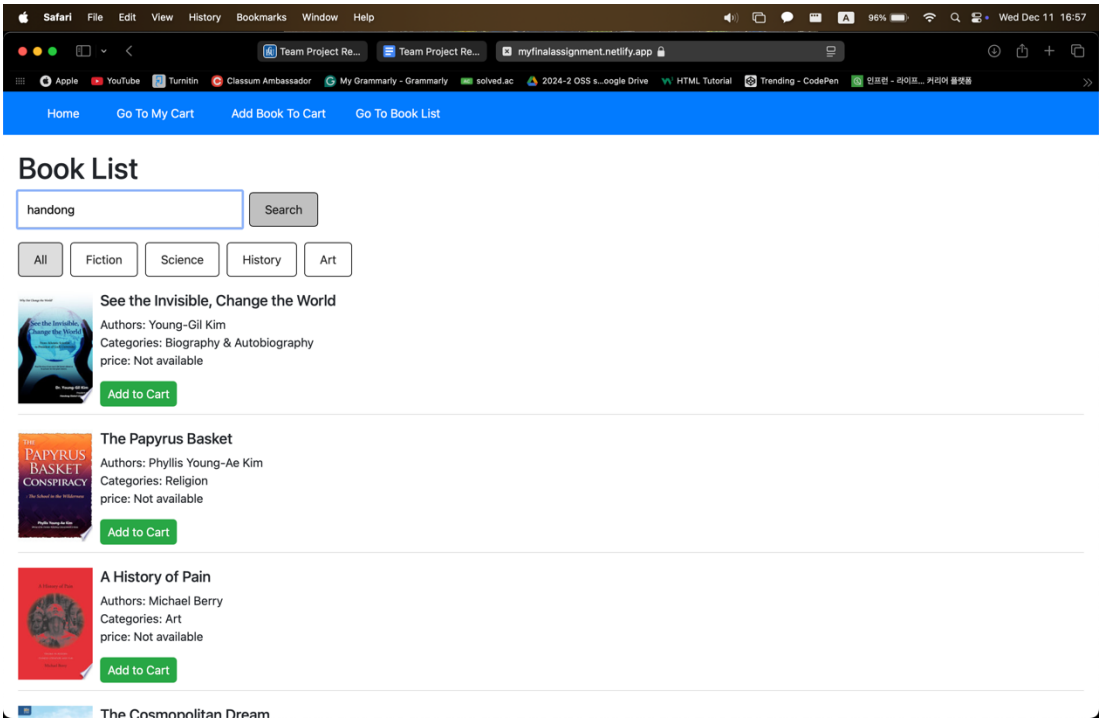
a. Screenshots and Descriptions of Pages Linked in the Router

i. List, Search, Filter Screen:

