Contents

[INSTALLATION OF React-Bootstrap: 2](#_Toc82599061)

[Run code in terminal: 2](#_Toc82599062)

[Import bootstrap in index.js 2](#_Toc82599063)

[HEADER COMPONENT 2](#_Toc82599064)

[Create Header.js file inside components folder. 2](#_Toc82599065)

[Create NavBar using bootstrap 3](#_Toc82599066)

[INSTALL React-icons in terminal 4](#_Toc82599067)

[CREATING PAGE ROUTES 5](#_Toc82599068)

[INSTALL react-router-dom 5](#_Toc82599069)

[SETUP CONTEXT API 6](#_Toc82599070)

[GENERATING PRODUCTS JSON 7](#_Toc82599071)

[Installation 7](#_Toc82599072)

[useReducer Hook 8](#_Toc82599073)

[HOME PAGE UI 9](#_Toc82599074)

[Sending props to SingleProduct.js 10](#_Toc82599075)

[FILTER COMPONENT UI 11](#_Toc82599076)

[RATING COMPONENT UI 13](#_Toc82599077)

[SINGLE PRODUCT COMPONENT UI 15](#_Toc82599078)

[TO PREVENT DATA TO CHANGE EVERY UPDATE 15](#_Toc82599079)

[ADD/ REMOVE FROM CART FUNCTIONALITY 16](#_Toc82599080)

[IMPORTING CONTEXT STATE i.e. CartState() 17](#_Toc82599081)

[HEADER CART DROPDOWN 19](#_Toc82599082)

[GO TO CART BUTTON 21](#_Toc82599083)

[CART PAGE 21](#_Toc82599084)

[CREATING BETTER VIEW FOR PRODUCTS IN CART 22](#_Toc82599085)

[CHANGE CART QUANTITY FUNCTIONALITY 25](#_Toc82599086)

[Add action type in reducer.js 25](#_Toc82599087)

[FILTERS IMPLEMENTATION 25](#_Toc82599088)

[Filters useReducer: 25](#_Toc82599089)

[CREATE USEREDUCER IN CONTEXT.JS 25](#_Toc82599090)

[CREATING productReducer IN Reducers.js 26](#_Toc82599091)

[Import productReducer in Context.js 26](#_Toc82599092)

[MANIPULATE STATE IN REDUCERS 26](#_Toc82599093)

[NOW IMPLEMENTING ON OUR APP 27](#_Toc82599094)

[NOW SEARCH BUTTON OF HEADER.JS 30](#_Toc82599095)

[TRANSFORM PRODUCTS LOGIC 31](#_Toc82599096)

[First bring all product state from context api 31](#_Toc82599097)

[Logical Function to render products according to filters 31](#_Toc82599098)

[Return method of Home.js 31](#_Toc82599099)

[Displaying those which are out of stock in home.js 32](#_Toc82599100)

[Displaying those which are fast delivery in home.js 32](#_Toc82599101)

[Displaying according to rating filters 32](#_Toc82599102)

[Searching 32](#_Toc82599103)

[MOBILE RESPONSIVE STYLES 32](#_Toc82599104)

# INSTALLATION OF React-Bootstrap:

<https://react-bootstrap-v4.netlify.app/getting-started/introduction>

## Run code in terminal:

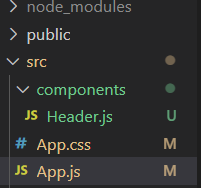
npm install react-bootstrap bootstrap@4.6.0

## Import bootstrap in index.js

import 'bootstrap/dist/css/bootstrap.min.css';

# HEADER COMPONENT

## Create Header.js file inside components folder.



App.js

import './App.css';

import Header from './components/Header';

function App() {

  return (

    <div className="App">

      <Header/>

    </div>

  );

}

export default App;

## Create NavBar using bootstrap

Header.js

import React from 'react'

import { Container,FormControl,Navbar,Dropdown } from 'react-bootstrap'

const Header = () => {

    return (

        <Navbar bg='dark' variant='dark'

        style={{height:80}}>

            <Container>

                <Navbar.Brand>

                    <a href="/">Yakkha Bakery Shop</a>

                </Navbar.Brand>

                <Navbar.Text className='search'>

                    <FormControl

                        style={{width:500}}

                        placeholder='Search our products'

