React Test (Inventory Management System)

Your task is to create the frontend for a client site using React.

You need to create the following UI components:

- Login
- Side Menu Bar
- Home
- Category
- Add New Product
- Edit an Existing Product
- Search Product
- Get all products in a category

Note

1. Use React with Type script
2. Use Proper coding conventions
3. The components should be small, easy to understand and reusable
4. The routes should be secured i.e If user is not authenticated, he should be redirected to login page
5. Create separate services for api calls
6. Use Fluent UI/Material UI, to create the UI
7. Use proper optimization techniques to reduce the re-renders in react app
8. Use Axios to call the api's
9. You are not allowed to use Chat GPT or any other AI tool, or discuss it one another during the test
10. Use Formik for inputs and there should be proper validation
11. Each Input should be required

Login

You need to create a Login component.

The user should only be allowed to view other pages, if he is logged in else he would be redirected to login page.

Store the auth token in local storage.

```
curl --location 'https://dummyjson.com/auth/login' \
--header 'Content-Type: application/json' \
--data '{
    "username":"kminchelle",
    "password":"0lelplR"
}'
```

Side Menu Bar

Create a side menu bar on the left, with two options

- Home
- Categories

On Home, show all the products.

Under Categories, show all the categories.

When user clicks on a category. Show him the all the products, belonged to that category.

Home

On Home, show all the products in form of Cards.

The Card should contain Product thumbnail, Title, Price and some of it's description.

The product should be displayed in paginated form and only get 10 products at a time.

When user click on a card, redirect him to details page

Provide a Search bar. So can user can search a specific product.

```
curl --location 'https://dummyjson.com/products/search?q=phone&limit=1&skip=0'
```

Category

When user clicks on a category, show him all the products belonged to that category. Similar to Home.

```
curl --location 'https://dummyjson.com/products/categories'
```

```
curl --location 'https://dummyjson.com/products/category/smartphones?limit=10&skip=0'
```

Add Product

On Home page, add a button to allow user to create new product.

The new product modal should contain following fields:

- Title
- Price
- Category (Multi Select)
- Description

```
curl --location 'https://dummyjson.com/products/add' \
--header 'Content-Type: application/json' \
--data '{
    "title": "iPhone 9",
    "description": "An apple mobile which is nothing like apple",
    "price": 549,
    "discountPercentage": 12.96,
    "rating": 4.69,
    "stock": 94,
    "brand": "Apple",
    "category": "smartphones"
}'
```

Edit Product

On Details page, provide a button for user to edit the product.

Display all the fields to user, but user can only update:

- Title
- Price
- Category (Multi Select)
- Description

```
curl --location --request PUT 'https://dummyjson.com/products/1' \
--header 'Content-Type: application/json' \
--data '{
    "title": "iPhone 9",
    "description": "An apple mobile which is nothing like apple",
    "price": 549,
    "discountPercentage": 12.96,
    "rating": 4.69,
    "stock": 94,
    "brand": "Apple",
    "category": "smartphones"
}'
```