

Full Stack Development with MERN

Frontend Development Report

Date	14/7/2024
Team ID	SWTID1719933594
Project Name	ShopEZ: E-commerce Application
Maximum Marks	

Project Title: ShopEZ: E-commerce Application

Date: 14/7/2024

Prepared by: Harikrishnan V D

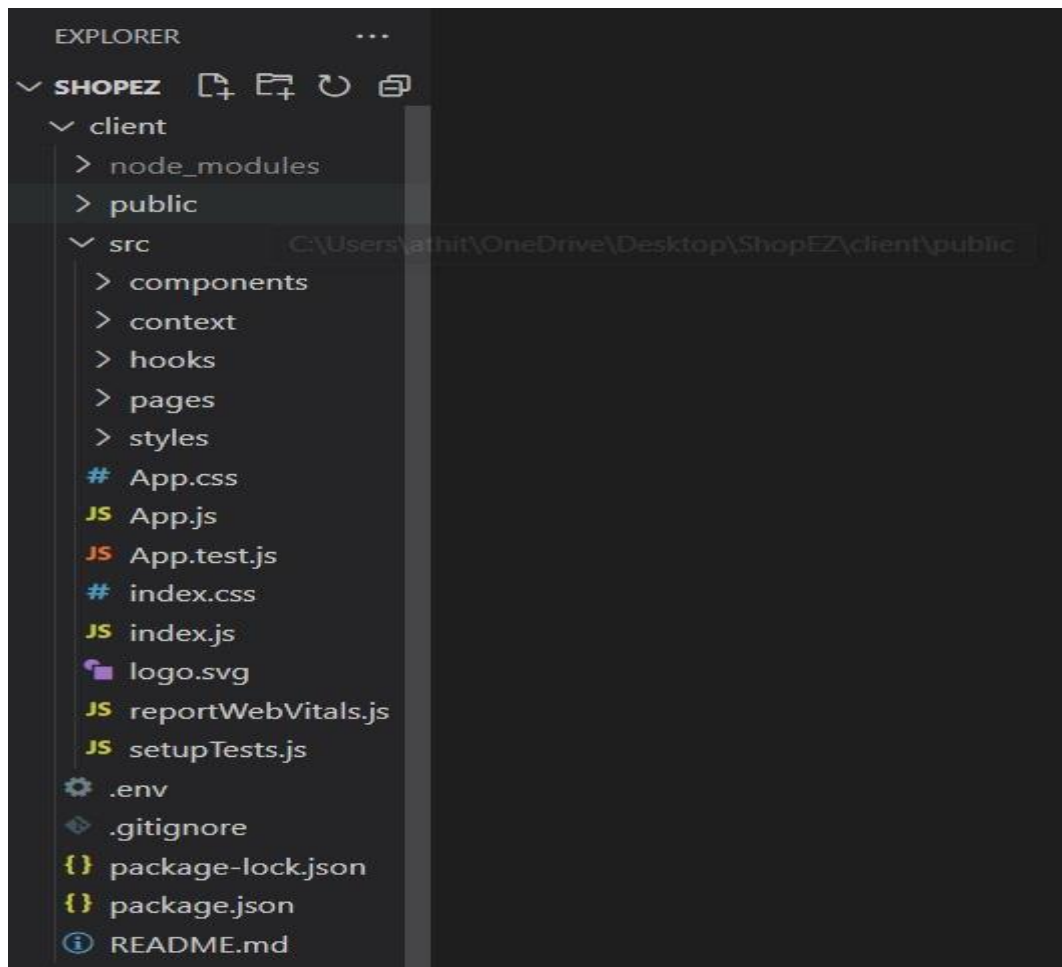
Objective

The objective of this report is to document the frontend development progress and key aspects of the user interface implementation for the ShopEZ: E-commerce Application project.

