

Group Name: Group one hundred

Name:	ID:	Github:
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CSC317 Web Development

Group Project Final Website with JS and DB

Description:

We have created an intuitive online shopping platform designed to offer a seamless and enjoyable user experience. The website includes comprehensive product information, a powerful search bar, various categories showcasing diverse items, and a fully functional shopping cart.

To enhance the user experience, we have incorporated several interactive features using JavaScript. Users can click on a product to view detailed information, including images, descriptions, prices, and an option to add the product to their cart. Additionally, the search bar allows users to quickly find products by entering keywords, while the categorized sections help them discover new items effortlessly.

Approach / What We Did:

We created corresponding JavaScript files for each HTML file and utilized ChatGPT to generate several scripts, including `account.js`, `cart.js`, `search.js`, `settings.js`, `signup.js`, and `database.js`.

Following ChatGPT's suggestions, we organized our project structure by adding folders such as `route`, `database.js`, and `controllers`, in addition to the `public` folder.

We installed necessary packages like `Express`, `MySQL`, `bcryptjs`, `body-parser`, and `dotenv` using the command `npm install express mysql bcryptjs body-parser dotenv`.

After installing and configuring `MySQL`, we created a database named `registration_login` and designed a `users` table with columns for `username`, `password`, `email`, `address`, `city`, `state`, and `zip code`.

For the backend, we set up routes to handle user authentication and registration, and implemented controllers to manage the login and signup processes. We used `bcryptjs` for password hashing and verification to ensure security. Connections to the `MySQL` database were established using the `mysql` package, and we created SQL queries to interact with the database.

Our server is developed using `Node.js` and `Express` to handle HTTP requests and responses. We configured middleware like `body-parser` to parse incoming request bodies and set up static file serving to deliver `HTML`, `CSS`, and `JavaScript` files from the `public` directory.

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To manage sensitive information such as database credentials, we used a .env file to configure environment variables.

Issues and Resolutions:

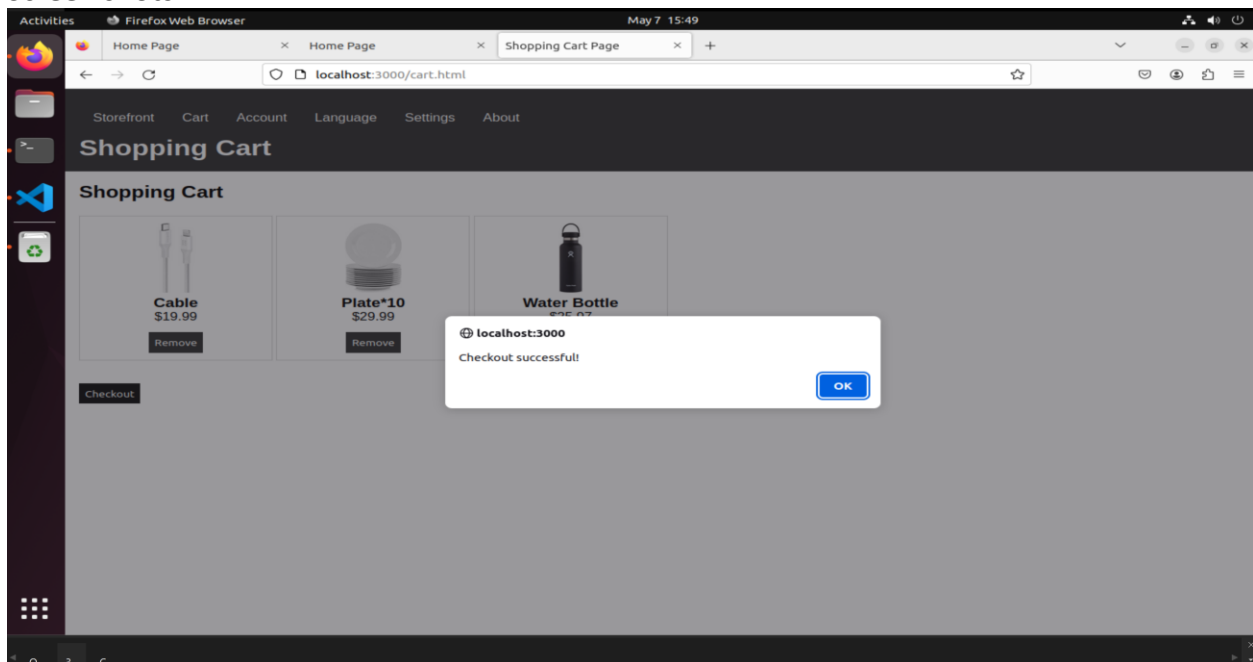
The issue was that we found MySQL Connection Error. Initially encountered errors connecting to the MySQL database, such as "Access denied" or "Authentication protocol" errors.

