ReactJS

Training Assignment

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Hanoi, Oct/2021

RECORD OF CHANGES

Full	Effective Date	Change Description	Reason	Reviewer	Approver
1	Oct 29,2021	Create new assignment	Create	ThuanNH3	VinhNV

Contents

FRESHER ACADEMY		
	CODE:	ASM6- ReactJS-shopping-cart-app
	TYPE:	N/A
	LOC:	N/A
	DURATION:	N/A

I. Objectives

- Initialize a CRA project with Redux/MobX.
- Get the basic concepts of Redux and apply them to practice.
- Use Redux/MobX to manage the global state within a React project.
- Handle basic asynchronous operations with Redux-Saga.

II. Overview of the app

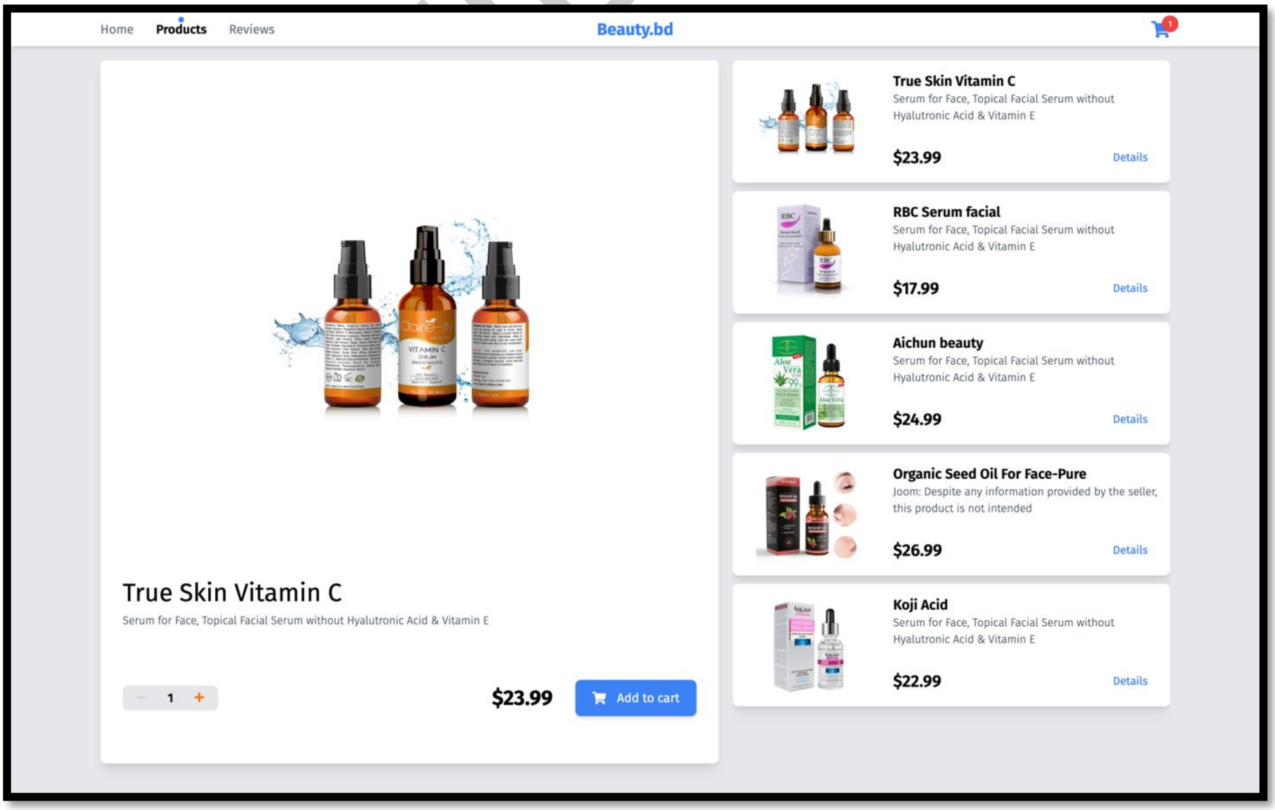
1. Features:

- Display product list and product details.
- Add products to the cart, change quantity of products.
- Simple payment feature.