Technologies Used

- **Frontend Framework:** React.js
- **State Management:** Context API
- **UI Framework/Libraries:** Bootstrap
- **API Libraries:** Axios

Project Structure

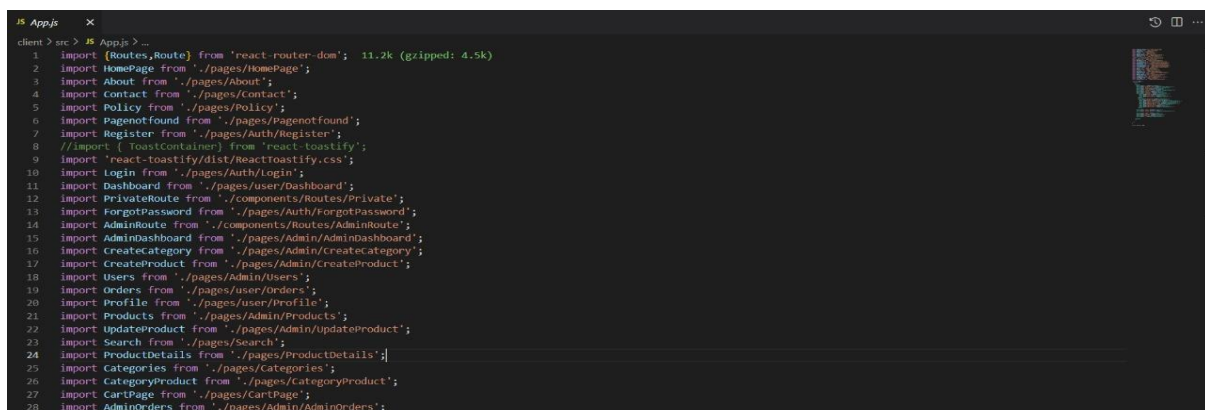


Frontend part of the app contains the above elements. The layout of the app is decided by Form, Layout, Routes which comes under components. Hooks are used for getting categories of product while searching and filtering process. Under the page section many landing pages for admin ,user, categories, cart, payment, etc.

Key Components

1. App.js

- Responsible for routing and main application layout.



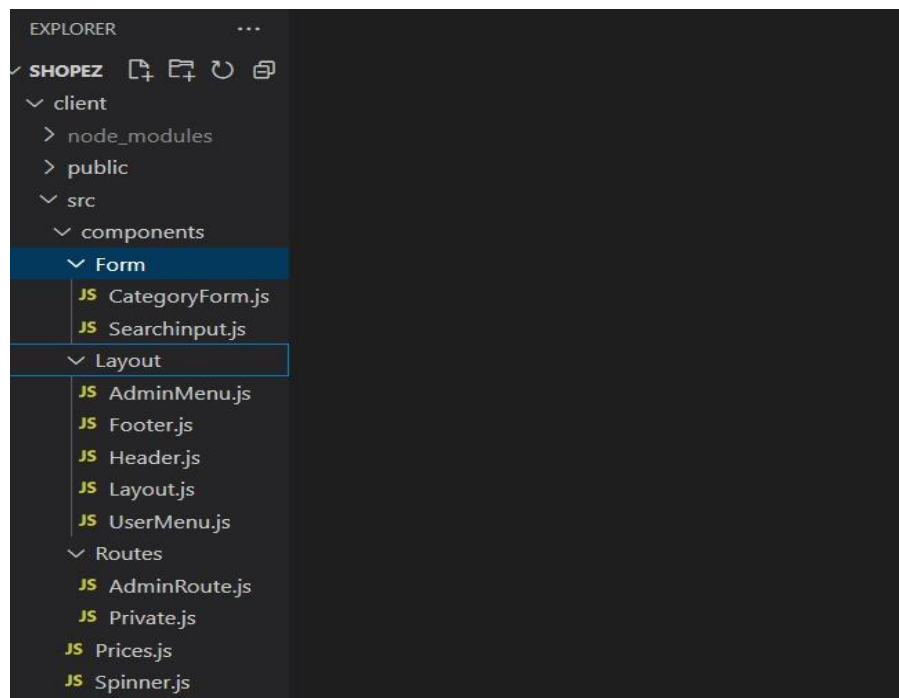
```

30 function App() {
31   return (
32     <>
33       <Routes>
34         <Route path="/" element={<HomePage/>} />
35         <Route path="/product/:slug" element={<ProductDetails/>} />
36         <Route path="/categories" element={<Categories/>} />
37         <Route path="/cart" element={<CartPage/>} />
38         <Route path="/category/:slug" element={<CategoryProduct/>} />
39         <Route path="/search" element={<Search/>} />
40         <Route path="/register" element={<Register/>} />
41         <Route path="/dashboard" element={<PrivateRoute />>
42           <Route path="user" element={<Dashboard />} />
43           <Route path="user/orders" element={<Orders/>} />
44           <Route path="user/profile" element={<Profile />} />
45         </Route>
46         <Route path="/dashboard" element={<AdminRoute/>>
47           <Route path="admin" element={<AdminDashboard/>} />
48           <Route path="admin/create-category" element={<CreateCategory/>} />
49           <Route path="admin/create-product" element={<CreateProduct/>} />
50           <Route path="admin/product/:slug" element={<UpdateProduct/>} />
51           <Route path="admin/products" element={<Products/>} />
52           <Route path="admin/users" element={<Users/>} />
53           <Route path="admin/orders" element={<AdminOrders/>} />
54         </Route>
55       </Routes>
56       <Route path="/login" element={<Login/>} />
57       <Route path="/forgot-password" element={<ForgotPassword/>} />
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59       <Route path="/about" element={<About/>} />
60       <Route path="/contact" element={<Contact/>} />
61       <Route path="/policy" element={<Policy/>} />
62       <Route path="*" element={<PageNotFound/>} />
63     </Routes>
64   </>
65 )

