

React Front End Developer – Technical Test

Introduction

The purpose of this test is to assess your knowledge and approach to software development. The most important thing is the quality, efficiency and maintainability of the solution.

Scenario

You are required to write a react based web application that displays a list of products grouped by category. You should create a solution that fulfils all the criteria laid out below:

- Shows a good understanding of modern development techniques.
- Is structured in a way that a production system would be.
- Is stored in a git repository that we could be given access to. GitHub, Azure DevOps, Bit Bucket etc.

Criteria

The application should have the following minimum functionalities:

- App should use redux, reducers and axios / fetch API
- Sends a get request towards <https://developertests.z33.web.core.windows.net/ReactTestData.json>
- Parses received JSON and adds the products to the app state
- Displays the list of categories in a menu like fashion, with the user's ability to select or unselect a category
- Displays products based on selected categories or a "Please select at least a category message"
- Products should be displayed in a grid, with a thumbnail and text information beneath it (Similar to <https://themodernmilkman.co.uk/Categories>) **
- The application should be responsive and look nicely on mobile, tablet and desktop screens



Nice to have

- Application works offline (once the initial data is received, the app works offline and only updates state information on refresh)
- "Clear selection" button (clearing all selected categories)
- "Select all" categories button
- Shows "In stock" for products that have more than 10 stock items, "Few left" for less than or equal to 10 products and "Out of stock" when no products available

Data Entities

```
[
  {
    "title": "Category Title String",
    "data": [
      {
        "amount": "Product Amount String",
        "key": 2,
        "stock": 129,
        "title": "Product Title String",
        "price": 12
      },
      [...]
    ]
  },
  [...]
]
```

Notes

** As we don't have an end point for thumbnails, please add appropriate ones of your choice.