2. Interface:

- The app's interface can be found at the following link:

  https://fa-react-shopping-carts.vercel.app



True Skin Vitamin C

Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E

$23.99

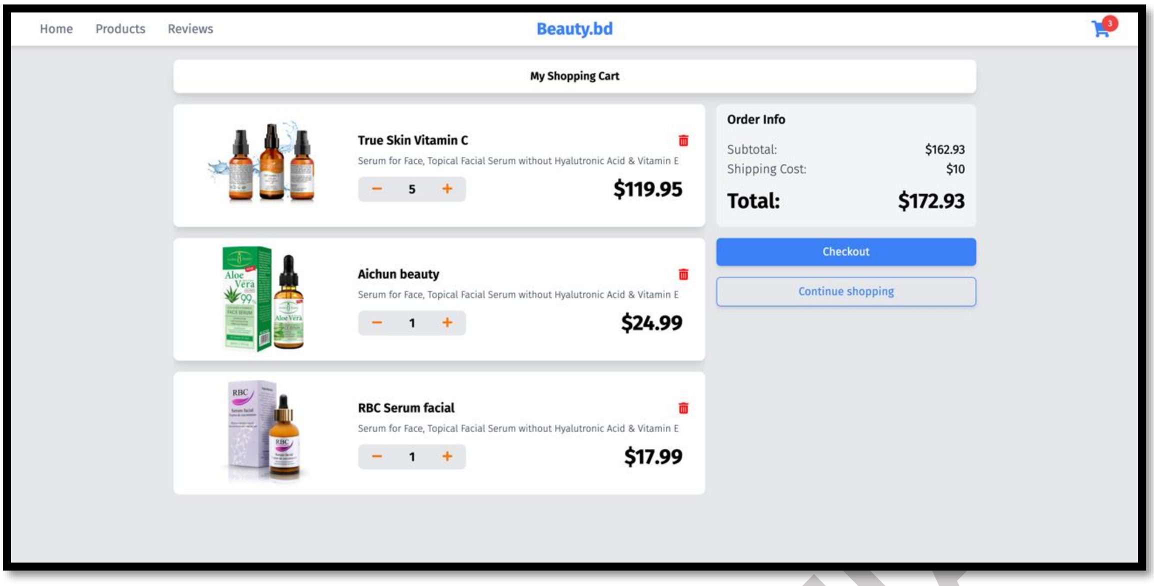
True Skin Vitamin C
Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E
$23.99 Details

RBC Serum facial
Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E
$17.99 Details

Aichun beauty
Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E
$24.99 Details

Organic Seed Oil For Face-Pure
Joom: Despite any information provided by the seller, this product is not intended
$26.99 Details

Koji Acid
Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E
$22.99 Details


Home
Products
Reviews
Beauty.bd
3
My Shopping Cart
True Skin Vitamin C
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 5 +
$119.95
Aichun beauty
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 1 +
$24.99
RBC Serum facial
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 1 +
$17.99
Checkout
Continue shopping