Then we asked ChatGPT to solve it, here is the solution it gave us. Created a MySQL user with appropriate privileges and granted access to the `registration_login` database. And ensured that the MySQL user credentials in the `.env` file were correct and matched the credentials used to create the user.

Analysis: (Reflect on what you have learned and how decisions made could impact users.)

Effective communication between the frontend and backend is essential for exchanging data and ensuring smooth application functionality. Seamless communication between these two components enables real-time updates, accurate data retrieval, and interactive features, enhancing the overall user experience and engagement.

Screen shots:



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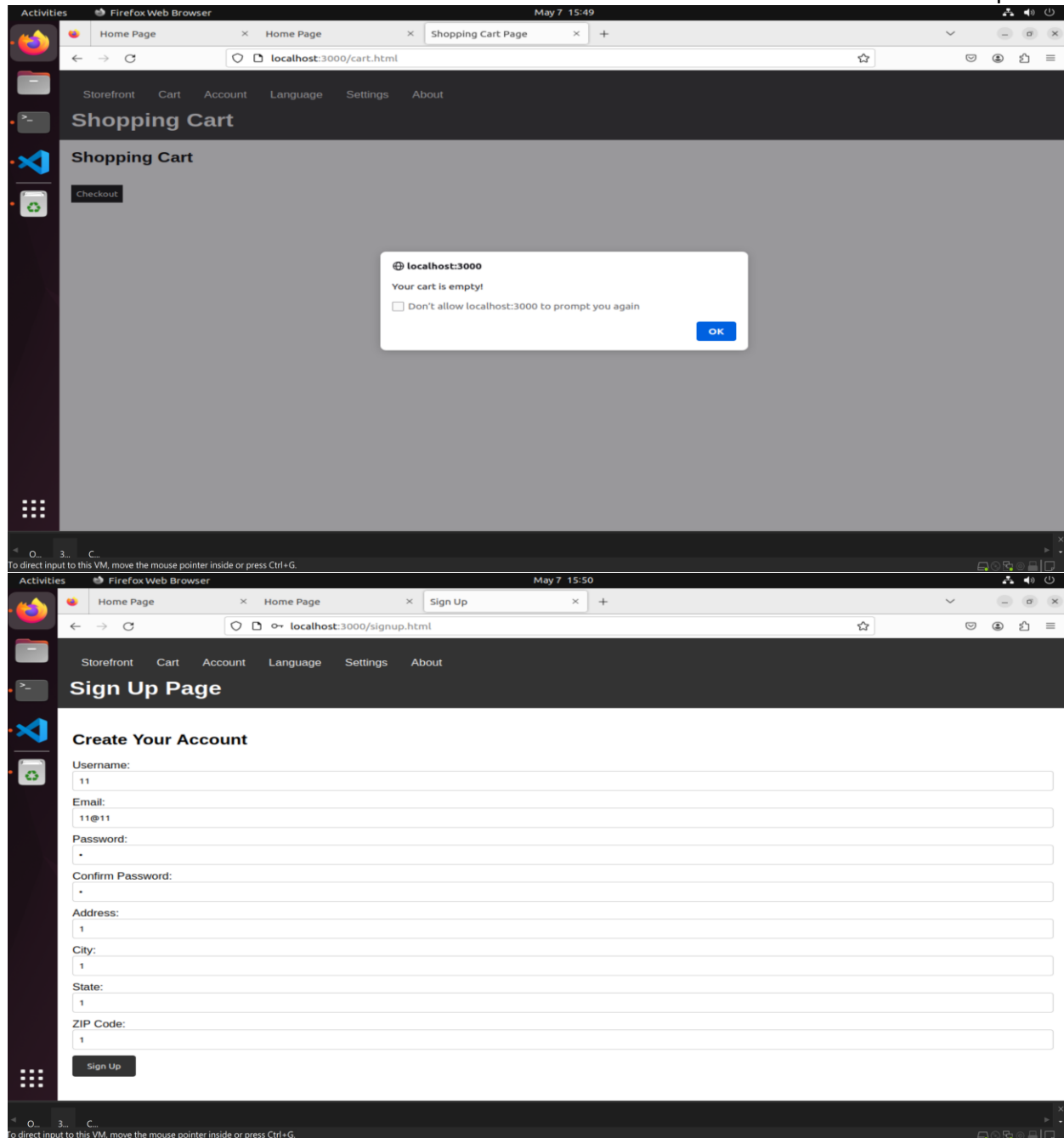
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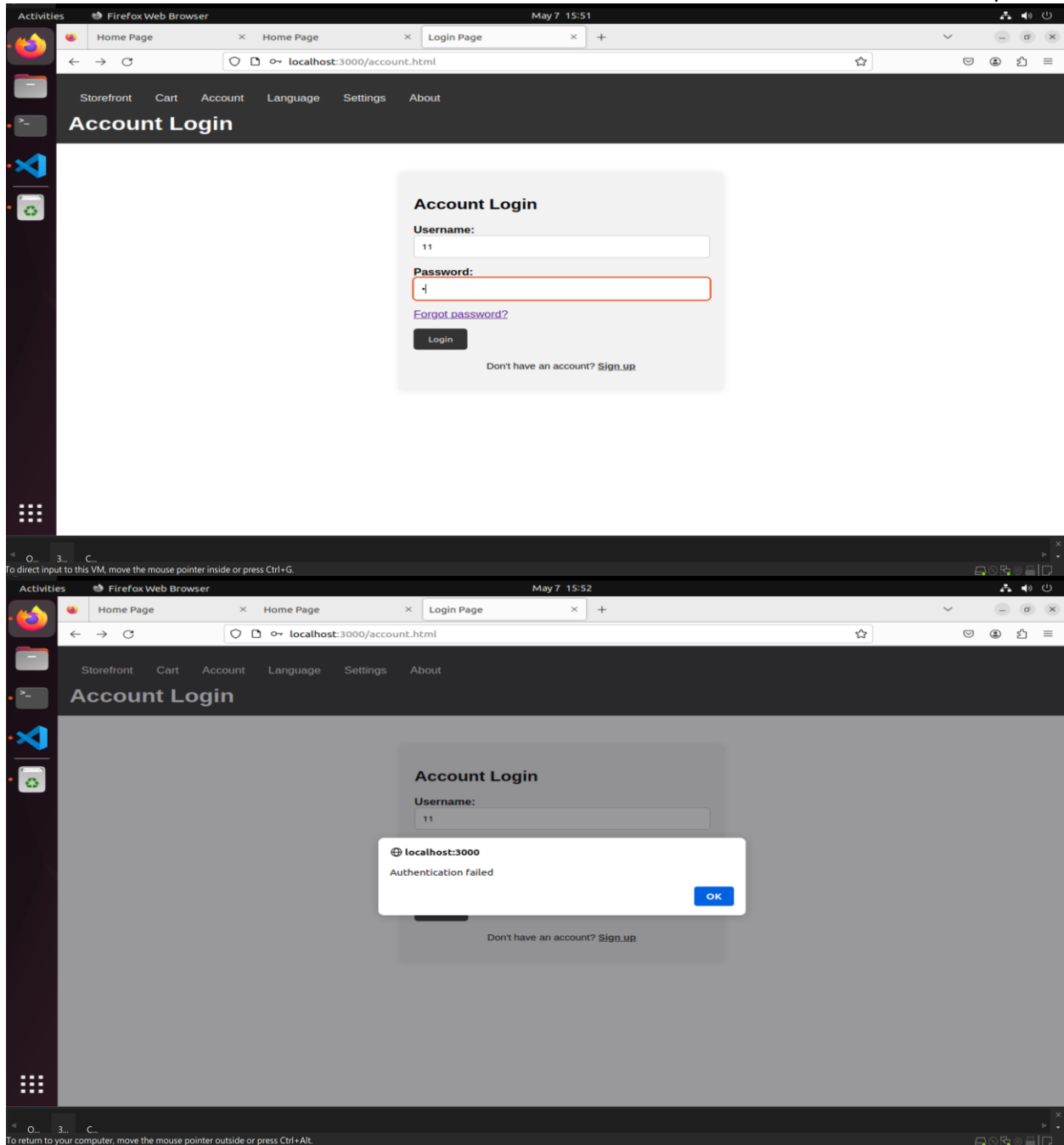
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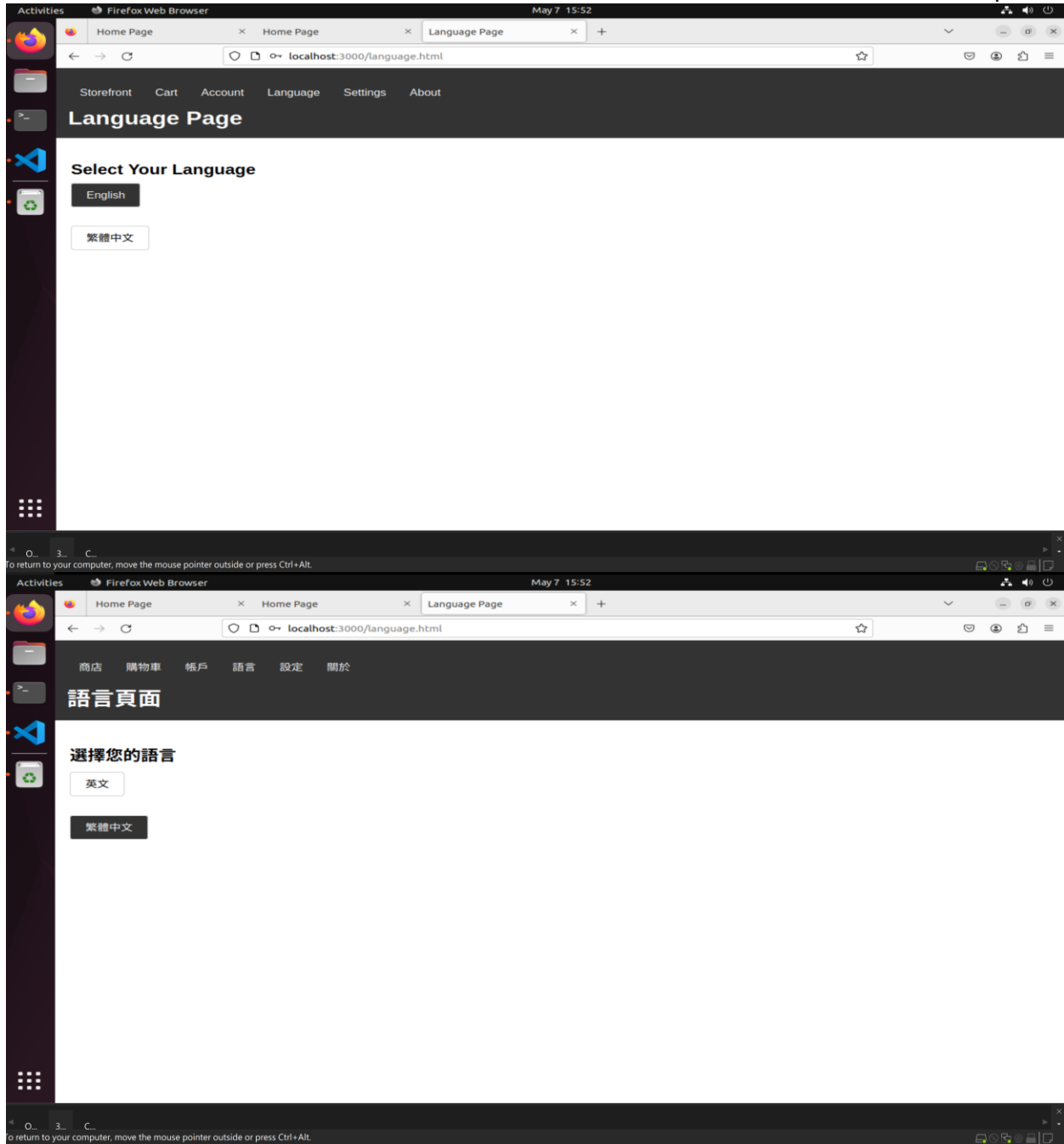
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The screenshot shows a Firefox Web Browser window with three tabs: 'Home Page', 'Home Page', and 'Setting Page'. The address bar shows 'localhost:3000/settings.html'. The main content area displays a 'Change Your Profile' form with fields for Username, Password, Confirm Password, Address, City, State, and ZIP Code. Below the form is a 'Notification' section with checkboxes for Email, SMS, and In-App notifications, and a 'Save' button. The browser's status bar at the bottom shows the URL 'O... 3... C...' and a message: 'to direct input to this VM, move the mouse pointer inside or press Ctrl+G.'