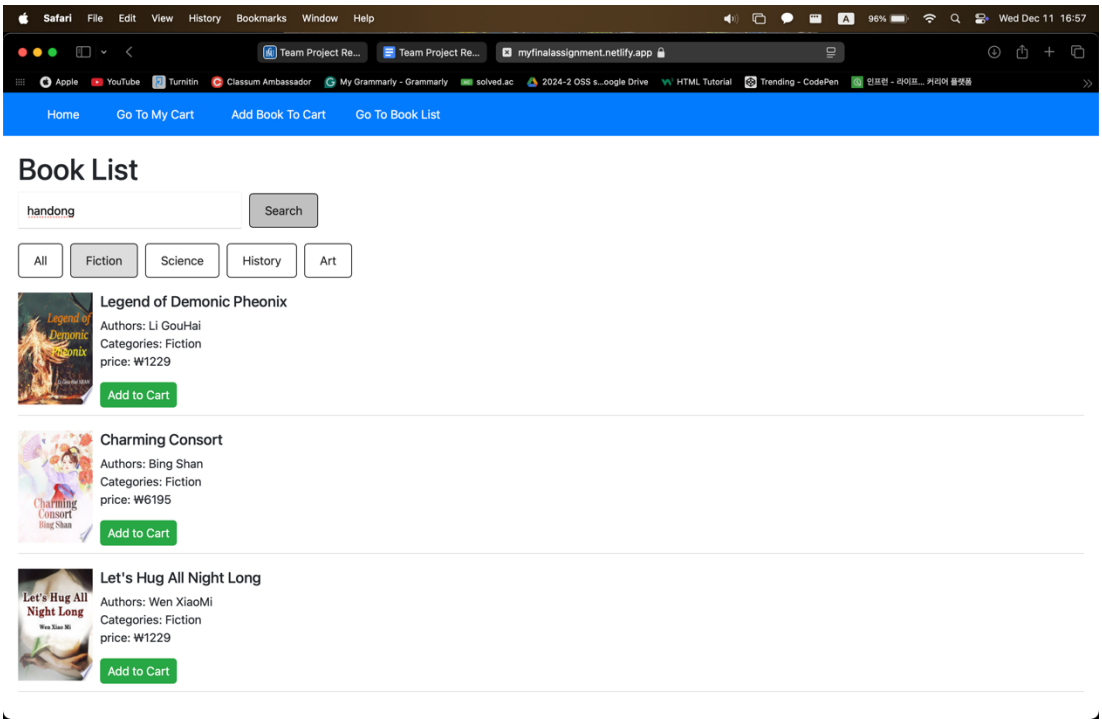
- List Page



- Search



- Filter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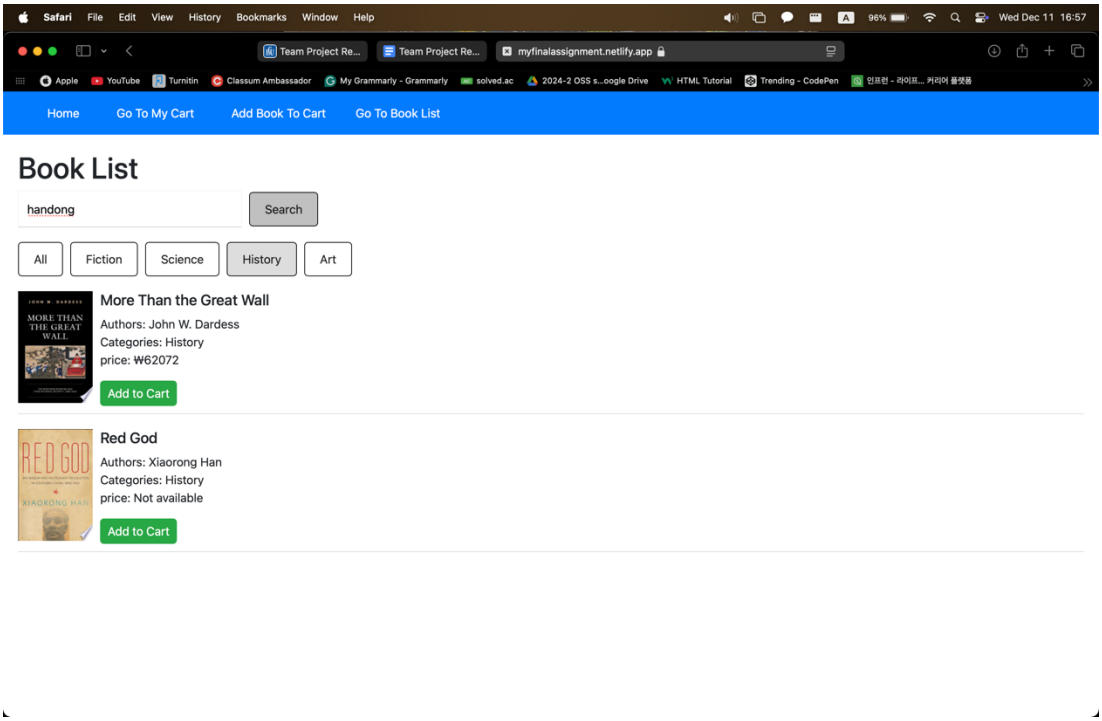
Home
Go To My Cart
Add Book To Cart
Go To Book List
Book List
handong
Search
All
Fiction
Science
History
Art
Legend of Demonic Pheonix
Authors: Li GouHai
Categories: Fiction
price: ₩1229
Add to Cart
Charming Consort
Authors: Bing Shan
Categories: Fiction
price: ₩6195
Add to Cart
Let's Hug All Night Long
Authors: Wen XiaoMi
Categories: Fiction
price: ₩1229
