**Full Stack Ecommerce Website Development Using React, Spring Boot, MySql And Payment Gatway**

**Technologies Used:** **React, Spring Boot, MySQL, And Payment Gateway (RazorPay)**

**frontEnd : react , Backend : SpringBoot , Payment gateway : Razor Pay**

**Customer**

* Carousel
* sorting feature,
* pagination,
* filter,
* add to cart,
* buy,
* payment gateway,
* track order,
* review and rate product

**Admin**

* admin panel,
* add product,
* manage order,
* change order status

**Create React App Using :** *npx create-react-app project\_name or we can use npx create-react-app . (. Is used to current folder makes our project ) if we want to create new projet folder we can use npx create-react-app project\_name in this format*

**Downloads :**

**react alice carousel (2.7.1)**

**Mui :** *npm install @mui/material @emotion/react @emotion/styled*

**Mui – icon :** *npm install @mui/icons-material @mui/material @emotion/styled @emotion/react*

**Tailwand css :**

* + - *npm install -D tailwindcss@3*
    - *npx tailwindcss init :* ***Created Tailwind CSS config file: tailwind.config.js***

replace **tailwind.config.js** file with below code

*/\*\* @type {import('tailwindcss').Config} \*/*

*module.exports = {*

*content: [*

*"./src/\*\*/\*.{js,jsx,ts,tsx}",*

*],*

*theme: {*

*extend: {},*

*},*

*plugins: [],*

*}*

**index.css**

Add below code In **index.css** file

*@tailwind base;*

*@tailwind components;*

*@tailwind utilities;*

**Run Project Using :** *npm start*

*----------------------------- 30/4/25 For Navigation Bar -----------------------------*

* **className (from Tailwind or CSS)**
* **sx Prop (from Material UI)**

**\src\customer\components\navigation\Navigation.jsx**

**Navigation.jsx**

**Navigation Bar :** [*https://tailwindcss.com/plus/ui-blocks/ecommerce/components/store-navigation*](https://tailwindcss.com/plus/ui-blocks/ecommerce/components/store-navigation)

(Use This link To get readyMade Navbar From Tailwind Doc )

### *npm install @heroicons/react :* ( Icons for UI This library provides SVG-based icons (like shopping carts, chevrons, user profiles, etc.) that you can use directly in React components.)

### *npm install @headlessui/react :* ***(***Accessible UI components (without styles)

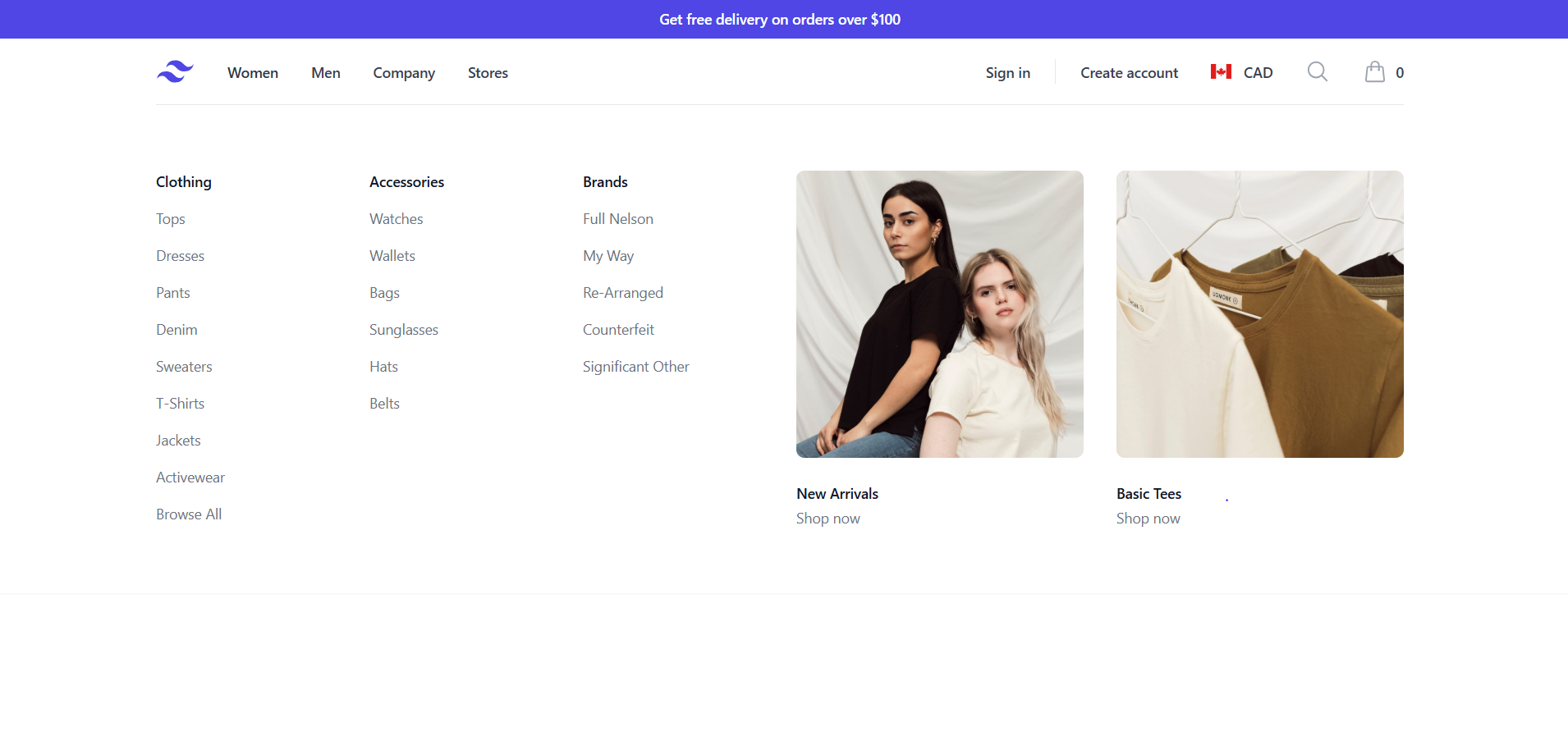
This library gives you interactive components like:

* Dialogs (modals)
* Dropdowns
* Tabs
* Menus
* Disclosures (accordions)

Install : *npm install react-router-dom react-redux*

But without any built-in styling, you can fully customize them (usually with Tailwind CSS).

So Navbar look like this



*react-alice-carousel* : is a React carousel/slider library used to create image sliders, carousels, or galleries in React applications.

**Key Features :**

Responsive — works across devices and screen sizes

* Touch-friendly — supports swipe/drag gestures on mobile
* Autoplay support
* Infinite loop
* Custom buttons/dots
* Lightweight and easy to integrate

*-------------------------------- To Create React Alice Carousel -----------------------------------*

Install : *npm i react-alice-carousel*

Go to the <https://maxmarinich.github.io/react-alice-carousel/> and copy the code of Basic Example

And paste it into **\src\customer\components \ HomeCarousel \ MainCarousel.jsx** and then use < MainCarousel > inside **\src\customer\components \pages\HomePage.jsx**

**Images are stored inside \src\customer\components \ HomeCarousel \ MainCarouselData.js**

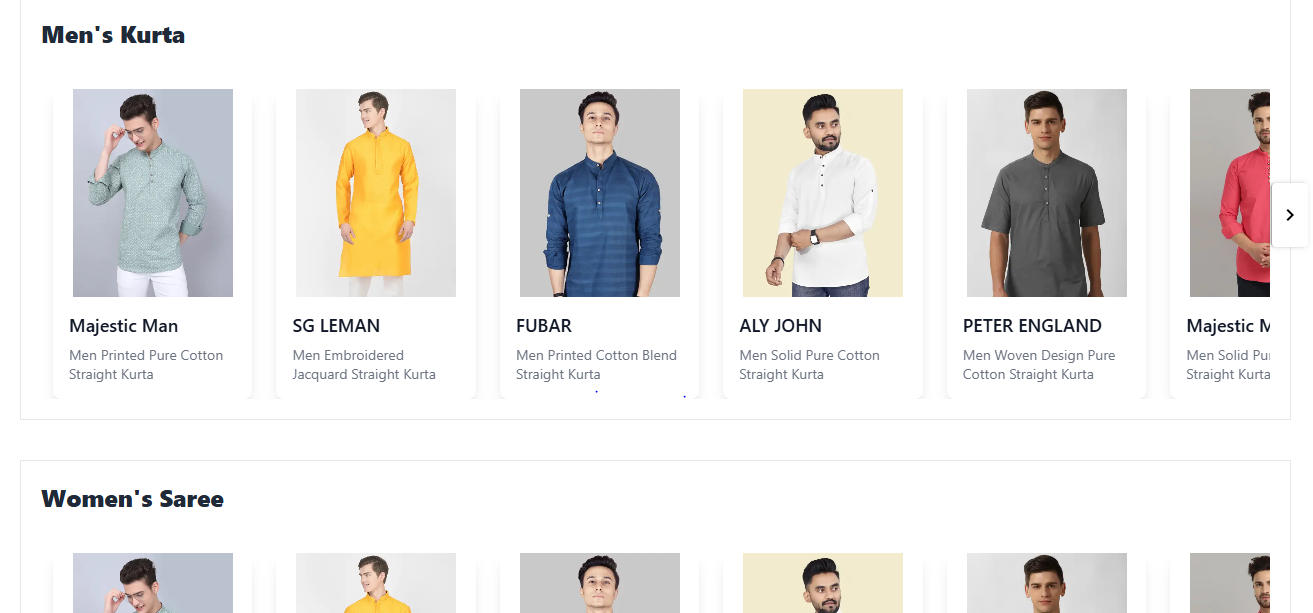


*-------------------------- To Create HomeSection Card --------------------------------*

