Backend Documentation

1.User Account Creation:

Method: post
API : http://localhost:3000/api/users/register
Request: {
 "userId": "user123",
 "name": "John Doe",
 "email": "john@example.com",
 "password": "password123",
 "mobileNo": "1234567890",
 "address": "123 Main St"
}
Response: {"message":"User registered"}

2.User Login:

Method: post
API: http://localhost:3000/api/users/login
Request:
{
 "userId": "user123",
 "password": "password123"
}

Response:
{
   "token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOiJ1c2VyMTIzIiwiaWF0IjoxNzQ
3Nzk5MjUyLCJleHAiOjE3NDc4MDI4NTJ9.y8entncjqEBUeBB2N9tWxpBUP1iW8kSxSwORdl3Gnu8
",
   "user": {
      "userId": "user123",
      "name": "John Doe",
      "email": "john@example.com"
   }
}

3.List all Products(with pagination)

Method: get

API: http://localhost:3000/api/products?page=1&limit=1

Response:

```
{
    "products": [
        {
            "id": "p01",
            "name": "iPhone 15",
            "description": "Latest Apple smartphone with A16 Bionic chip",
            "price": 1200,
            "stock": 10,
            "imageUrl": "https://example.com/iphone15.jpg"
        }
    ],
    "total": 2,
    "page": 1,
    "limit": 1
}
```

4.View Product Details

Method: get
API: http://localhost:3000/api/products/p01
Response:

```
{
    "id": "p01",
    "name": "iPhone 15",
    "description": "Latest Apple smartphone with A16 Bionic chip",
    "price": 1200,
    "stock": 10,
    "imageUrl": "https://example.com/iphone15.jpg"
}
```

Managing Cart

5.Adding Product:
Method: post
API: http://localhost:3000/api/cart
Request

```
{
 "userId": "u1",
 "productId": "p01"
}
```

Response::
```
{
    "message": "Product added to cart"
}
```

6.View Products in user cart:
Method: get
API: http://localhost:3000/api/cart?userId=u1
Response:
```
[
    {
        "productId": "p01",
        "quantity": 2,
        "id": "p01",
        "name": "iPhone 15",
        "description": "Latest Apple smartphone with A16 Bionic chip",
        "price": 1200,
        "stock": 10,
        "imageUrl": "https://example.com/iphone15.jpg"
    }
]
```

7.Delete from cart
Method: delete
API: http://localhost:3000/api/cart
Request:
```
{
 "userId": "u1",
 "productId": "p01"
}
```
Response:
```
{
    "message": "Product removed from cart"
}
```

Managing Orders

8.Order Product
Method: post
API: http://localhost:3000/api/orders
Request:
```
{
 "userId": "u1"
}
```
Response:
```
{
```

```
    "message": "Order placed",
    "order": {
        "id": "order-1747805022903",
        "userId": "u1",
        "items": [
            {
                "productId": "p01",
                "quantity": 1
            }
        ],
        "status": "Success",
        "timestamp": "2025-05-21T05:23:42.903Z"
    }
}
```

9.User Orders:

Method: get

API: http://localhost:3000/api/orders?userId=u1&page=1&limit=5

Params:

Key : value

userId:1

page:1

limit:5

Response::

```
{
    "orders": [
        {
            "id": "order-1747844065620",
            "userId": "u1",
            "items": [
                {
                    "productId": "p01",
                    "quantity": 1
                },
                {
                    "productId": "p02",
                    "quantity": 2
                }
            ],
            "status": "Success",
            "timestamp": "2025-05-21T16:14:25.620Z"
        }
    ]
}
```