Add to Cart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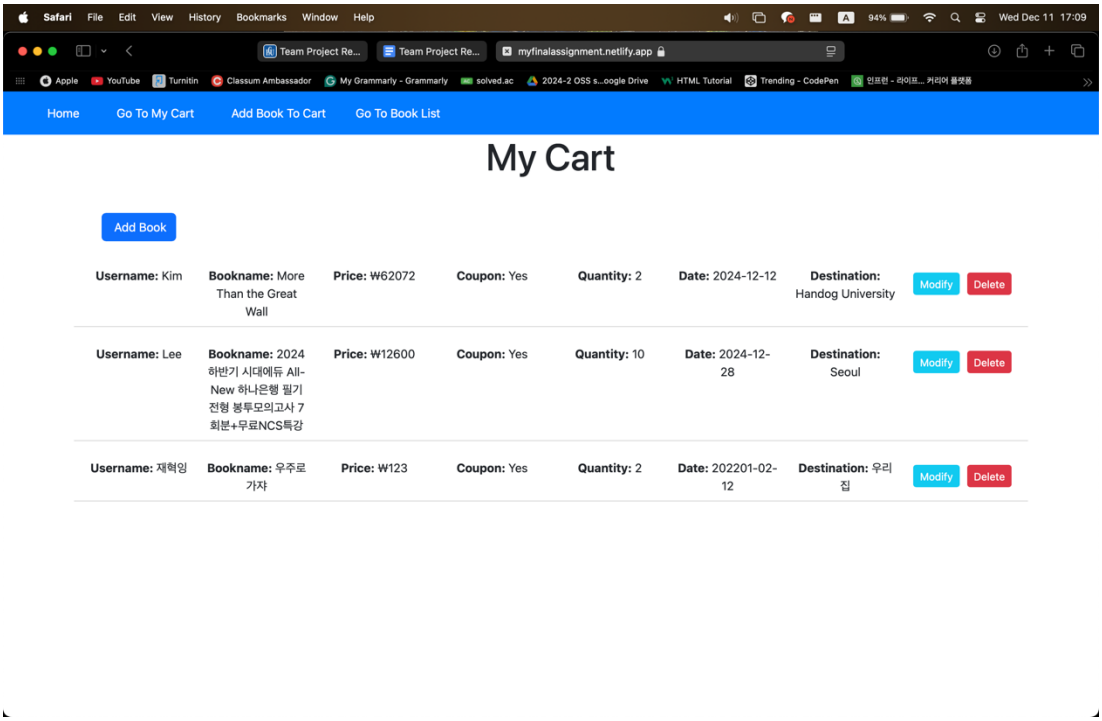
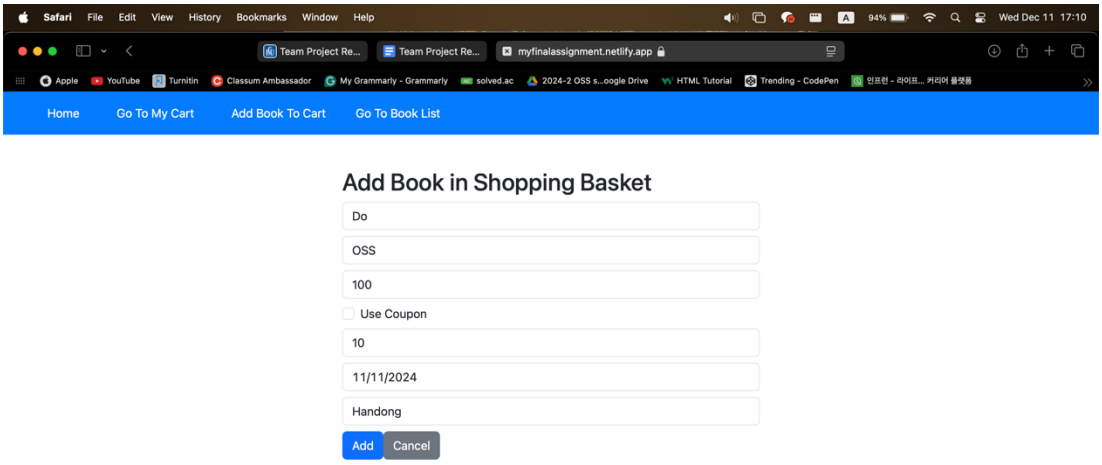
Home
Go To My Cart
Add Book To Cart
Go To Book List
Book List
handong
Search
All
Fiction
Science
History
Art
More Than the Great Wall
Authors: John W. Dardess
Categories: History
price: ₩62072
Add to Cart
Red God
Authors: Xiaorong Han
Categories: History
price: Not available
Add to Cart

ii. **Screens for CRUD Functionalities**: Sequence of My Cart, Add, Update, and Delete

