Front-end Framework

Practice Exam

Document Code	
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Hanoi

RECORD OF CHANGES

No	Effective Date	Change Description	Creater	Reviewer	Approver
1	01/2025	Create a new	MaiNT47	HaiHT	DieuNT1

Contents

CODE:	**FEFW.Practice.T03**
TYPE:	**Exam 01**
LOC:	**N/A**
DURATION:	**180 minutes**

E-Commerce

Project Overview:

You have to implement an E-Commerce web app using React.

General functionalities:

- Display a list of products (Card View or List View)
- Display the details of a single product.
- Search for products.
- **Optional / Nice to have**: Filter, Sort

Frontend Specs:

Routing Guidelines

- URL: "/" => Redirect to "/products"
- URL: "/products" => Products page (Display a list of Products)
- URL: "/products/:id" => Display Product in detail

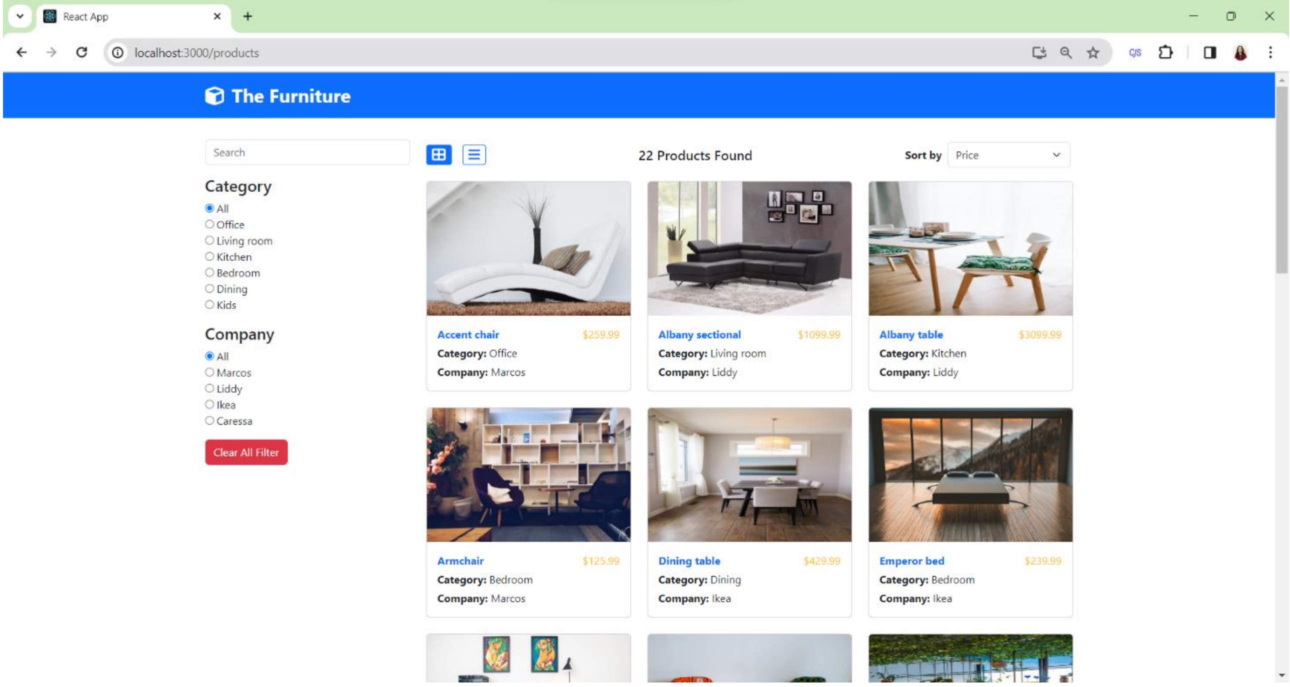
Styles

- Use Bootstrap or any CSS Library/Framework for styling.
- Layout must match UI design.
- Color, icons, fonts,… doesn't need to match but make sure your app is clean and easy to follow.
- Responsive is Optional/Bonus

Screen Design:

Products page (Card View):

User should be able to click on the Card View(⊞) or List View(☰) icon to change view mode. The selected view mode icon should be highlighted to indicate the current mode.