Storefront Cart Account Language Settings About

About Us

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- Name:Po-Han Chen ID:923446482 Github Name:eric915c
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- Name:Chia-Tung Liu ID:923408847 Github Name:Mob1001
- Name:Nathan Lee ID:923407911 Github Name:nlty0122

Our Mission

Our mission is to provide high-quality products and excellent customer service to our users.

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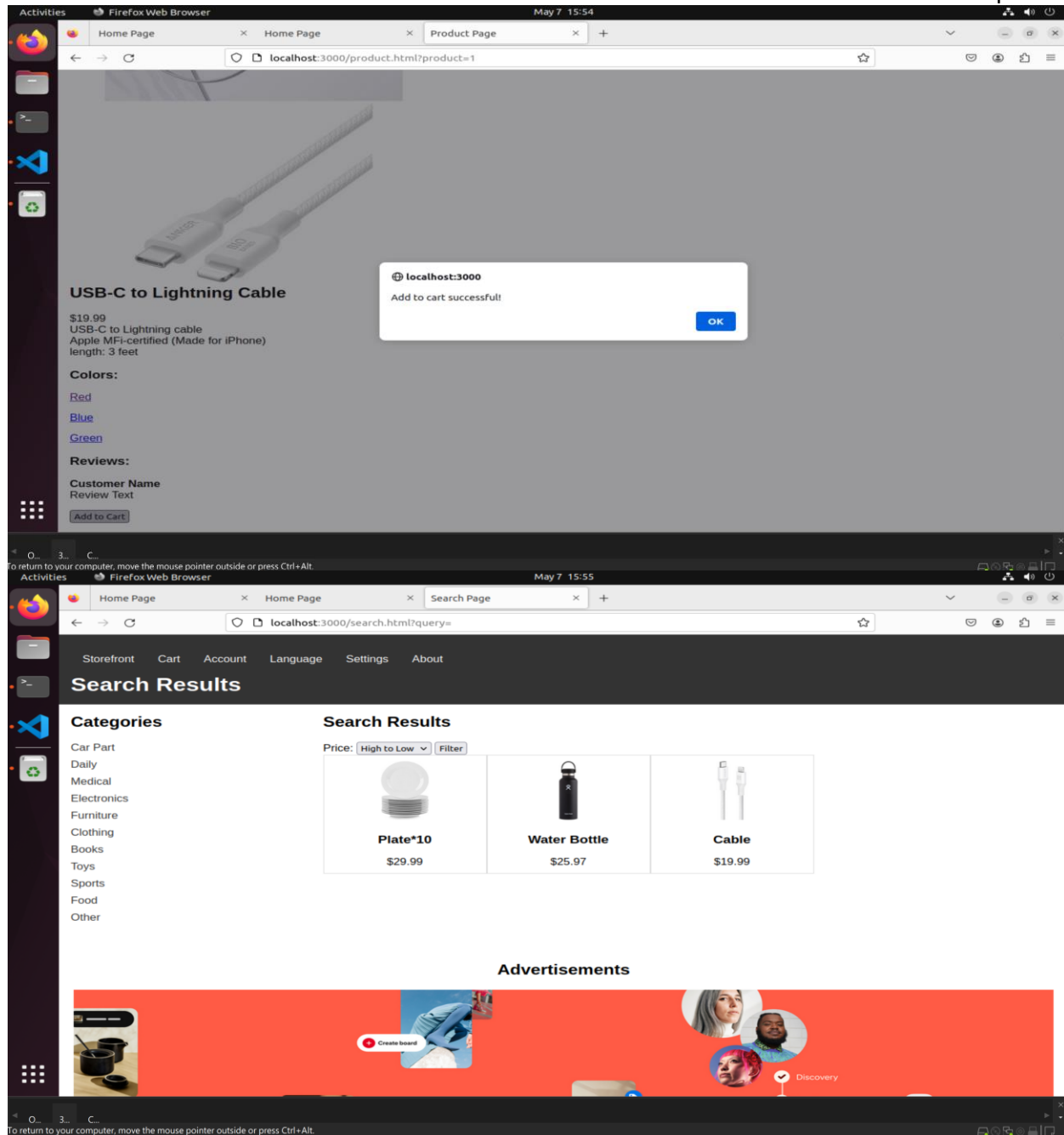
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