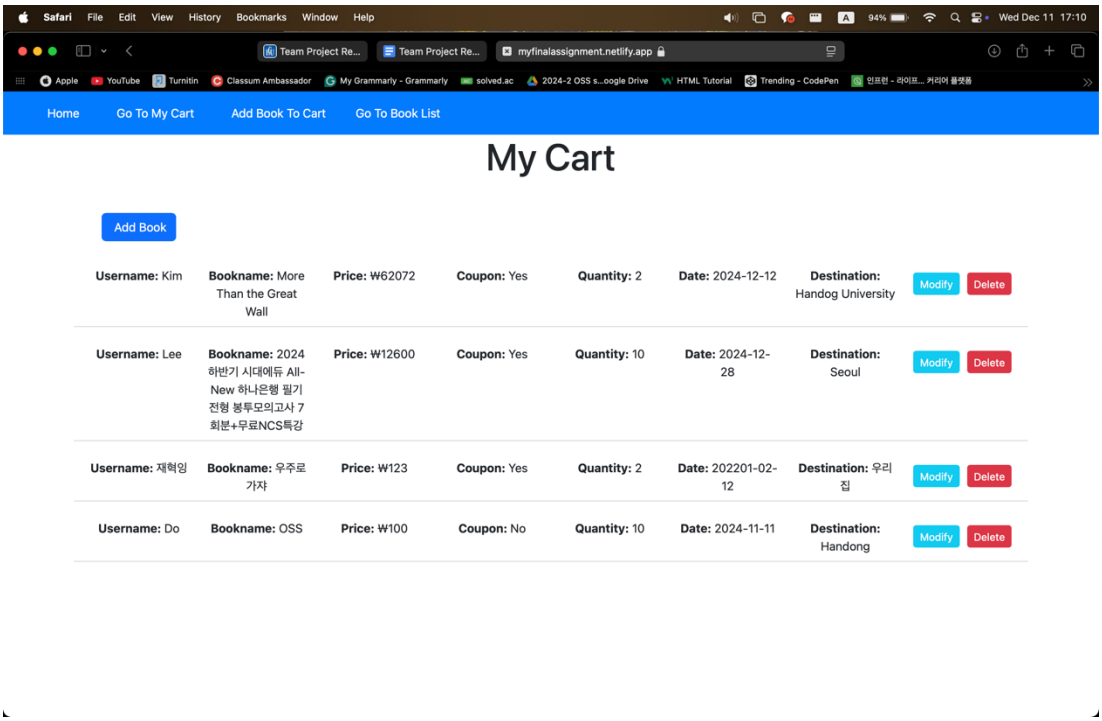
- **My Cart**



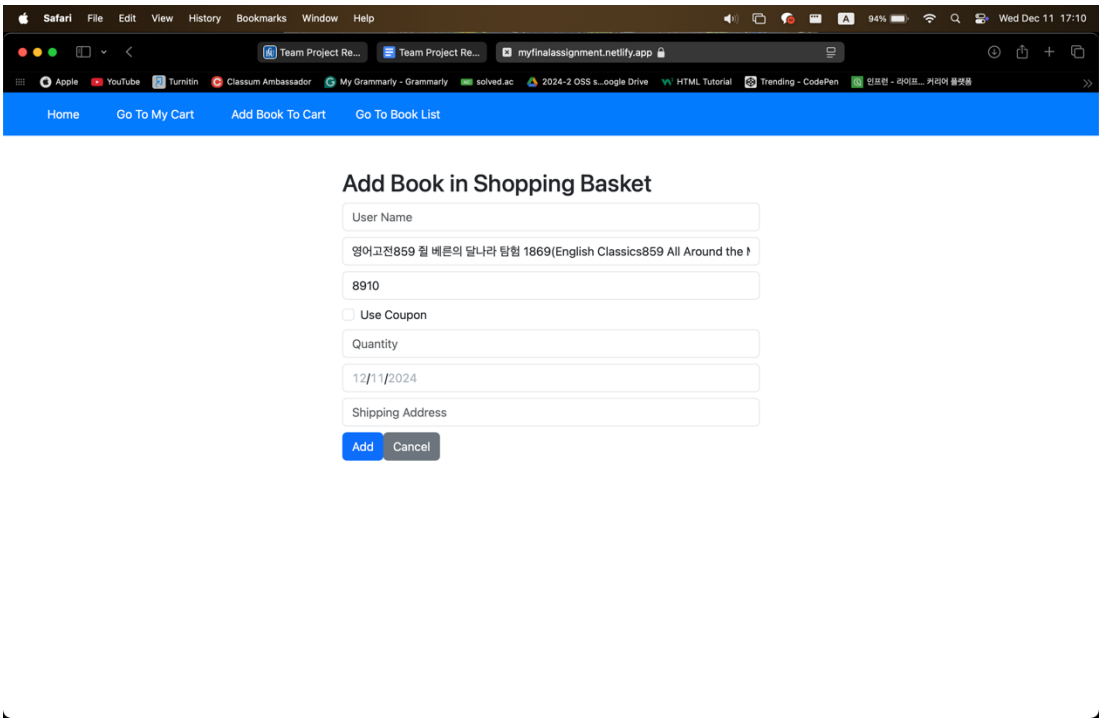
- **Add (You can add it as an "Add Book" and "Add to Cart" in the Book List.)**