22 Products Found

Category
● All
○ Office
○ Living room
○ Kitchen
○ Bedroom
○ Dining
○ Kids

Company
● All
○ Marcos
○ Liddy
○ Ikea
○ Caressa

Accent chair $259.99
Category: Office
Company: Marcos

Albany sectional $1099.99
Category: Living room
Company: Liddy

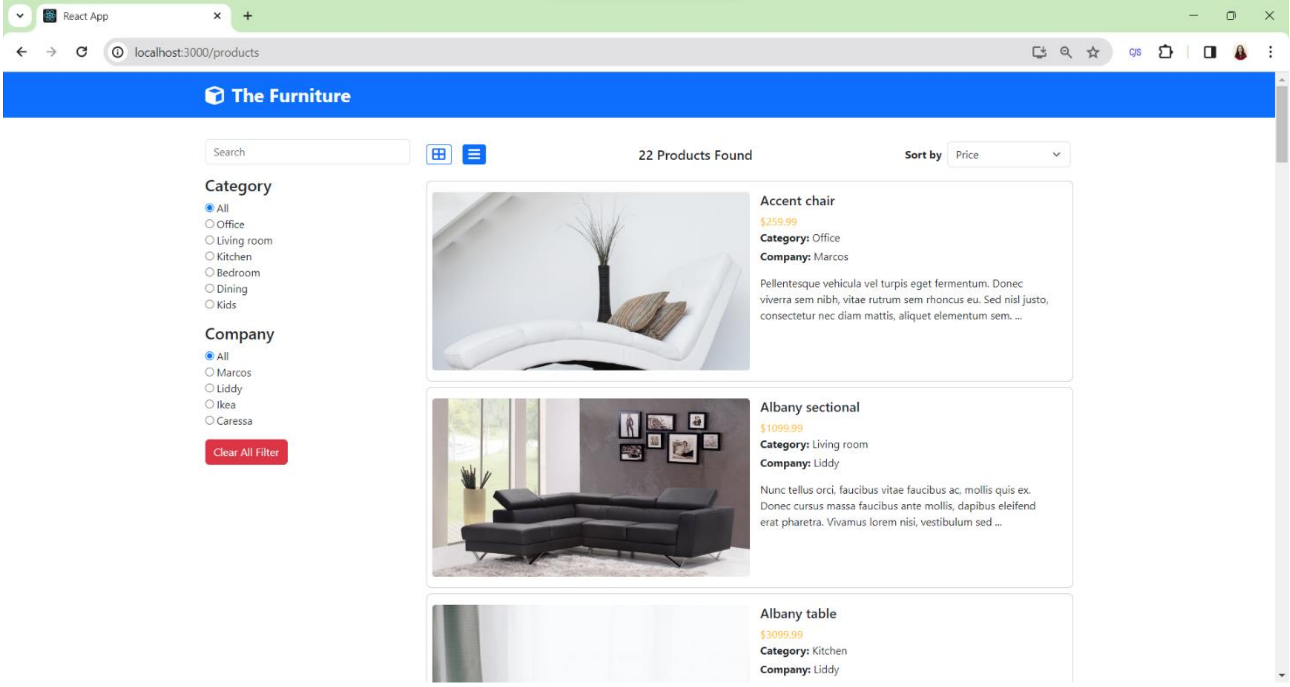
Albany table $3099.99
Category: Kitchen
Company: Liddy

Armchair $125.99
Category: Bedroom
Company: Marcos

Dining table $429.99
Category: Dining
Company: Ikea

Emperor bed $239.99
Category: Bedroom
Company: Ikea

Products page(List View):



22 Products Found

Category
● All
○ Office
○ Living room
○ Kitchen
○ Bedroom
○ Dining
○ Kids

Company
● All
○ Marcos
○ Liddy
○ Ikea
○ Caressa

Accent chair
$259.99
Category: Office
Company: Marcos

Pellentesque vehicula vel turpis eget fermentum. Donec viverra sem nibh, vitae rutrum sem rhoncus eu. Sed nisl justo, consectetur nec diam mattis, aliquet elementum sem. ...

