



**School of Computer Science and Engineering**

Lovely Professional University

Phagwara, Punjab (India)

# Ecommerce Website

(Amazon)

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Advance Web Development

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RKM012A24

SUBMITTED TO: **Ms. Neha Sharma**

## GitHub Repo.

<https://github.com/ankit89811/Ecommerce-website.git>

## Overview

Ecommerce website (Amazon) is basically a kind of clone of big online shopping website amazon. In this you can see the products and select them, and you can also add them into your cart. In this web application you can categorize the products by seeing their ratings.

## Goals

The aim of this project is to design a responsive template, implement a user-friendly frontend and develop a scalable backend.

## Specifications

- HTML and CSS including grid, flexbox and responsive design.
- JavaScript to make dynamic pages like folding menus
- React library to build Ecommerce frontend like sign-in form, shopping cart and etc
- Node and Express framework to run web server and API endpoint
- MongoDB and Mongoose to save and retrieve data like products, orders and users

## Technology Used

HTML&CSS

JavaScript

React.js

Redux

Node-Js

Express-Js

MongoDB

Mongoose

GIT

## Other Modules

Code-Editor

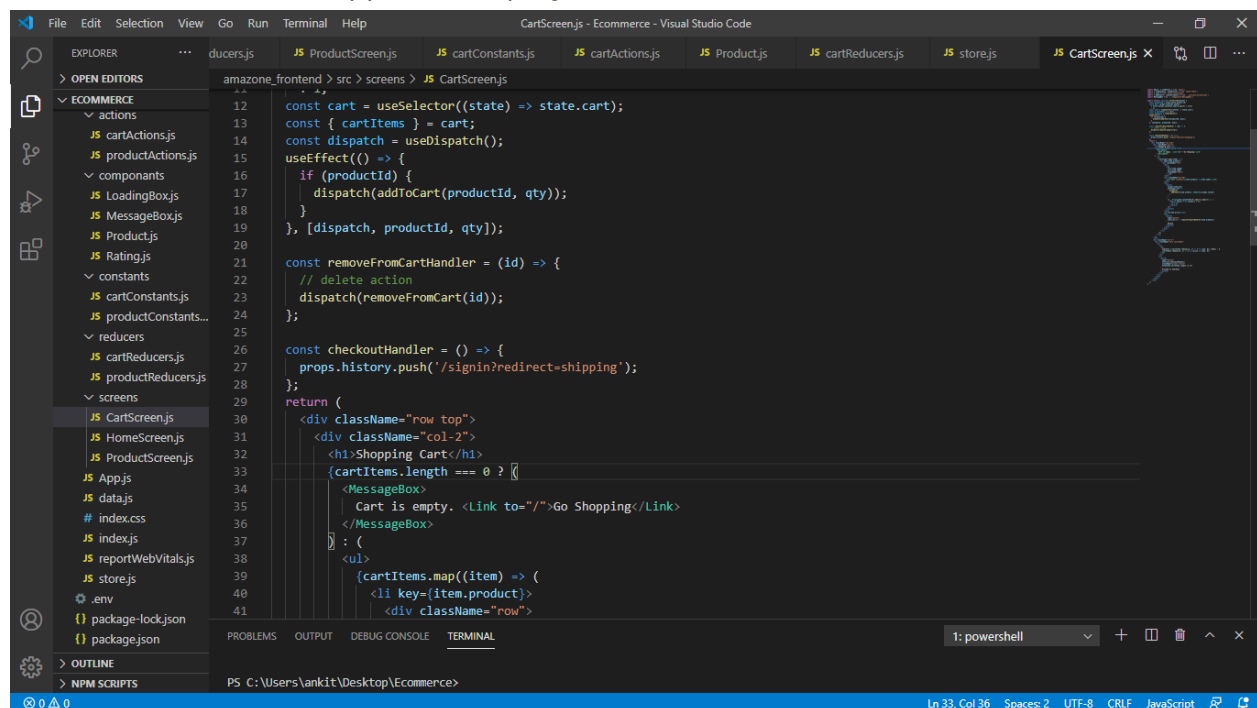
Vs code

Git-hub

GitHub repo for pushing the code and make it available via the GitHub repo.