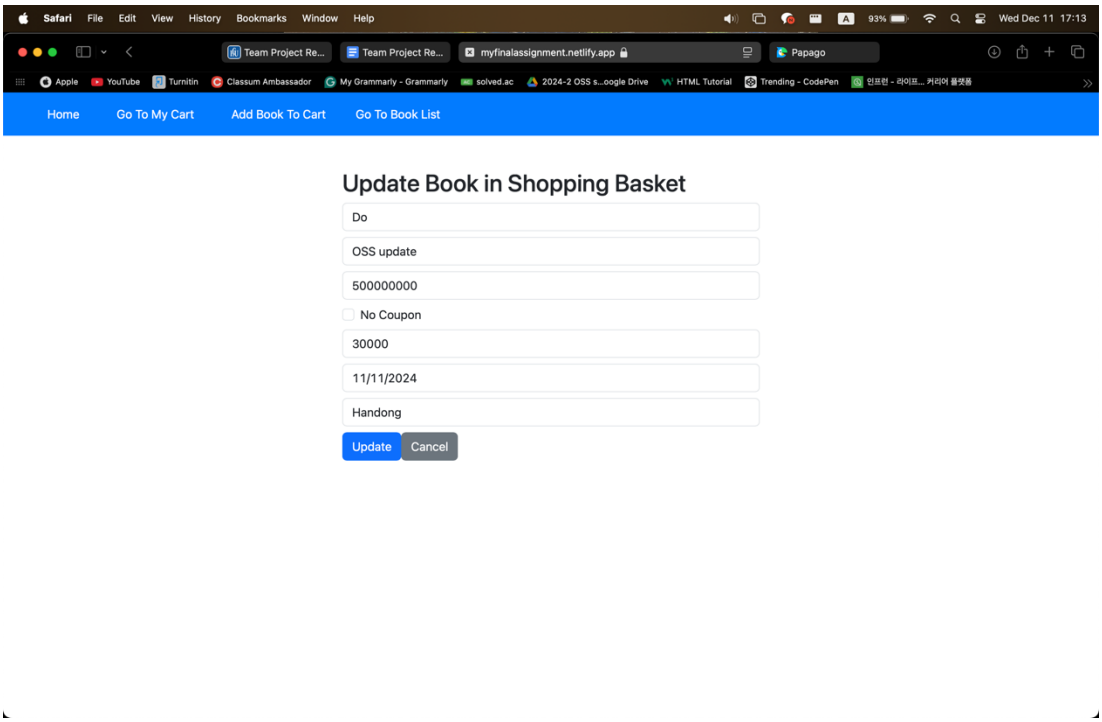
(Add result)



(If you add a book with Add to Cart, the title and price of the selected book will automatically move to the Add page.)



