TA3A-B: Vinyl Store Application (MERN)

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Overview

Technologies Used

Frontend: React, Tailwind CSS

Backend: Node.js, Express, MongoDB

Authentication: JSON Web Tokens (JWT)

Deployment: Vercel

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R14 Key Code Explanation

Key Code 1: Handling Orders

Step 1: Receives order data from the frontend (userId, cartItems, etc.).

```
13    const placeOrder = async (req, res) => {
14      try {
15        const { userId, items, amount, address } = req.body;
16
17        const orderData = {
18          userId,
19          items,
20          address,
21          amount,
22          paymentMethod: "COD",
23          payment: false,
24          date: Date.now(),
25        };
```

Key Code 1: Handling Orders

Step 2: Creates a new order and saves it to MongoDB using new orderModel().

```
const newOrder = new orderModel(orderData);
await newOrder.save();

await userModel.findByIdAndUpdate(userId, { cartData: {} });
```
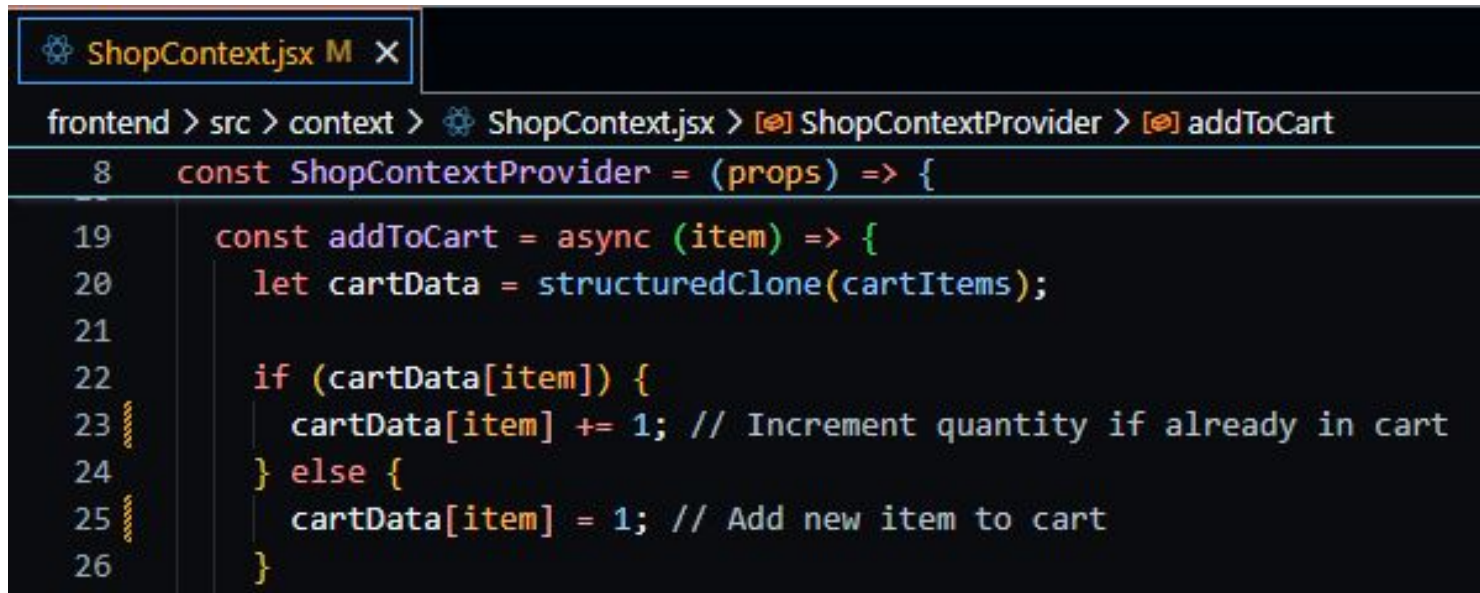
Key Code 1: Handling Orders

Step 3: Sends a response back to the frontend confirming the order.

```
    res.json({ success: true, message: "Order Placed" });
} catch (error) {
    console.log(error);
    res.json({ success: false, message: error.message });
}
```

Key Code 2: Cart Functionality

```jsx
ShopContext.jsx M ✕

frontend > src > context > ⚛ ShopContext.jsx > [ø] ShopContextProvider > [ø] addToCart
  8       const ShopContextProvider = (props) => {
 19         const addToCart = async (item) => {
 20           let cartData = structuredClone(cartItems);
 21
 22           if (cartData[item]) {
 23             cartData[item] += 1; // Increment quantity if already in cart
 24           } else {
 25             cartData[item] = 1; // Add new item to cart
 26           }
```