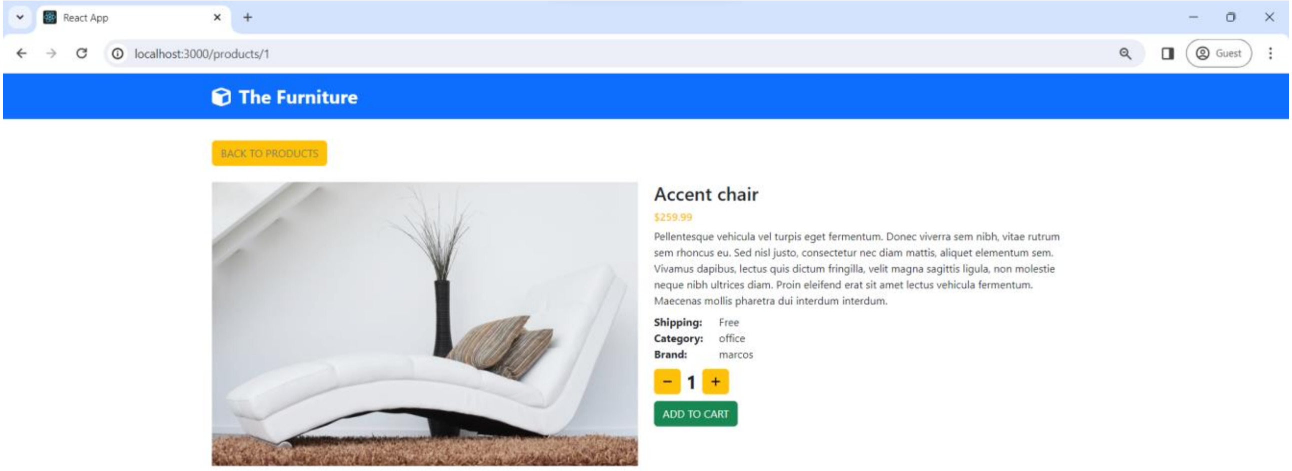
Albany sectional
$1099.99
Category: Living room
Company: Liddy

Nunc tellus orci, faucibus vitae faucibus ac, mollis quis ex. Donec cursus massa faucibus ante mollis, dapibus eleifend erat pharetra. Vivamus lorem nisi, vestibulum sed ...

Albany table
$3099.99
Category: Kitchen
Company: Liddy

Product Detail:

User should be able to click on the product's image to navigate to the product detail page.



Accent chair

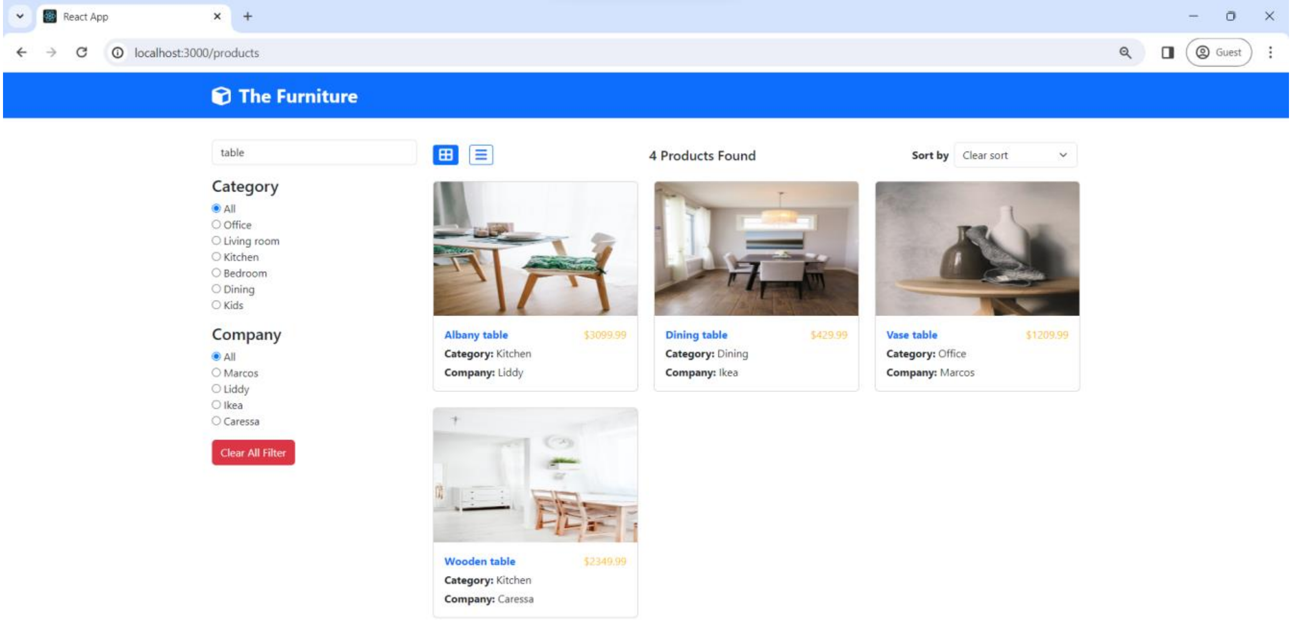
$259.99

Pellentesque vehicula vel turpis eget fermentum. Donec viverra sem nibh, vitae rutrum sem rhoncus eu. Sed nisl justo, consectetur nec diam mattis, aliquet elementum sem. Vivamus dapibus, lectus quis dictum fringilla, velit magna sagittis ligula, non molestie neque nibh ultrices diam. Proin eleifend erat sit amet lectus vehicula fermentum. Maecenas mollis pharetra dui interdum interdum.