## Code Snippet

These are some code snippet of the project.



```
12 const cart = useSelector((state) => state.cart);
13 const { cartItems } = cart;
14 const dispatch = useDispatch();
15 useEffect(() => {
16   if (productId) {
17     dispatch(addToCart(productId, qty));
18   }
19 }, [dispatch, productId, qty]);
20
21 const removeFromCartHandler = (id) => {
22   // delete action
23   dispatch(removeFromCart(id));
24 };
25
26 const checkoutHandler = () => {
27   props.history.push('/signin?redirect=shipping');
28 };
29
30 return (
31   <div className="row top">
32     <div className="col-2">
33       <h1>Shopping Cart</h1>
34       {cartItems.length === 0 ? (
35         <MessageBox>
36           Cart is empty. <Link to="/">Go Shopping</Link>
37         </MessageBox>
38       ) : (
39         <ul>
40           {cartItems.map((item) => (
41             <li key={item.product}>
42               <div className="row">
```

serverjs - Ecommerce - Visual Studio Code

EXPLORER

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- ECOMMERCE
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    - serverjs**
  - amazon\_frontend
  - node\_modules
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  - src
    - actions
      - cartActions.js
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    - components
      - LoadingBox.js
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      - cartConstants.js
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    - reducers
      - cartReducers.js
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      - HomeScreen.js
      - ProductScreen.js
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- NPM SCRIPTS

amazon\_backend > JS serverjs

```

1 import express from 'express';
2 import data from './data.js';
3
4 const app = express();
5
6 app.get('/api/products/:id', (req, res) => {
7   const product = data.products.find((x) => x._id === req.params.id);
8   if (product) {
9     res.send(product);
10  } else {
11    res.status(404).send({ message: 'Product Not Found' });
12  }
13 });
14
15 app.get('/api/products', (req, res) => {
16   res.send(data.products);
17 });
18
19 app.get('/', (req, res) => {
20   res.send('Server is ready');
21 });
22
23 const port = process.env.PORT || 5000;
24 app.listen(port, () => {
25   console.log(`Serve at http://localhost:${port}`);
26 });

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: powershell

PS C:\Users\ankit\Desktop\Ecommerce>

Ln 25, Col 4 Spaces: 2 UTF-8 CRLF JavaScript

datajs - Ecommerce - Visual Studio Code

EXPLORER

- OPEN EDITORS
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  - App.js
  - data.js
- OUTLINE
- NPM SCRIPTS

amazon\_backend > JS datajs

```

1 const data = {
2   products: [
3     {
4       _id: '1',
5       name: 'Nike Slim Shirt',
6       category: 'Shirts',
7       image: '/images/p1.jpg',
8       price: 120,
9       countInStock: 10,
10      brand: 'Nike',
11      rating: 4.5,
12      numReviews: 10,
13      description: 'high quality product',
14    },
15    {
16      _id: '2',
17      name: 'Adidas Fit Shirt',
18      category: 'Shirts',
19      image: '/images/p2.jpg',
20      price: 100,
21      countInStock: 20,
22      brand: 'Adidas',
23      rating: 4.0,
24      numReviews: 10,
25      description: 'high quality product',
26    },
27    {
28      _id: '3',
29      name: 'Lacoste Free Shirt',
30      category: 'Shirts',
31      image: '/images/p3.jpg',
32      price: 80,
33      countInStock: 5,
34      brand: 'Lacoste',
35      rating: 3.8,
36      numReviews: 5,
37      description: 'high quality product',
38    }
39  ]
40 };

