

Online Grocery Store

The goal of the Online Store is to give your users the capability of selecting a product to purchase, viewing purchase information, adding it to an online shopping cart, and finally, actually purchasing the products in the shopping cart.

Constraints

- Develop REST api using JAVA to implement complete solution.
(If you opted for frontend only skill-up, use in-memory solution instead of developing Nodejs API)
- Deploy FE application using NodeJs.
- UI should build with mobile first approach in mind.
(Consider you will have high traffic from mobile devices)
- Write unit tests with 80% code coverage.
(For REST api preferably use sonar to demonstrate code quality and test coverage)
- README file should have clear instructions on how to use your application.
- Deploy application in any cloud platform (Heroku, Azure)
- Create github repository to keep both FE and BE code

User Stories

- User can click on a 'View Products' button on the Landing Page to display the Products Page.
- User can see a card on the Products Page for each Product showing the product thumbnail, name, price, a short description, and a 'Select' button.
- User can see a Product Details page displayed when the 'Select' button is clicked showing the same information from the product card, but also a unique product id, a long description, 'Add to Cart' button, and a 'See More Products' button.
- User can see a confirmation message when the product is added to the shopping cart.
- User can click on the 'See More Products' page to return to the Products Page.
- User can see a 'Shopping Cart' button on both the Landing Page or the Products Page. Hint: a top bar might be a good common location for this button.
- User can click on the 'Shopping Cart' button to display the Shopping Cart page containing the product id, name, price, and quantity ordered input box for each product previously added to the Shopping Cart.
- User can see a total purchase amount on the Shopping Card that is calculated as the sum of the quantities multiplied by the unit price for each product ordered.

- User can adjust the quantity ordered for any product to adjust the total purchase amount.
- User can click a 'Place Order' button on the Shopping Cart Page to complete the order. User will see a confirmation number when the order has been placed.
- User can click a 'Cancel Order' button on the Shopping Cart Page to cancel the order. User will see the product quantities and the total purchase amount reset to zero.
- User can click a 'See More Products' button on the Shopping Cart Page to return to the Products Page. If the order hasn't been placed yet this will not clear the products that have already been added to the Products Page.

Bonus features

- User can see an error message if the quantity ordered exceeds the “on hand” quantity of the product.
- User can specify a bill to and ship to address when the order is placed from the Shopping Cart Page.
- Shipping charges added to the total purchase amount.
- User can see sales taxes added to the total purchase amount.
- Implement the product inventory in an external file or a database.
- Add service workers to inform customer about delivery status.