

"Note: Initially, I did not use MUI components or React Context because I noticed this requirement later during development and did not have enough time to refactor. Instead, I utilized the ShadCN library in place of MUI and React.useState for state management instead of React Context. However, in my current project, I am familiar with and actively use Redux Toolkit for state management."

Command to run:

1. **npm install** - to install all packages and dependencies.
2. **npm run dev** - to run frontend on port 4000 locally.

Explanation:

1. The first page of the app is the **Products** page which will display all of the products in the system.

Management System

Products

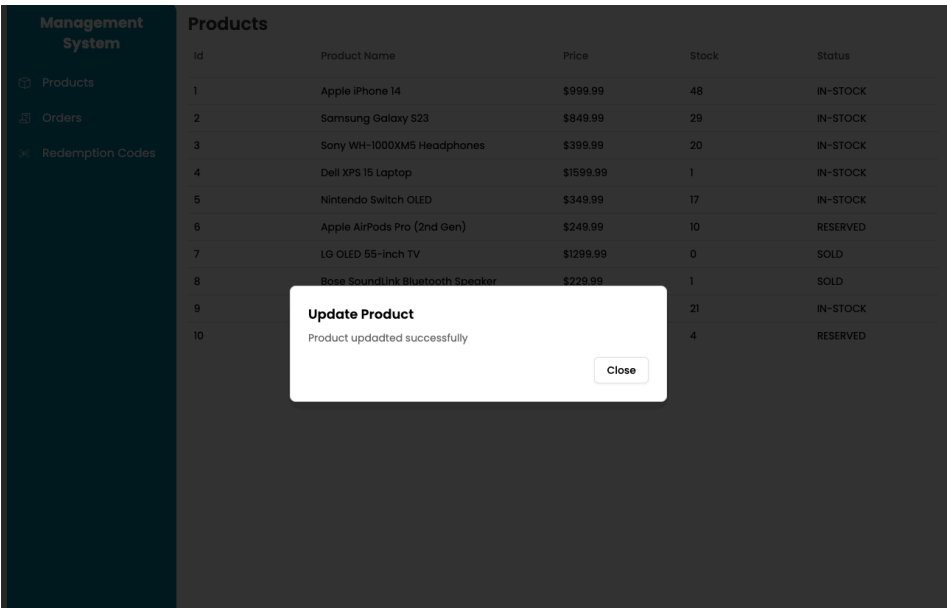
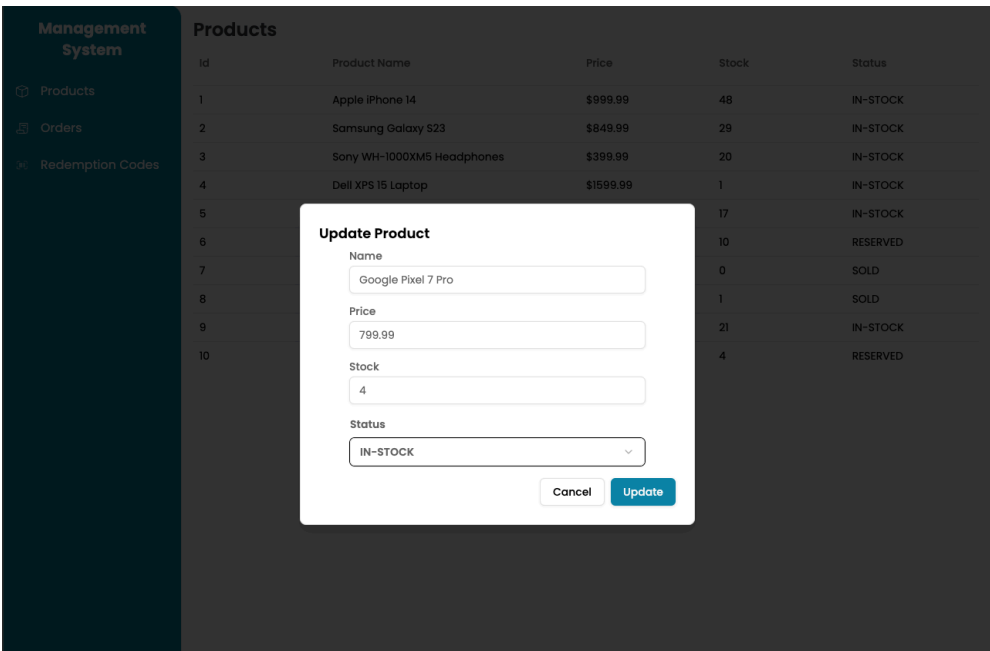
Orders