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

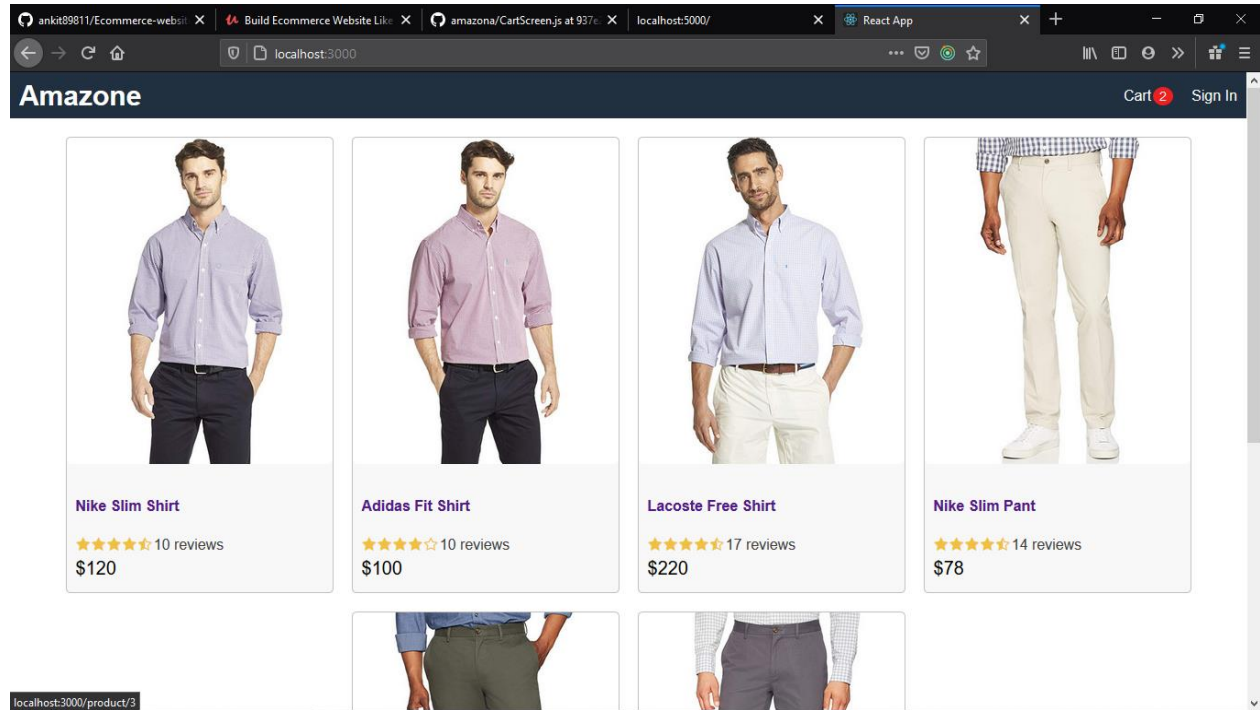
1: powershell

PS C:\Users\ankit\Desktop\Ecommerce>

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF JavaScript

## Screenshots

Here are some screenshots of the project.



Nike Slim Shirt

★★★★☆ 10 reviews

\$120

Adidas Fit Shirt

★★★★☆ 10 reviews

\$100

Lacoste Free Shirt


★★★★☆ 17 reviews

\$220

Nike Slim Pant

★★★★☆ 14 reviews

\$78



Puma Slim Pant

★★★★☆ 10 reviews

\$65

Adidas Fit Pant

★★★★☆ 15 reviews

\$139


localhost:3000/product/6

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Amazone

Cart Sign In

Back to result



Adidas Fit Shirt

★★★★☆ 10 reviews

Price : \$100

Description:  
high quality product

Price \$100

Status In Stock

Add to Cart

Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application Redux

Filter URLs

Status	Method	Domain	File	Initiator	Type	Transferred	Size	0 ms
304	GET	localhost:3000	2	0.chunk.js:701 (xhr)	json	cached	193 B	12 ms

1 request 193 B / 0 B transferred Finish: 525 ms DOMContentLoaded: 341 ms load: 369 ms

The screenshot shows a web browser with the URL `localhost:3000`. The page displays four product images: three shirts and one pair of pants. The Chrome DevTools Network tab is open, showing a list of network requests. The selected request is `main.chunk.js`, which is a script file of size 0 B, cached, and took 17 ms to load. The status bar at the bottom indicates 15 requests, 526.71 KB / 376.22 KB transferred, and a finish time of 42.34 s.

