

# Front end developer coding evaluation

## Summary

An order portal application that allows customers to login and view a list products and add it to a shopping cart.

## Functionality:

- Create a login page with the option to enter user name and password. This login form should have basic validation check as all fields are mandatory.
- Unauthenticated customers are redirected to login page.
- On successful authentication, display a home page with the catalogue of products.
- Customers can add products to the cart
- Customers can view the cart at any point and remove items from the cart.
- The product list will have the following details: Name, Brand, Price, Stock Availability, Image
- The cart will have the following details: List of products (Name, Price, Image), Total Cart Price

## Requirements

1. Setup a mock server and create a REST API to traverse the data between client and server.
2. Use auth guard to check the authentication and redirect the unauthenticated user to 'page not found' page (A page with just a title is enough)
3. The product catalogue should display in a grid for desktop and stack vertically per product in mobile
4. The products should use a re-usable component
5. Out of stock products should be greyed out and cannot be added to the cart.
6. The cart should be part of the header and display the summary when clicked.
7. Use a state management tool or React Context to manage the cart state.
8. The customer login credential is a hard-coded value in the mock server.
9. All the pages should be responsive. Feel free to use bootstrap library to achieve this.
10. Apply UI design and styles of your choice. The application should be visually pleasing. Feel free to add any designs that you feel will enhance the look and feel. i.e. Out of stock label across product image etc.
11. Add basic unit tests
12. Provide instructions to build and run the application (including the hardcode credentials) and comment on any libraries, tools or interesting features used.

## Technology

1. React
2. Bootstrap 4
3. SCSS
4. HTML5
5. ES6 or above

In addition to the above, if you would like to add any other latest front end techniques, please feel free to add.