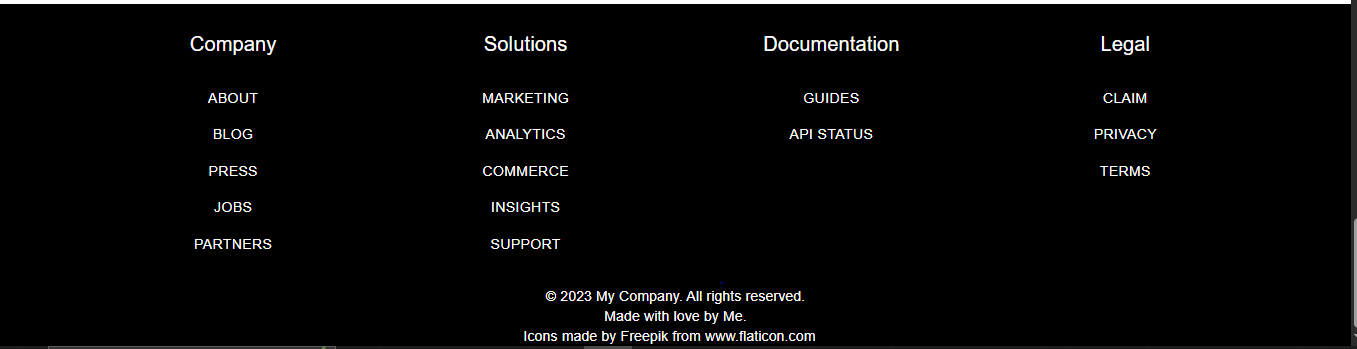
Created **HomeSectionCard** inside **\src\customer\components \ HomeSectionCard \ HomeSectionCard.jsx** created to display images in card format

Created **HomeSectionCard** inside **\src\customer\components \ HomeSectionCarousel**

**\ HomeSectionCarousel.jsx** created to display image card’s in responsive manner **<HomeSectionCard/>** is used inside it



Created **Footer.jsx** inside **\src\customer\components \ Footer\ Footer.jsx**



*---------------------------------- 01/05/2025 Product Page ----------------------------------------*

For filters: <https://tailwindcss.com/plus/ui-blocks/ecommerce/components/category-filters>

For Radio Button: <https://mui.com/material-ui/react-radio-button/>

For filtericon : https://mui.com/material-ui/material-icons/?query=filter&selected=FilterList

Product component Is created inside it 3 files are created

**\src\customer\components \ Product\ Product.jsx**

* Used to filter and add dynamically product data which is displayed on screen

**\src\customer\components \ Product \ ProductCard.jsx**

* Card is designed (rg. Its size h,w etc)

**\src\customer\components \ Product \ ProductCard.css**

* Css for card , applied animation, transformation
* For location we used **react-router-dom**

The react-router-dom library is used in React applications to **handle routing**, i.e., navigation between different pages or components **without reloading the entire web page**. It allows you to create **single-page applications (SPAs)** with **multiple views**.

**Single Page Application (SPA):**

* Only parts of the UI change when the route changes; the page doesn’t reload completely.

**Navigation Components:**

* <Link> and <NavLink>: Used instead of <a> tags for internal navigation.
* <Navigate>: Redirects users programmatically.

**Route Matching & Rendering:**

* <Routes> and <Route> decide which component to render based on the URL.

---------------------------------------- 02-05-2025 Product Data -------------------------------------

For Rating : <https://mui.com/material-ui/react-rating/>

Form Progress: https://mui.com/material-ui/react-stepper/

**\src\customer\components \ ProductDetails\ ProductDetails.jsx**

**ProductDetails.jsx –** It contains all details about the product like it’s size,price, rating,review etc.

**ProductDetailsCard.jsx-** It contains all ratings and reviews which is imported inside the **ProductDetails.jsx**

Inside **ProductDetails.jsx** different sections are created for rating and reviews, similar products

**\src\customer\components \ Cart\ Cart.jsx –** item details are displayed like price, discount, delivery charges

**\src\customer\components \ Cart \ CartItem.jsx-** cart is imported inside it

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**\src\customer\components \ Checkout \ Checkout.jsx**

**\src\customer\components \ Checkout \ DeliveryAddressForm.jsx**

* AddressCard.jsx is imported in DeliveryAddressForm.jsx

**\src\customer\components \ Checkout \ OrderSummary.jsx**

**\src\customer\components \ AddressCard \ AddressCard.jsx**