Status	Method	Domain	File	Initiator	Type	Transferred	Size	Time
304	GET	localhost:3000	2	BrowserTabChild.jsm:102 (doc...	html	cached	1.89 KB	3 ms
304	GET	localhost:3000	bundle.js		script	cached	35.05 KB	6 ms
304	GET	localhost:3000	0.chunk.js		script	cached	0 B	16 ms
304	GET	localhost:3000	main.chunk.js		script	cached	0 B	17 ms
101	GET	localhost:3000	sockjs-node		websocket	plain	129 B	3 ms
304	GET	localhost:3000	2	0.chunk.js:701 (xhr)	json	cached	193 B	12 ms
280	GET	localhost:3000	logo192.png	FaviconLoader.jsm:179 (img)	png	cached	5.22 KB	0 ms
280	GET	localhost:3000	favicon.ico	FaviconLoader.jsm:179 (img)	x-icon	cached	3.78 KB	0 ms

The screenshot shows the same web browser with the URL `localhost:3000`. The page displays four product cards: "Nike Slim Shirt" (\$120, 10 reviews), "Adidas Fit Shirt" (\$100, 10 reviews), "Lacoste Free Shirt" (\$220, 17 reviews), and "Nike Slim Pant" (\$78, 14 reviews). The Chrome DevTools Redux tab is open, showing the state of the application. The state is an object with `productList` (an array of product objects) and `loading` (a boolean). The `loading` state is currently `true`, and the `productList` state contains one product object: `{_id: '1', name: 'Nike Slim Shir...product'}`.

```
filter...
@@@INIT
PRODUCT_DETAILS_REQUEST
PRODUCT_DETAILS_SUCCESS
PRODUCT_LIST_REQUEST
PRODUCT_LIST_SUCCESS
```

Diff

Tree

```
Raw
productList (p1)
  loading (p1): true => false
  products (p1): [{_id: '1', name: 'Nike Slim Shir...product'}]
```

The screenshot displays a web browser window with the URL `localhost:3000`. The page shows a grid of four product cards:

- Nike Slim Shirt**: 5 stars, 10 reviews, \$120
- Adidas Fit Shirt**: 5 stars, 10 reviews, \$100
- Lacoste Free Shirt**: 5 stars, 17 reviews, \$220
- Nike Slim Pant**: 5 stars, 14 reviews, \$78

Below the browser window, the Chrome DevTools Network tab is open, showing a list of requests. The selected request is `GET http://localhost:3000/product/2`, which returned a `304 Not Modified` status. The response headers are visible:

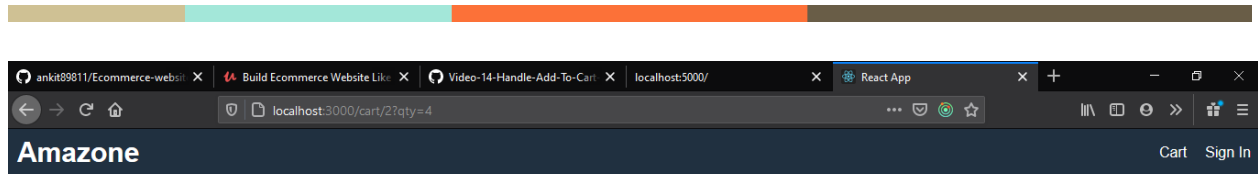
- `Accept-Ranges: bytes`
- `Connection: keep-alive`
- `Date: Mon, 02 Nov 2020 13:56:54 GMT`
- `Etag: W/778f-+jTg1Yq/vBb4Tmd22DUqbm/zyA`
- `X-Powered-By: Express`

The request headers are also visible:

- `Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8`
- `Accept-Encoding: gzip, deflate`
- `Accept-Language: en-US,en;q=0.5`
- `Cache-Control: max-age=0`
- `Connection: keep-alive`

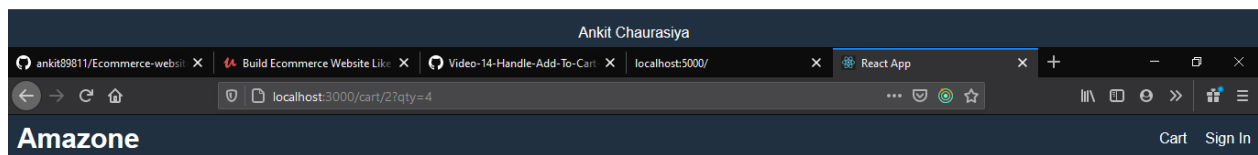
The bottom status bar of DevTools shows: 16 requests, 527.19 KB / 377.01 KB transferred, Finish: 1.65 min, DOMContentLoaded: 341 ms, load: 369 ms.





