
Architecture

Shopping Cart

Abhishek Kumar

The shopping cart gives a record of all the items selected by the buyer to be purchased, the number of units or quantity desired to be bought per item selected, and the price for each item. In other words, a shopping cart is software that facilitates online purchases.

This App is built using React.js and

- React is a JavaScript library for building user interfaces.
- React is used to build single-page applications.
- React allows us to create reusable UI components.

The Project file architecture are as follow: -

- node_modules – It contains all the important modules that is used in this project.
- src – It contains two sub-folders: -
 - components – Components are independent and reusable bits of code. They serve the same purpose as JavaScript functions, but work in isolation and return HTML. And inside this different file are there which is useful like

header.js which is used in homepage as well as cart page.

- context – It contains two file which is context.js and reducer.js
- App.css – It used in styling the app using CSS.
- App.js – This file consists of all component and routing is done in this file. When and where to direct after clicking this all is managed in this file.

Routing is a process in which a user is directed to different pages based on their action or request. ReactJS Router is mainly used for developing Single Page Web Applications. React Router is used to define multiple routes in the application. When a user types a specific URL into the browser, and if this URL path matches any 'route' inside the router file, the user will be redirected to that particular route. React Router is a standard library system built on top of the React and used to create routing in the React application using React Router Package. It provides the synchronous URL on the browser with data that will be displayed on the web page. It maintains the standard

structure and behaviour of the application and mainly used for developing single page web applications.

- Index.js - Index.js file is just like index.html file, if no specification is provided a directory point to its index file. Index files are equivalent doesn't matter if it's JavaScript or typescript.
- .gitignore – This file contains all the important or the file which should be not uploaded while making it public.
- package.json is used to store the metadata associated with the project as well as to store the list of dependency packages. In order to add dependency packages to your projects, you need to create package.json file. The file makes it easy for others to manage and install the packages associated with the project.
- A package.Json file:
 - ▢ lists the packages your project depends on
 - ▢ specifies versions of a package that your project can use.

- makes your build reproducible, and therefore easier to share with other developers.