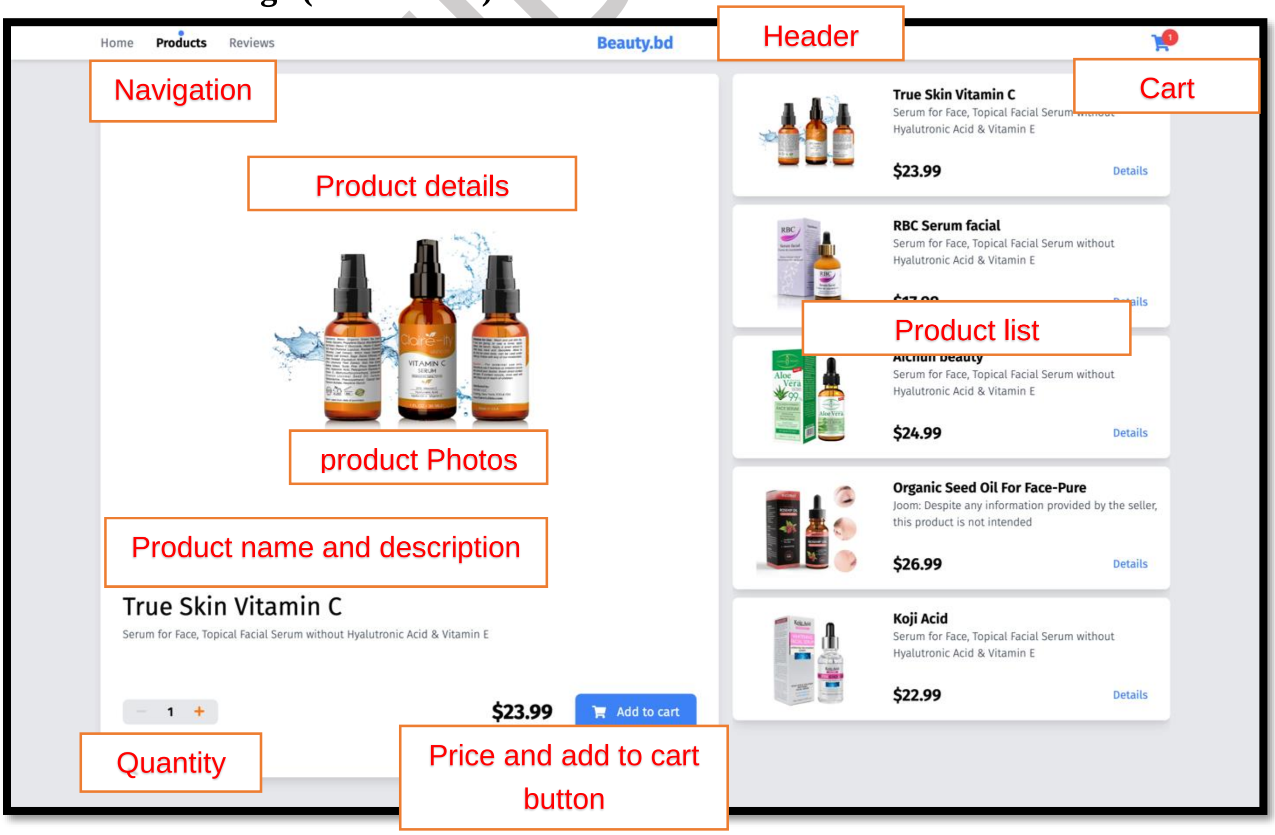
Order Info

Subtotal:	$162.93
Shipping Cost:	$10
Total:	**$172.93**

- The app has two screens:
    - Product page.
    - Checkout page.

III. Details

1. Product Page (Products O):


Home
Products
Reviews
Beauty.bd
1
Header
Navigation
Cart
Product details
product Photos
Product name and description
True Skin Vitamin C
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 1 +
$23.99
Add to cart
Quantity
Price and add to cart button
Product list
True Skin Vitamin C
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
$23.99
Details
RBC Serum facial
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
Details
Aichun beauty
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
$24.99
Details
Organic Seed Oil For Face-Pure
Joom: Despite any information provided by the seller, this product is not intended
$26.99
Details
Koji Acid
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
$22.99
Details