```

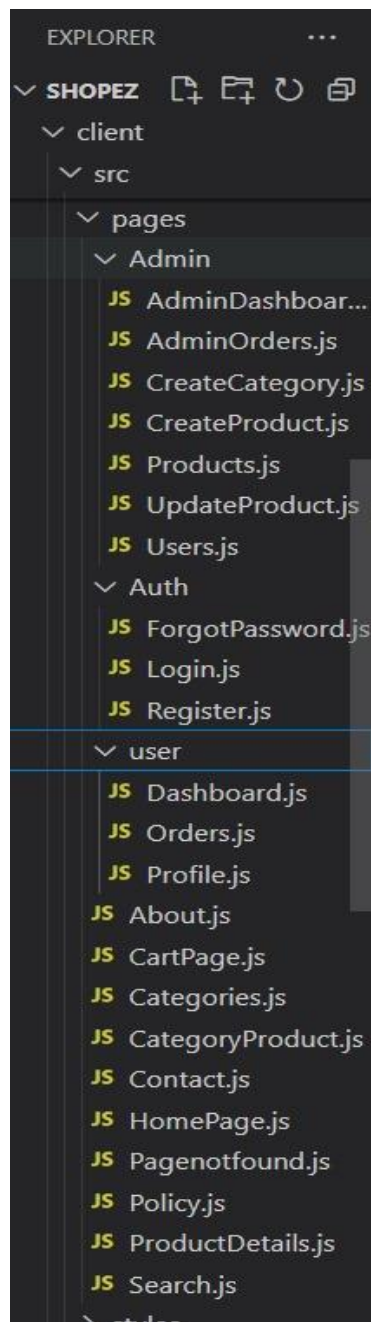
2. /components

- Contains reusable UI components used across the application.
- The layout of the app is decided by Form, Layout, Routes which comes under components



3. /pages

- Includes different pages for Web App.
- Pages include Admin Pages, UserPages ,Authentication Pages



Routing

Routing is managed using React Router. Here are the main routes:

- **/home** - Landing page of the application.

```
JS HomePage.js X
client > src > pages > JS HomePage.js > filterProduct
1 import React,{useState,useEffect} from 'react' 6.9k (gzipped: 2.7k)
2 import Layout from '../components/Layout/Layout'
3 import { useAuth } from '../context/Auth'
4 import axios from 'axios'; 61.7k (gzipped: 22.7k)
5 import {Checkbox, Radio} from 'antd'; 177k (gzipped: 57.2k)
6 import { Prices } from '../components/Prices';
7 import { useNavigate } from 'react-router-dom'; 4.9k (gzipped: 2.1k)
8 import {useCart} from '../context/cart'
9 import toast from 'react-hot-toast'; 8.7k (gzipped: 3.5k)
10
11 const HomePage = () => {
12   const navigate = useNavigate();
13   const [auth,setAuth]=useAuth();
14   const [products,setProducts] = useState([])
15   const [categories,setCategories] = useState([])
16   const [checked,setChecked]=useState([])
17   const [radio, setRadio] = useState([]);
18   const [total,setTotal] = useState(0)
19   const [page,setPage] = useState(1)
20   const [loading,setLoading] = useState(false)
21   const [cart,setCart]=useCart();
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27 //get all category
28 const getAllCategory = async () => {
29   try {
30     const { data } = await axios.get("/api/v1/category/get-category");
31     if (data?.success) {
32       setCategories(data?.category);
33     }
34   } catch (error) {
35     console.log(error);
36   }
37 };
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```

- **/dashboard** - Dashboard displaying user data and statistics.

```

Dashboard.js
client > src > pages > user > Dashboard.js > [auth]
1 import React from 'react' // 6.9k (gzipped: 2.7k)
2 import Layout from '../components/Layout/Layout'
3 import UserMenu from '../components/Layout/UserMenu'
4 import { useAuth } from '../context/Auth'
5
6 const Dashboard = () => {
7   const [auth]=useAuth()
8   return (
9     <Layout title='Dashboard-ShopEZ'>
10      <div className='container-fluid p-3 m-3'>
11        <div className='row'>
12          <div className='col-md-3'>
13            <UserMenu/>
14          </div>
15          <div className='col-md-9'>
16            <div className='card w-75 p-3'>
17              <h3>Name: {auth?.user?.name}</h3>
18              <h3>Email: {auth?.user?.email}</h3>
19              <h3>Address: {auth?.user?.address}</h3>
20              <h3>Phone: {auth?.user?.phone}</h3>
21            </div>
22          </div>
23        </div>
24      </div>
25    </Layout>
26  )
27 }
28
29 export default Dashboard
30
31

```

- **/profile** - User profile management.

```

Profile.js
client > src > pages > user > Profile.js > [auth] > [handleSubmit]
1 import React,{useState,useEffect} from 'react' // 6.9k (gzipped: 2.7k)
2 import Layout from '../components/Layout/Layout'
3 import UserMenu from '../components/Layout/UserMenu'
4 import { useAuth } from '../context/Auth'
5 import axios from 'axios' // 61.7k (gzipped: 22.7k)
6 import toast from 'react-hot-toast' // 8.7k (gzipped: 3.5k)
7
8 const Profile = () => {
9   //context
10   const [auth,setAuth] = useAuth()
11
12   //state
13   const [name, setName] = useState("");
14   const [email, setEmail] = useState("");
15   const [password, setPassword] = useState("");
16   const [phone, setPhone] = useState("");
17   const [address, setAddress] = useState("");
18
19   //get user data
20
21   useEffect(()=>{
22     const {email,name,phone,address}=auth.user
23     setName(name)
24     setEmail(email)
25     setPhone(phone)
26     setAddress(address)
27   },[auth?.user])
28
29

```