                        className='m-auto'

                    />

                </Navbar.Text>

                <Dropdown>

                <Dropdown.Toggle variant="success" id="dropdown-basic">

                    Dropdown Button

                </Dropdown.Toggle>

                <Dropdown.Menu>

                    <Dropdown.Item href="#/action-1">Action</Dropdown.Item>

                    <Dropdown.Item href="#/action-2">Another action</Dropdown.Item>

                    <Dropdown.Item href="#/action-3">Something else</Dropdown.Item>

                </Dropdown.Menu>

                </Dropdown>

            </Container>

        </Navbar>

    )

}

export default Header

App.css

a{

    text-decoration: none !important;

    color: inherit !important;

}

## INSTALL React-icons in terminal

npm install react-icons --save

Header.js

import React from 'react'

import { Container,FormControl,Navbar,Dropdown } from 'react-bootstrap'

const Header = () => {

    return (

        <Navbar bg='dark' variant='dark'

        style={{height:80}}>

            <Container>

                <Navbar.Brand>

                    <a href="/">Yakkha Bakery Shop</a>

                </Navbar.Brand>

                <Navbar.Text className='search'>

                    <FormControl

                        style={{width:500}}

                        placeholder='Search our products'

                        className='m-auto'

                    />

                </Navbar.Text>

                <Dropdown alignRight>

                <Dropdown.Toggle variant="success" id="dropdown-basic">

                    Dropdown Button

                </Dropdown.Toggle>

                <Dropdown.Menu>

                    <Dropdown.Item href="#/action-1">Action</Dropdown.Item>

                    <Dropdown.Item href="#/action-2">Another action</Dropdown.Item>

                    <Dropdown.Item href="#/action-3">Something else</Dropdown.Item>

                </Dropdown.Menu>

                </Dropdown>

            </Container>

        </Navbar>

    )

}

export default Header

# CREATING PAGE ROUTES

## INSTALL react-router-dom

* npm i react-router-dom

App.js

import { BrowserRouter,Route,Switch } from 'react-router-dom';

import './App.css';

import Header from './components/Header';

import Home from './components/Home';

import Cart from './components/Cart';

function App() {

  return (

    <BrowserRouter>

      <Header/>

      <div>

      <Switch>

        <Route path='/' exact>

          <Home />

        </Route>

        <Route path='/cart' exact>

          <Cart />

        </Route>

      </Switch>

      </div>

    </BrowserRouter>

  );

}

export default App;

Header.js

 <Navbar.Brand>

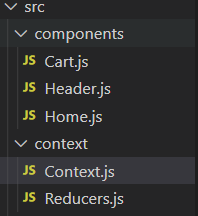
      <Link to="/">Yakkha Bakery Shop</Link>

 </Navbar.Brand>

Folder:



# SETUP CONTEXT API



Context.js

import React from 'react'

import {createContext} from "react";

const Cart = createContext();

const Context = ({children }) => {

    return (

        <Cart.Provider>

             {children}

        </Cart.Provider>

    )

}

export default Context;

Index.js

import React from 'react';

import ReactDOM from 'react-dom';

import './index.css';

import App from './App';

import 'bootstrap/dist/css/bootstrap.min.css';

import Context from "./context/Context";

ReactDOM.render(

  <React.StrictMode>

    <Context>

      <App />

    </Context>

  </React.StrictMode>,

  document.getElementById('root')

);

# GENERATING PRODUCTS JSON

We will use faker to create fake json.