Shipping: Free
Category: office
Brand: marcos

Search for products:

User should be able to search for products based on various criteria such as name, description, and other relevant attributes.



table

4 Products Found

Category
● All
○ Office
○ Living room
○ Kitchen
○ Bedroom
○ Dining
○ Kids

Company
● All
○ Marcos
○ Liddy
○ Ikea
○ Caressa

Albany table $3099.99
Category: Kitchen
Company: Liddy

Dining table $429.99
Category: Dining
Company: Ikea

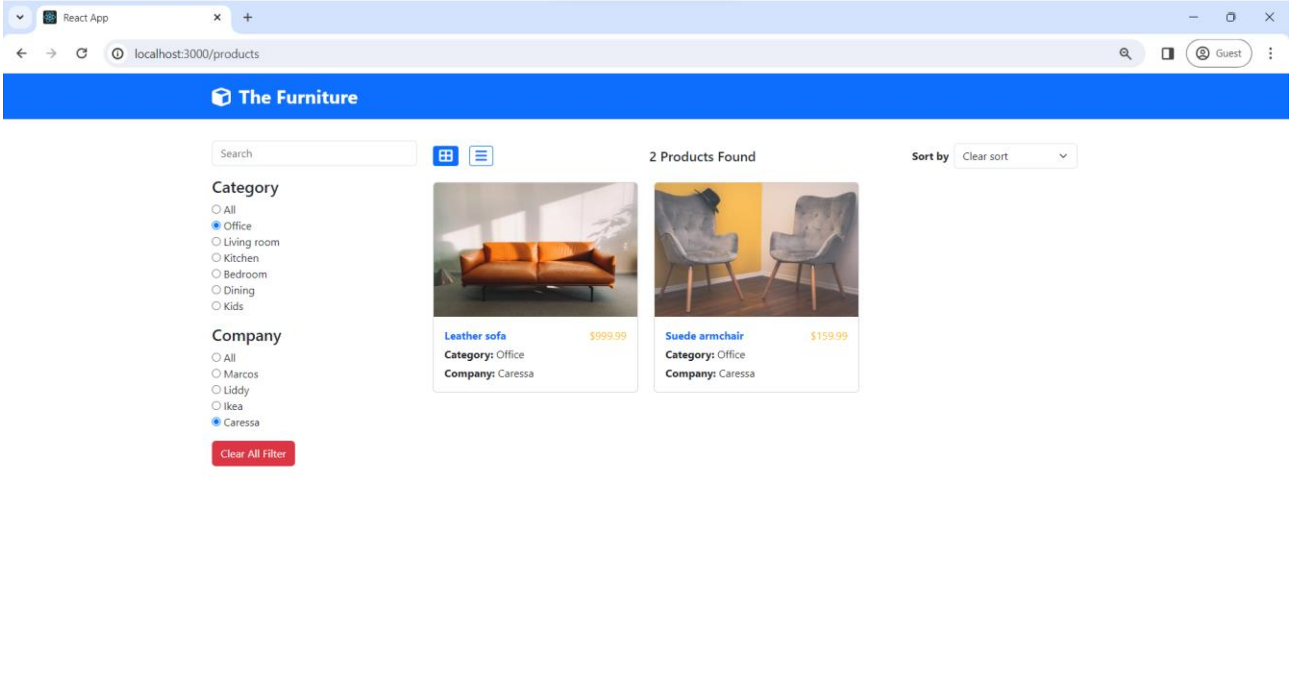
Vase table $1209.99
Category: Office
Company: Marcos

Wooden table $2349.99
Category: Kitchen
Company: Caressa

Optional / Nice to have:

Filter

User should be able to Filter products based on category or company. Additionally, there should be a "Clear All Filters" button that allows users to remove all applied filters with a single click.