Redemption Codes

Products

Id	Product Name	Price	Stock	Status
1	Apple iPhone 14	\$999.99	48	IN-STOCK
2	Samsung Galaxy S23	\$849.99	29	IN-STOCK
3	Sony WH-1000XM5 Headphones	\$399.99	20	IN-STOCK
4	Dell XPS 15 Laptop	\$1599.99	1	IN-STOCK
5	Nintendo Switch OLED	\$349.99	17	IN-STOCK
6	Apple AirPods Pro (2nd Gen)	\$249.99	10	RESERVED
7	LG OLED 55-inch TV	\$1299.99	0	SOLD
8	Bose SoundLink Bluetooth Speaker	\$229.99	1	SOLD
9	Microsoft Xbox Series X	\$499.99	21	IN-STOCK
10	Google Pixel 7 Pro	\$899.99	3	IN-STOCK

2. Each product includes an option to update its details with a simple click.



3. The second page, the **Orders** page, displays all orders in the system and includes a button at the top right to create a new order.

Management System

- Products
- Orders
- Redemption Codes

Orders

+ Create Order

Id	Customer	Products	Total Price	Code	Status
1	Michael Wilson	1x Nintendo Switch OLED	\$349.99	-	COMPLETED
2	Michael Wilson	1x Microsoft Xbox Series X	\$499.99	-	COMPLETED
3	Michael Wilson	1x Microsoft Xbox Series X	\$489.99	PROMO10	PROCESSING
4	John Doe	1x Nintendo Switch OLED	\$349.99	-	PROCESSING
5	John Doe	1x Nintendo Switch OLED	\$349.99	-	PROCESSING
6	Alice Johnson	1x Apple iPhone 14	\$999.99	-	PROCESSING
7	Alice Johnson	1x Apple iPhone 14	\$999.99	-	PROCESSING
8	Alice Johnson	1x Bose SoundLink Bluetooth Speaker	\$229.99	-	PROCESSING
9	Alice Johnson	1x Bose SoundLink Bluetooth Speaker	\$229.99	-	PROCESSING
10	Jane Smith	1x Microsoft Xbox Series X 1x Bose SoundLink Bluetooth Speaker	\$719.98	PROMO10	PROCESSING
11	Alice Johnson	1x Samsung Galaxy S23	\$849.99	-	PROCESSING
12	Jane Smith	1x Microsoft Xbox Series X	\$499.99	-	PROCESSING
13	Emily Davis	1x Bose SoundLink Bluetooth Speaker	\$229.99	-	PROCESSING

4. The Create Order page allows you to search for a customer and product, apply a discount code, and view an order summary on the right. It will show the user current balance after selecting a user. After completing all the details, click the 'Create Order' button to finalize the process.

Management System

- Products
- Orders
- Redemption Codes

Orders > Create new order

Customer

John Doe

Current balance : \$9300.02

Product

Quantity

Samsung Galaxy S23

1

Dell XPS 15 Laptop

1

Microsoft Xbox Series X

1

+ Add product

Code

PROMO10

APPLY

Order summary

1x Samsung Galaxy S23- \$849.99

1x Dell XPS 15 Laptop- \$1599.99

1x Microsoft Xbox Series X- \$499.99

10% discount

Total price: \$2654.97

Create Order

5. The **Redemption Codes** page displays all codes in the system.

Management System

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Products

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Orders

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Redemption Codes

Redemption Codes

Id	Code	Discount	Status
1	PROMO10	\$10.00	active
2	PROMO20	\$20.00	inactive
3	SAVE10	\$10.00	active
4	HOLIDAY15	\$15.50	inactive
5	WELCOME20	\$20.00	active
6	DISCOUNT5	\$5.00	inactive

Plans and Future improvements:

- Implement pagination UI for each page.
- Implement edit or update orders UI to update order status and other details.
- Implement UI to edit and update redemption codes.
- Implement field validation for each form.