- **Update**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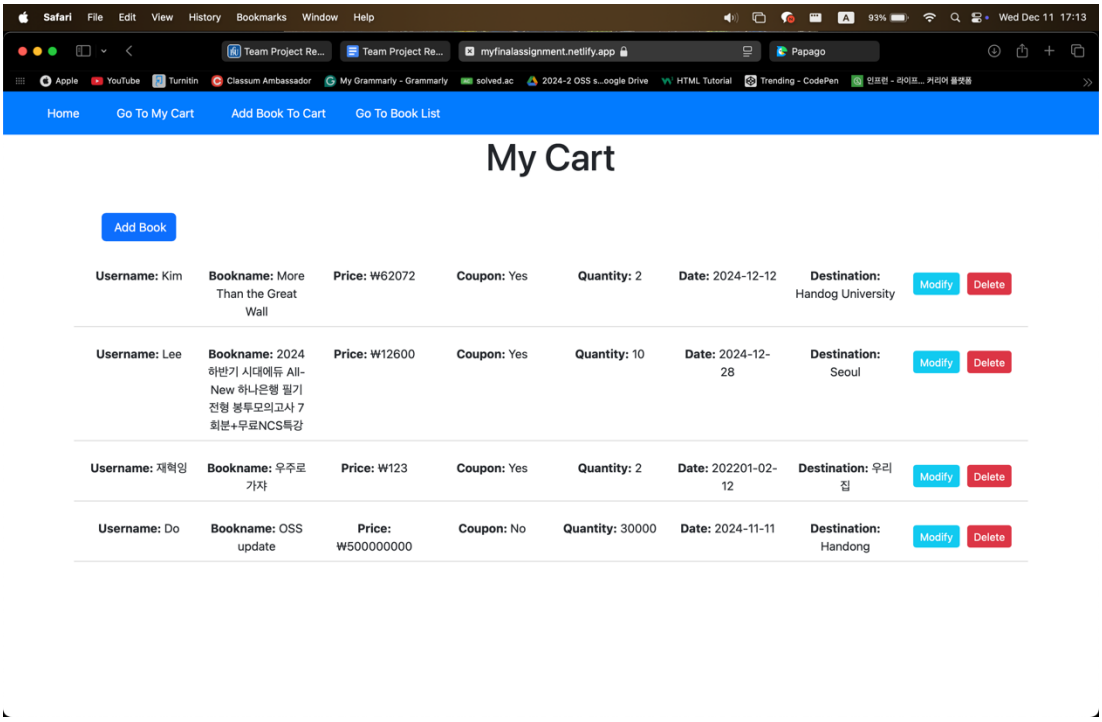
Home
Go To My Cart
Add Book To Cart
Go To Book List
Update Book in Shopping Basket
Do
OSS update
500000000
No Coupon
30000
11/11/2024
Handong
Update
Cancel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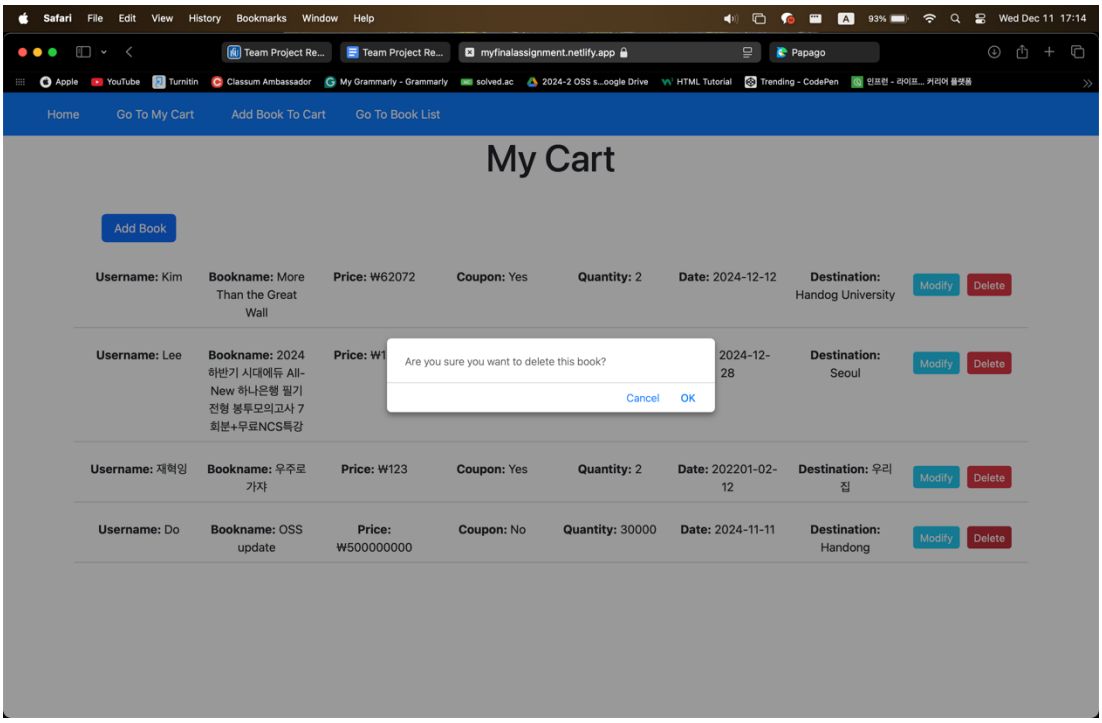
Home
Go To My Cart
Add Book To Cart
Go To Book List
My Cart
Add Book
Username: Kim
Bookname: More Than the Great Wall
Price: ₩62072
Coupon: Yes
Quantity: 2
Date: 2024-12-12
Destination: Handog University
Modify
Delete
Username: Lee
Bookname: 2024 하반기 시대에듀 All-New 하나은행 필기전형 봉투모의고사 7회분+무료NCS특강
Price: ₩12600
Coupon: Yes
Quantity: 10
Date: 2024-12-28
Destination: Seoul
Modify
Delete
Username: 재혁잉
Bookname: 우주로 가자
Price: ₩123
Coupon: Yes
Quantity: 2
Date: 202201-02-12
Destination: 우리 집
Modify
Delete
Username: Do
Bookname: OSS update
Price: ₩500000000
Coupon: No
Quantity: 30000
Date: 2024-11-11
Destination: Handong
Modify
Delete