The Furniture

Search

2 Products Found

Sort by Clear sort

Category
○ All
● Office
○ Living room
○ Kitchen
○ Bedroom
○ Dining
○ Kids

Company
○ All
○ Marcos
○ Liddy
○ Ikea
● Caressa

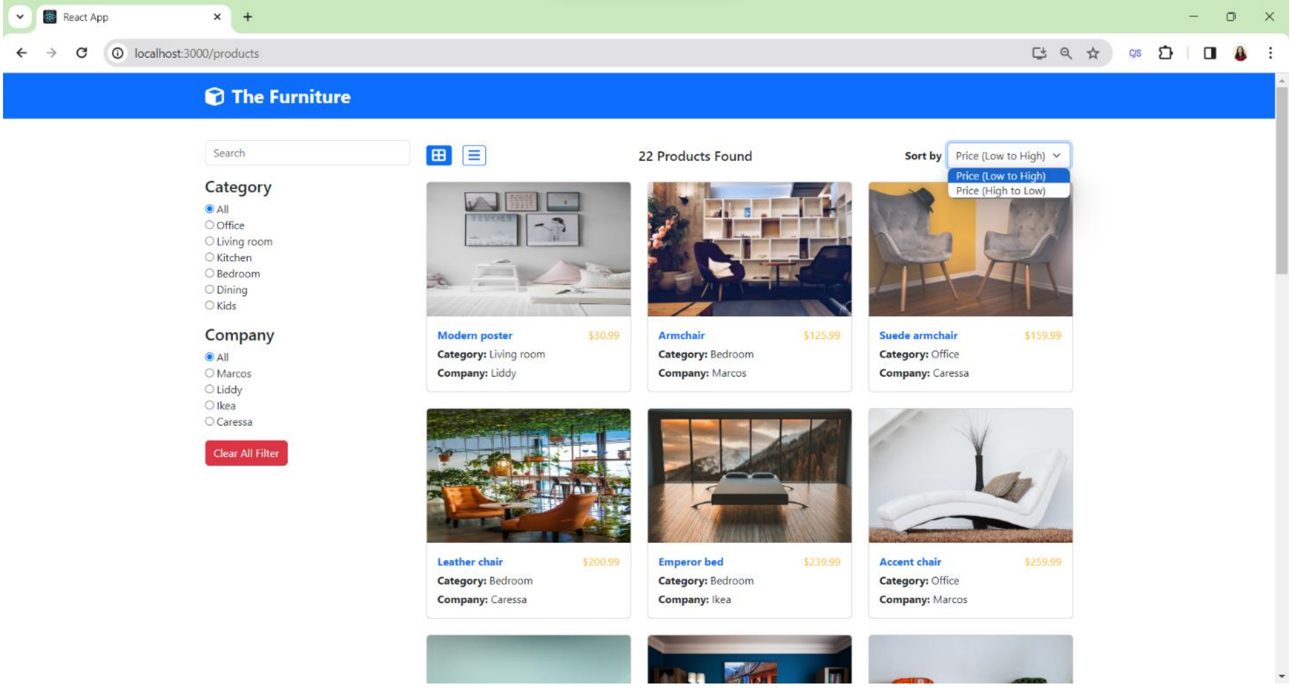
Clear All Filter

Leather sofa $999.99
Category: Office
Company: Caressa

Suede armchair $159.99
Category: Office
Company: Caressa

Sort by Price

User should be able to sort by price in either ascending order (Low to High) or descending order (High to Low).



The Furniture

Search

22 Products Found

Sort by Price (Low to High)
- Price (Low to High)
- Price (High to Low)

Category
● All
○ Office
○ Living room
○ Kitchen
○ Bedroom
○ Dining
○ Kids

Company
● All
○ Marcos
○ Liddy
○ Ikea
○ Caressa

Clear All Filter

Modern poster $30.99
Category: Living room
Company: Liddy

Armchair $125.99
Category: Bedroom
Company: Marcos

Suede armchair $159.99
Category: Office
Company: Caressa

Leather chair $200.99
Category: Bedroom
Company: Caressa

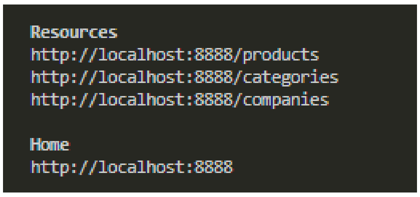
Emperor bed $239.99
Category: Bedroom
Company: Ikea

Accent chair $259.99
Category: Office
Company: Marcos

Backend Specs:

Backend Server are provided in a zip file named "mock-data.zip"

Unzip, then start the Server by run `npm start` on cmd. You should see the output:



```
Resources
http://localhost:8888/products
http://localhost:8888/categories
http://localhost:8888/companies

Home
http://localhost:8888
```

BASE URL: http://localhost:8888

Endpoints:

Get All Products

```
GET /products
```

Get All Categories

```
GET /categories
```

Get All Companies

```
GET /companies
```

Get a single product by its ID

```
GET /products/:id
```

Search

Use q={searchValue} to search for products

For example:

```
GET /products?q=table
```

Filter

Use properties of the product object to filter: category, company...

For example:

```
GET /products?category=office
GET /products?category=office&company=marcos
```

Sort

Use _sort={property name} and _order={asc or desc}

For example:

```
GET /products?_sort=price&_order=asc
```