### Cart Screen

ADD TO CART : ProductID: 2 Qty: 4

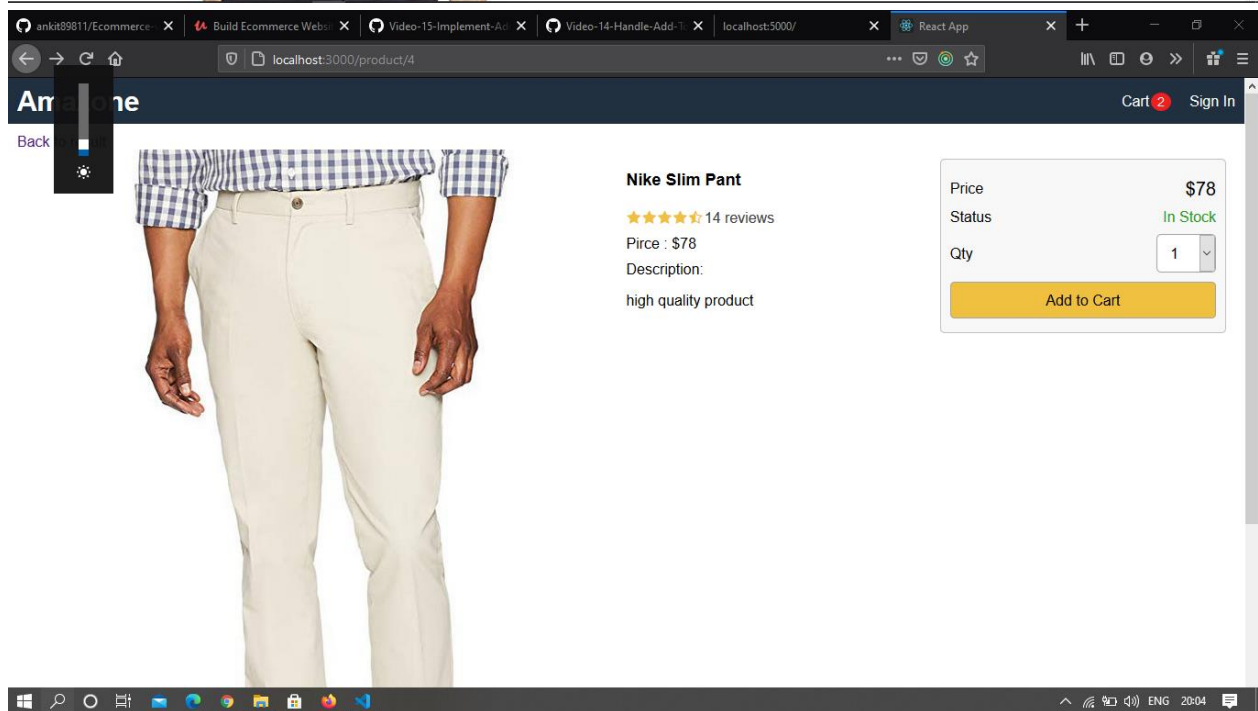
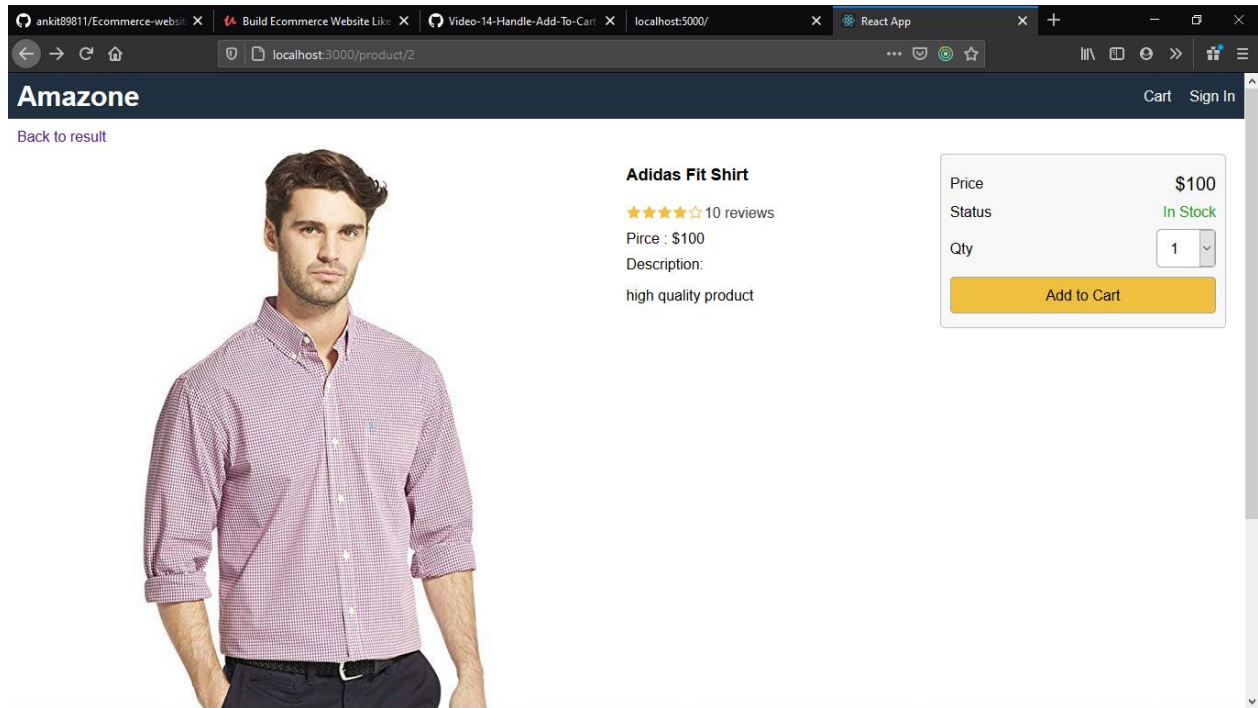