- **Delete**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Wed Dec 11 17:14
Team Project Re...
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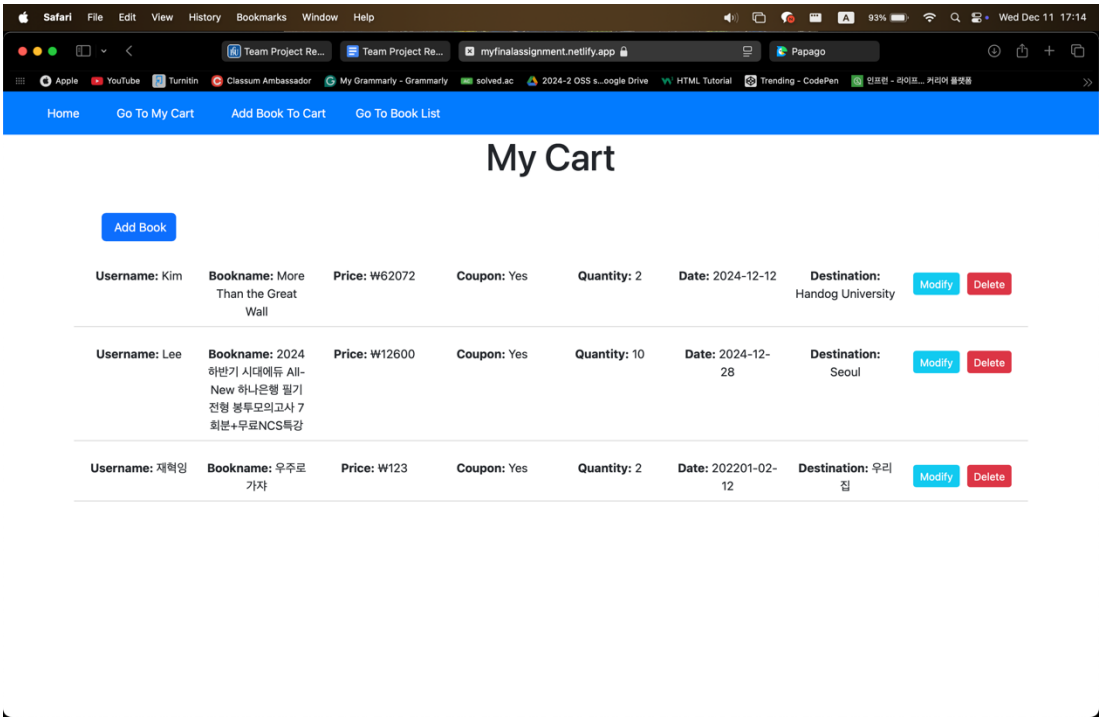
myfinalassignment.netlify.app
Papago
Home
Go To My Cart
Add Book To Cart
Go To Book List
My Cart
Add Book
Username: Kim
Bookname: More Than the Great Wall
Price: ₩62072
Coupon: Yes
Quantity: 2
Date: 2024-12-12
Destination: Handog University
Modify
Delete
Username: Lee
Bookname: 2024 하반기 시대에듀 All-New 하나은행 필기 전형 봉투모의고사 7회분+무료NCS특강
Price: ₩1
Are you sure you want to delete this book?
Cancel
OK
2024-12-28
Destination: Seoul
Username: 재혁잉
Bookname: 우주로 가자
Price: ₩123
Coupon: Yes
Quantity: 2
Date: 202201-02-12
Destination: 우리 집
Username: Do
Bookname: OSS update
Price: ₩500000000
Coupon: No
Quantity: 30000
Date: 2024-11-11
Destination: Handong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Papago
Home
Go To My Cart
Add Book To Cart
Go To Book List
My Cart
Add Book
Username: Kim
Bookname: More Than the Great Wall
Price: ₩62072
Coupon: Yes
Quantity: 2
Date: 2024-12-12
Destination: Handog University
Modify
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Username: Lee
Bookname: 2024 하반기 시대에듀 All-New 하나은행 필기 전형 봉투모의고사 7회분+무료NCS특강
Price: ₩12600
Coupon: Yes
Quantity: 10
Date: 2024-12-28
Destination: Seoul
Username: 재혁잉
Bookname: 우주로 가자
Price: ₩123
Coupon: Yes
Quantity: 2
Date: 202201-02-12
Destination: 우리 집