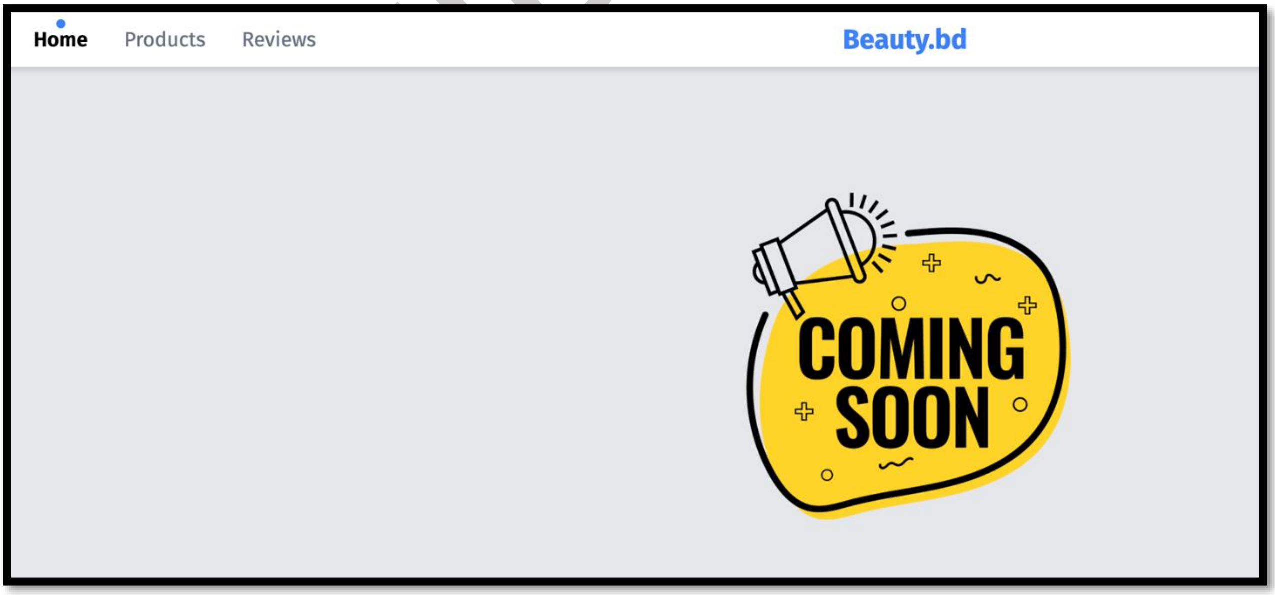
Requirements:

a) Interface:

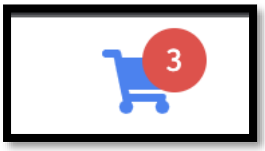
- The header:
    - Navigation: Home, Products and Review
    - Cart
- Product list:
    - Displays a list of products that include the following information: Photo, name, description, and price of the product.
- Product details: Displays the details of a product.
    - Product photo.
    - Product name and description.
    - Product quantity.
    - Product price and add to cart button.

b) Function:

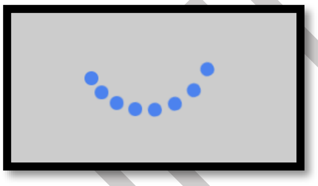
- Header:
    - Navigation: Includes 3 links Home -(/home), Products - (/products), Reviews(/reviews).
    - Here we only work with the Products page and when we click on Home and Reviews, it will show up as follows:



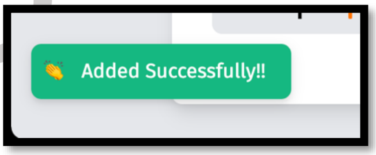
- Cart: When clicking on the cart icon, go to the checkout page (/checkout). When adding any product to the cart, the number of products in the cart will be displayed.