```

8 const Profile = () => {
29
30   //form function
31   const handleSubmit = async (e) => {
32     e.preventDefault();
33     try {
34       const {data} = await axios.put("/api/v1/auth/profile", {
35         name,
36         email,
37         password,
38         phone,
39         address,
40       });
41     } catch (error) {
42       if(data?.error){
43         toast.error(data?.error)
44       }else{
45         setAuth({...auth, user:data?.updatedUser})
46         let ls = localStorage.getItem("auth")
47         ls=JSON.parse(ls)
48         ls.user=data.updatedUser
49         localStorage.setItem("auth", JSON.stringify(ls));
50         toast.success("Profile Updated Successfully");
51       }
52     }
53   } catch (error) {
54     console.log(error);
55     toast.error("Something went wrong");
56   }
57 };

```

State Management

State management is achieved using Context API

```
JS Auth.js x
client > src > context > JS Auth.js > (0) AuthProvider
1 import axios from 'axios' 61.7k (gzipped: 22.7k)
2 import {useState,useContext,useEffect,createContext} from 'react' 4.6k (gzipped: 2k)
3
4
5 const AuthContext = createContext()
6
7
8
9
10 const AuthProvider = ({children})=>{
11   const [auth,setAuth] = useState({
12     user:null,
13     token:""
14   })
15
16   //default axios
17   axios.defaults.headers.common['Authorization']=auth?.token
18   useEffect(()=>{
19     const data=localStorage.getItem('auth')
20     if(data){
21       const parseData=JSON.parse(data)
22       setAuth({
23         ...auth,
24         user:parseData.user,
25         token:parseData.token,
26       })
27     }
28     //silent-disable-next-line
29   },[])
30   return(
31     <AuthContext.Provider value={[auth,setAuth]}>
32       {children}
33     </AuthContext.Provider>
34   )
35 }
36 }
```

Integration with Backend

The frontend communicates with the backend APIs hosted on [backend URL]. Key endpoints include:

User/Admin Authentication:

- **POST /api/v1/auth/register** – To register a new user
- **POST /api/v1/auth/login** - To login into the website
- **POST /api/v1/auth/forgot-password** – If the user forgets his/her password they can update it.

User Management:

- **GET /api/v1/auth/orders** – to get the order details done by the user.
- **PUT /api/v1/auth/profile** – To update the users profile
- **GET/api/v1/product/braintree/payment** – take users to payment gateway
- **GET/api/v1/product/product-category/\${params.slug}** – to get product by category
- **GET /api/v1/category/get-category** – To get all categories of products
- **GET /api/v1/product/product-list/\${page}**- To get product list by loading more in the page
- **GET/api/v1/product/product-count** – To get total count of products
- **POST/api/v1/product/product-filters** – To filter the products
- **GET/api/v1/product/related-product** – To get similar product details
- **GET/api/v1/product/get-product/\${params.slug}** -To get a particular product

Admin Management

- **GET/api/v1/auth/all-orders** – To get all the orders of the users
- **PUT/api/v1/auth/order-status/\${orderId}** - to change/ update the status of the order done by the user
- **POST/api/v1/category/create-category** – to create category
- **GET/api/v1/category/update-category/\${selected._id}**: to update category based on the id of the category
- **DELETE/api/v1/product/delete-category/\${pid}** – to delete the category based on the id
- **POST/api/v1/product/create-product** – to create product
- **GET/api/v1/product/get-product** – to get all products
- **PUT/api/v1/product/update-product** – to update product
- **DELETE/api/v1/product/delete-product/\${id}** – to delete product based on the id
- **GET/api/v1/product/search/\${values.keyword}** to search products based on keywords

User Interface (UI) Design

Key UI design principles include clarity (simplicity and visual hierarchy), consistency (uniform design elements and predictable patterns), feedback (interactive responses and clear error handling), affordance (intuitive elements), accessibility (inclusive and responsive design), efficiency (minimized user effort and fast loading times), aesthetic integrity (attractive design and brand consistency), user control (undo/redo and customizability), discoverability (clear navigation and helpful hints), error prevention and recovery (minimizing and easily correcting errors), and adherence to platform standards. For a MERN e-commerce app, ensure clear product listings, streamlined checkout, responsive design, and simple, secure user account processes to create a user-friendly and efficient platform.

Third-Party Integrations

- Braintree
- Bootstrap