b. **Technology Used**

i. **Explanation of Technologies Used**:

First, our service enabled page switching using **React-Router-Dom**. Pages such as **Home**, **My Cart**, **Add Book**, and **Book List** were routed with this library. Specifically, we utilized features such as "Link" for navigation and "useNavigation" for dynamic routing, allowing smooth and user-friendly transitions between pages.

In addition, we implemented UI elements such as **buttons**, **boxes**, and **input forms** using **Bootstrap**. By leveraging Bootstrap's extensive library of UI components, we ensured a neat and visually appealing design for the service. For example, the form fields in the "Add Book" page and the navigation bar were built using Bootstrap.

Finally, we used **fetch functions** instead of **AXIOS** for making HTTP requests.

III. **Production Process**

a. **Roles of Each Team Member from the Submission of the Proposal to the Final Report:**

For service development, we divided roles for each page to proceed with development.

First, Hyeon was in charge of developing the Home page and My Cart page, as well as connecting these pages to the Mock API. And Kim worked on the Add Book page, focusing on its connection to the Mock API. Lastly, Do was in charge of developing the List page and connecting to the Google Books API.

We proceeded with the development of the CRUD page first. After the connection to the Mock API was confirmed after the page development, we proceeded with the API-connected list development work.

b. **Peer Review for Team Members**:

All members effectively fulfilled their respective responsibilities in this team project. After deciding on the service, we divided roles and proceeded with the project efficiently.

First, **Do-kyung** made significant contributions to the project's progress by quickly implementing the core CRUD functions. Then, **Hoony** completed the CRUD mechanism by developing the Home and My Cart (List) pages. Following this, I worked on writing the code to integrate the Google Books API and linked it with the CRUD program to implement the core features of Handong Book 24. Finally, we collaborated to complete the service by writing the design code together.

One aspect worth praising about my teammates is that everyone shared their responsibilities and supported each other throughout the project. While

unexpected challenges such as coding errors and implementation issues arose, we worked together to identify and resolve them effectively. This collaborative spirit greatly contributed to the success of our project.

c. **Reflections on the Team Project Production Process**:

This project provided an excellent opportunity to enhance my skills in React. While implementing various skills that can be implemented in React such as basic CRUD, Hooks, Router, and DOM, I was able to deepen my understanding of these concept and make it my skill.

Additionally, this project was a valuable experience to create a product with my peers. Developers need technical coding skills as well as the ability to collaborate together. This project allowed me to discuss and decide everything about the project, including what to make, how to implement the technology, and how to design it with my peers.

d. **Areas for Improvement in the Future**: One area for improvement is the responsiveness of components based on screen size. On the My Cart page, we implemented the CRUD function based on the full screen. However, when the screen size was reduced, we encountered issues with the arrangement of components. So after various attempts, we decided to remove the dataset bar and put the data names one by one for each entry, and in this case, the arrangement was maintained regardless of the size of the screen. The problem was solved, but the result was different from the plan we originally conceived. So we will study more technology and improve this area.