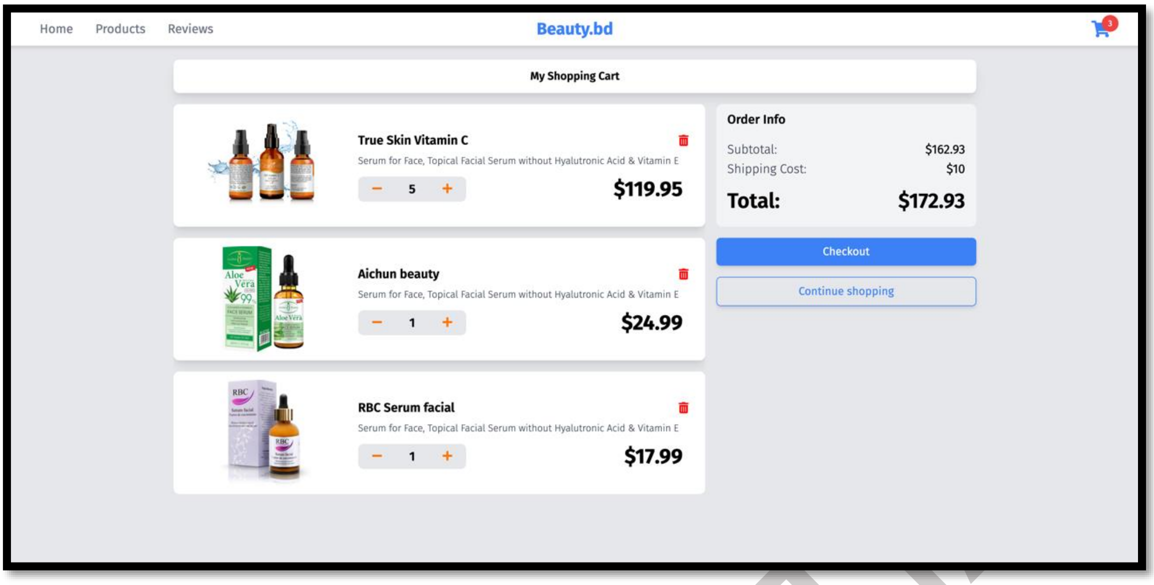
- Product list:
    - Displays a list of all products. When clicking on the product name or the Details button, the product information in the product details section on the left will be updated accordingly.
- Product details:
    - The product image, name and description will be updated accordingly when the user selects any product from the product list.
    - The default quantity is 1. The user can increase or decrease the number of products by clicking the (+) or (-) buttons. When the minimum or maximum number of products is reached, the (+) or (-) buttons will be disabled and can no longer be clicked (minimum 1 and maximum 99)
    - When increasing or decreasing the number of products, the price will be changed accordingly.
    - Clicking the add to cart button will add the product to the cart.
- Bonus:
    - Display loading when retrieving products from the server.



    - If the product is already in the cart, it will only update the quantity of that product in the cart, not add a new product to the cart.
    - When adding a product successfully, display a toast notifying to user:


Added Successfully!!

2. Checkout page:



My Shopping Cart

True Skin Vitamin C
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 5 +
$119.95

Aichun beauty
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 1 +
$24.99

RBC Serum facial
Serum for Face, Topical Facial Serum without Hyaluronic Acid & Vitamin E
− 1 +
$17.99

Order Info

Subtotal:	$162.93
Shipping Cost:	$10
Total:	**$172.93**

Requirements:

a) Interface:

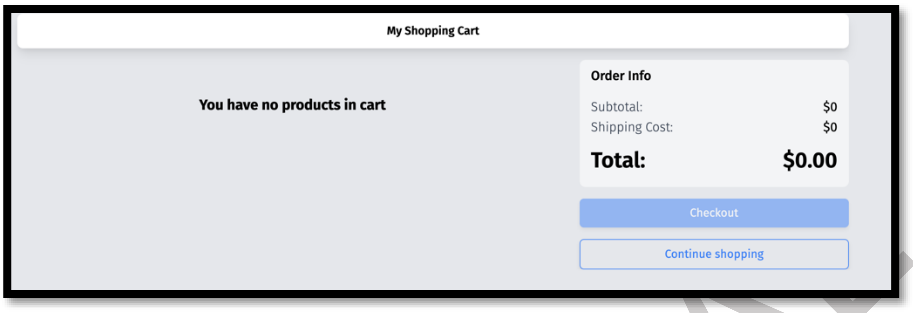
- Product information:
  - Display products that have been added to the cart
  - Product details: Include photo, name and product description.
  - Shows how many products have been added to the cart and the corresponding total price.
  - A delete button to delete the product.
- Price:
  - Subtotal: Displays the total price of all products in the cart.
  - Shipping Cost: Delivery fee (default is $10).
  - Total: Subtotal + Shipping Cost.
- Actions:
  - Checkout button: Payment.
  - Continue Shopping: Return to the product page.

b) Function:

- Product information:
  - Each product will correspond to one row.
  - When increasing, decreasing or deleting products, the price of each product and the total price will change accordingly.
  - When there is no product in the cart, display: You have no products in cart.

- Actions:

- When clicking Checkout button, the cart information is sent to the server. After the server returns a successful result, redirect the user to the Products page and delete all products in the cart.
- When there are no products in the cart, checkout button will be disabled and unable to click.


