

Mid Term Assessment

Create a Full-fledged Ecommerce Application using the provided backend. The backend is already installed and running. All server endpoints are mentioned at the end of the problem statement.

The application is divided into 2 parts.

Following are the features of part 1.

1. User Registration with displayName,email,username,password and role.
Users should be able to go to the register link present in the home page, do registration and get a registration success message.
2. User Login . Show a login box in the home page, on entering the correct username and password you have to login the user and take him to a members page. In members page show the username, email,display name and role of user.
3. use redux and redux thunk for async data fetch.

Note: you have to use material UI to get professional user interface

For login and registration, show a loader which will load when the login and registration happens.

Features for Part 2

Note:For Part 2, Redux is not required.You need to show loader wherever server request is sent.

For professional looking display you need to setup and configure react-data-tables.
<https://www.npmjs.com/package/react-data-table-component>.

For date operations use the library momentJs: <https://momentjs.com/>

For part 2 the features are:

- 1) create an admin area where you can go only if you are logged in. In the admin area, you have to show a form where you can add a category. The category form has name and description input fields as per API.
- 2) create a product form to add products. Product form has following fields: code,name,excerpt,description,category,price and stock .
- 3)Now you will show all products with all product fields that you added in admin in the home page area of the website along with a menu on top. The top menu will have links to the Home,Register, Login and Admin page.
- 4) Adding Search capabilities in the Front End.
You should be able to search products by name and description using react-data-table inbuilt features.

- 5) You should be able to add filtering capabilities and be able to filter products by status.
- 6) Implement sorting by product name and product price.
- 7) Show product createdAt using field for product using momentjs library.
- 8) For validations, use the formik library and add validation for all add and edit fields.

<https://formik.org/>

The validation has to be for product add fields for name(min 3 chars and max 30), for price(not negative and not above 100,000), description(min 30 chars and max 500 chars).

For category add the name must be min 3 chars and max 30.

For category description min 50 chars and max 500 characters.

Lazy Loading: As step to increase load time of home page, implement lazy loading for admin page. The admin route should be loaded using lazy loading.

Server endpoints:

'/api/v1/orders' –Orders End Point

'/api/v1/products', –Product End Point

'/api/v1/categories', –Categories End Point

'/api/v1/users', – Users End Point

'/api/v1/roles', – Roles End Point

'/api/v1/auth', – Auth End Point

UI of home page for product listing