### Cart Screen

ADD TO CART : ProductID: 2 Qty: 4



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ankit89811/Ecommerce

Build Ecommerce Webs

Video-15-Implement-Au

Video-14-Handle-Add-T


localhost:5000/

React App

localhost:3000/product/4

Cart 2 Sign In

Back to result



**Nike Slim Pant**  
★★★★★ 14 reviews  
Price : \$78  
Description:  
high quality product

Price\$78

StatusIn Stock

Qty1

Add to Cart

Inspector

Diff

React App

filter...

Commit

Tree

Raw

product: {  
 "\_id": "4",  
 "name": "Nike Slim Pant",  
 "category": "Pants",  
 "image": "/images/p4.jpg",  
 "price": 78,  
 "countInStock": 15,  
 "brand": "Nike",  
 "rating": 4.5,  
 "numReviews": 14,  
 "description": "high quality product"  
}

Pause recording

Lock changes

Persist

Dispatcher

Slider

Import

Export

Remote

Settings

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Build Ecommerce Webs

Video-16-Build-Cart-Scri

Video-14-Handle-Add-T


localhost:5000/

React App

localhost:3000/cart/6?qty=4

Cart 3 Sign In

Shopping Cart




Adidas Fit Shirt

1

\$100

Delete




Nike Slim Pant

3

\$78

Delete



Adidas Fit Pant

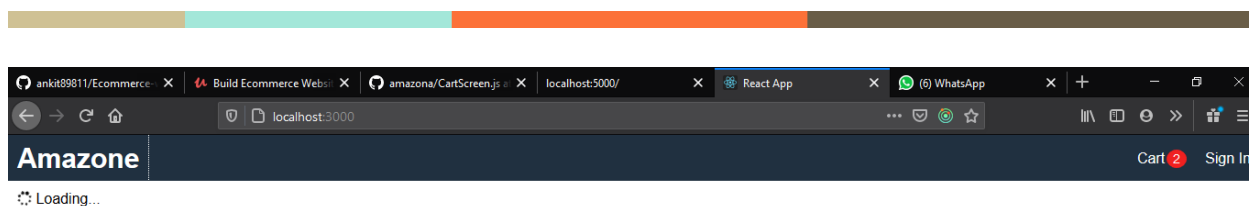
4

\$139

Delete

Subtotal (8 items) : \$890

Proceed to Checkout



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