My Shopping Cart

You have no products in cart

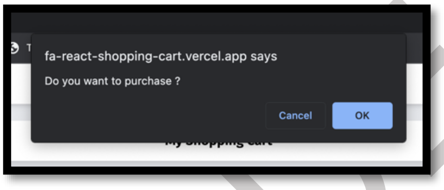
Order Info

Subtotal: $0

Shipping Cost: $0

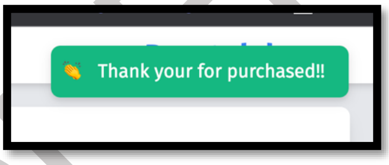
Total: $0.00

- **Bonus**:
  - Reduce the number of products to zero, the product will automatically removed from the cart.
  - Before checkout shows a confirmation pop-up.


fa-react-shopping-cart.vercel.app says

Do you want to purchase ?

  - During requesting to the server, display loading icon to the user.
  - After the payment is successful, a toast message will be displayed:

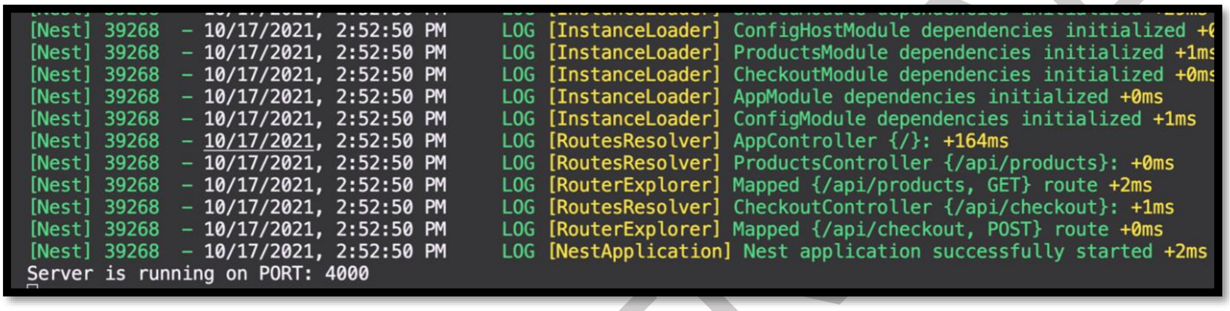

Thank your for purchased!!

3. Color codes and font:

- App background color: #E5E7EB
- Logo/Cart/Buttons Blue: #3B82F6
- Plus/minus quantity button: #FF7300
- Red cart quantity / Delete button: #EF4444
- Green: #10B981
- Font: Google font Fira-Sans https://fonts.googleapis.com/css2?family=Fira+Sans:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&amp;display=swap

4. Note:

- Use Redux or MobX. It is recommended to use Redux-sagas to handle asynchronous APIs.
- You are provided a mock backend.
- To run the backend server, please follow the following steps:
    - At the directory containing the package.json file, run the command: “npm install” to download the necessary packages.
    - After the installing process is complete, run the command: “npm run dev” to run the server.
    - When the terminal log shows the following, the server is running successfully:



```
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [InstanceLoader] ConfigHostModule dependencies initialized +0
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [InstanceLoader] ProductsModule dependencies initialized +1ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [InstanceLoader] CheckoutModule dependencies initialized +0ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [InstanceLoader] AppModule dependencies initialized +0ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [InstanceLoader] ConfigModule dependencies initialized +1ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [RoutesResolver] AppController {/}: +164ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [RoutesResolver] ProductsController {/api/products}: +0ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [RouterExplorer] Mapped {/api/products, GET} route +2ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [RoutesResolver] CheckoutController {/api/checkout}: +1ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [RouterExplorer] Mapped {/api/checkout, POST} route +0ms
[Nest] 39268  - 10/17/2021, 2:52:50 PM     LOG [NestApplication] Nest application successfully started +2ms
Server is running on PORT: 4000
```