ShopContext.jsx

R15 Challenges

Challenge 1: bcrypt deployment
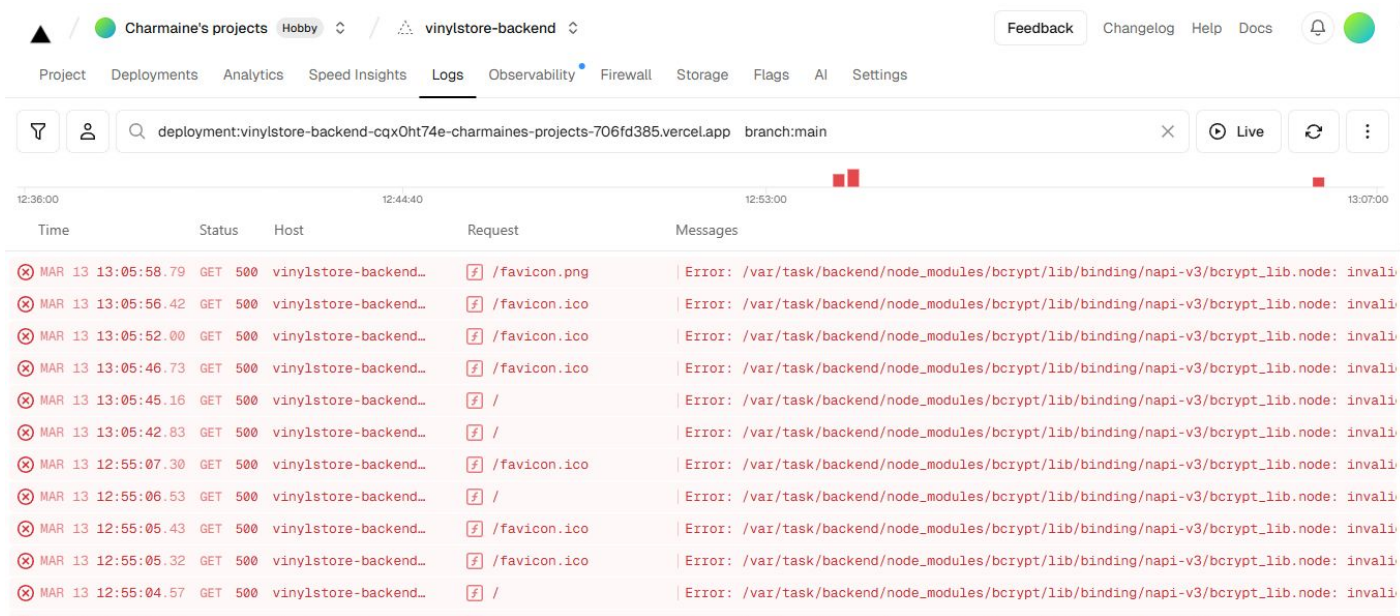
Deployed API

Challenge 1: bcrypt deployment

Vercel

Challenge 1: bcrypt deployment


```
TERMINAL
Error [ERR_MODULE_NOT_FOUND]: Cannot find package 'bcrypt.js' imported from C:\Users\Charmaine\Documents\CODING ACADEMY\vinylecommerceap
p\vinyl-frontend\backend\controllers\userController.js
    at packageResolve (node:internal/modules/esm/resolve:857:9)
    at moduleResolve (node:internal/modules/esm/resolve:926:18)
    at defaultResolve (node:internal/modules/esm/resolve:1056:11)
    at ModuleLoader.defaultResolve (node:internal/modules/esm/loader:654:12)
    at #cachedDefaultResolve (node:internal/modules/esm/loader:603:25)
    at ModuleLoader.resolve (node:internal/modules/esm/loader:586:38)
    at ModuleLoader.getModuleJobForImport (node:internal/modules/esm/loader:242:38)
    at ModuleJob._link (node:internal/modules/esm/module_job:135:49) {
ACADEMY\vinylecommerceapp\vinyl-frontend\backend>
```

Terminal

Challenge 1: bcrypt deployment

before

after

userController.js

Challenge 2: Cart Not Updating Properly

```js
4    const addToCart = async (req, res) => {

11       const userData = await userModel.findById(userId);
12       let cartData = userData.cartData || {};
13
14
15       cartData[itemId] = (cartData[itemId] || 0) + 1;
16
17       await userModel.findByIdAndUpdate(userId, { cartData });
18
19       res.json({ success: true, message: "Added To Cart", cartData });
20    } catch (error) {
21       console.log(error);
22       res.json({ success: false, message: error.message });
```

cartController.js

DEMO

QUESTIONS