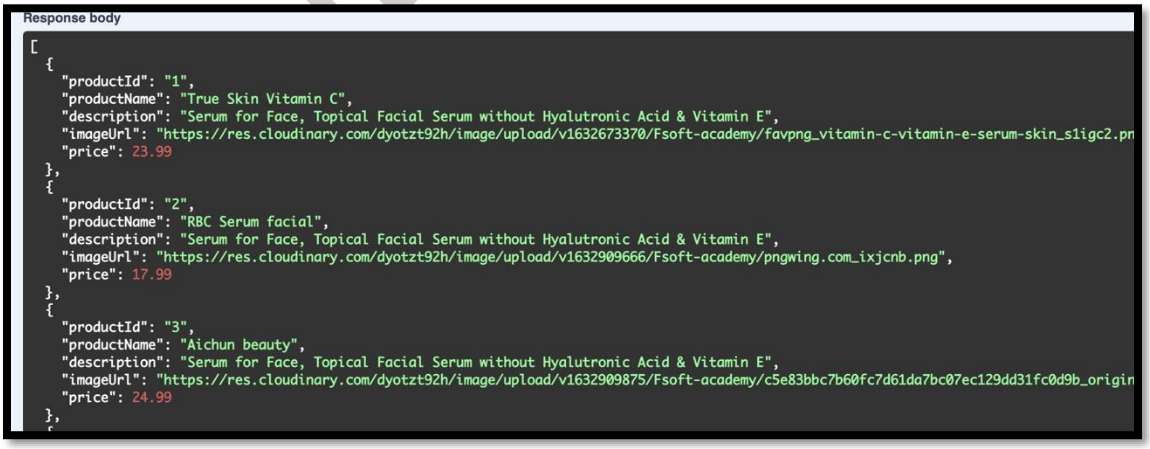
- The server url: http://localhost:400

GET /api/products - Get the entire product

Response (success):

Status: 200

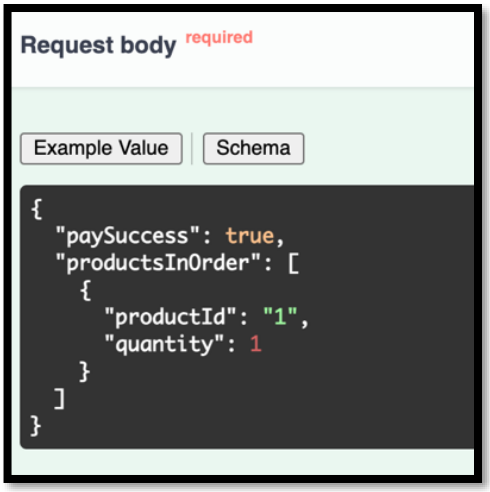
Data:



Response body

```
[
  {
    "productId": "1",
    "productName": "True Skin Vitamin C",
    "description": "Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E",
    "imageUrl": "https://res.cloudinary.com/dyotzt92h/image/upload/v1632673370/Fsoft-academy/favpng_vitamin-c-vitamin-e-serum-skin_s1igc2.pn
    "price": 23.99
  },
  {
    "productId": "2",
    "productName": "RBC Serum facial",
    "description": "Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E",
    "imageUrl": "https://res.cloudinary.com/dyotzt92h/image/upload/v1632909666/Fsoft-academy/pngwing.com_ixjcnb.png",
    "price": 17.99
  },
  {
    "productId": "3",
    "productName": "Aichun beauty",
    "description": "Serum for Face, Topical Facial Serum without Hyalutronic Acid & Vitamin E",
    "imageUrl": "https://res.cloudinary.com/dyotzt92h/image/upload/v1632909875/Fsoft-academy/c5e83bbc7b60fc7d61da7bc07ec129dd31fc0d9b_origin
    "price": 24.99
  },
```

POST /api/products - Payment



```
{
  "paySuccess": true,
  "productsInOrder": [
    {
      "productId": "1",
      "quantity": 1
    }
  ]
}
```

Request body - required.

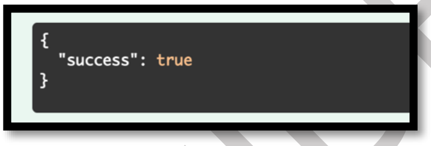
Example:

- paySuccess: Confirm successful payment.
- productsInOrder:
  - List of paid products.
  - Each item includes productId and quantity.

Response (success):

Status: 201

data:



```
{
  "success": true
}
```

- For more details of APIs, access the swagger at http://localhost:4000/api/document after running the server.

- You can use any UI library.
- You can use any toast library.

---(END && goodluck)--