Installation: npm i faker

Context.js

import React from 'react'

import {createContext} from "react";

import faker from "faker";

const Cart = createContext();

const Context = ({children }) => {

    //creating fake json

    const products = [...Array(20)].map(() => ({

        id: faker.datatype.uuid(),

        name: faker.commerce.productName(),

        price: faker.commerce.price(),

        image: faker.random.image(),

        inStock: faker.random.arrayElement([0,3,5,6,7]),

        fastDelivery: faker.datatype.boolean(),

        ratings: faker.random.arrayElement([1,2,3,4,5]),

    }));

    console.log(products);

    return (

        <Cart.Provider>

             {children}

        </Cart.Provider>

    )

}

export default Context;

# useReducer Hook

Context.js

const [state, dispatch] = useReducer(cartReducer, {

        products: products,

        cart: [] //empty array where we will add our products in future

    })

Reducers.js

export const cartReducer = (state,action) => {

    switch (action.type){

        default:

            return state;

    }

};

Import cartReducer in context.js

import { cartReducer } from './Reducers';

Context.js

<Cart.Provider value={{state,dispatch}}>

             {children}

</Cart.Provider>

export default Context;

export const CartState = () =>{

    return useContext(Cart)

}

# HOME PAGE UI

Home.js

import React from 'react'

import {CartState} from '../context/Context';

const Home = () => {

    const {state} = CartState();

    console.log(state);

    return (

        <div>

            Home

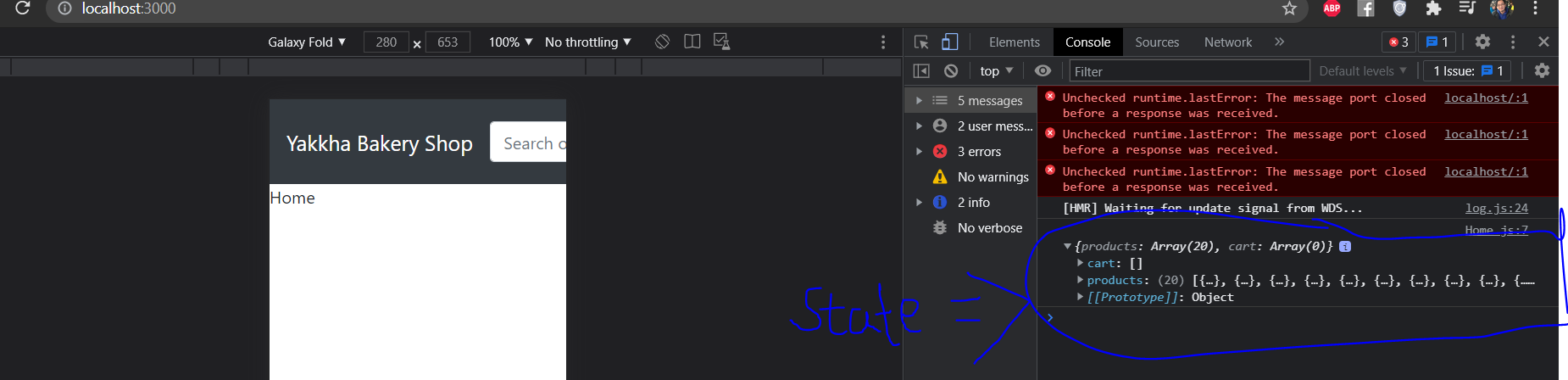
        </div>

    )

}

export default Home

SS:



import React from 'react'

import {CartState} from '../context/Context';

const Home = () => {

    const {

        state : {products},

    } = CartState();//only getting products state from context api state

    return (

        <div className='home'>

            {/\* <Filters/> \*/}

            <div className='productContainer'>

                {products.map((prod) => {

                    return <span>{prod.name}</span>

                })}

            </div>

        </div>

    )

}

export default Home

## Sending props to SingleProduct.js

import React from 'react'

import {CartState} from '../context/Context';

import SingleProduct from './SingleProduct';

const Home = () => {

    const {

        state : {products},

    } = CartState();

    return (

        <div className='home'>

            {/\* <Filters/> \*/}

            <div className='productContainer'>

                {products.map((prod,idx) => {

                    return <SingleProduct prod={prod} key={idx} />

                })}

            </div>

        </div>

    )

}

export default Home

SingleProduct.js

import React from 'react'

const SingleProduct = (props) => {

    return (

        <div>

            {props.prod.name}

        </div>

    )

}

export default SingleProduct

styles.css

.home{

    display: flex;

}

.productContainer {

    display: flex;

    width: 78%;

    padding: 20px;

    flex-wrap: wrap;

    justify-content: space-around;

}

# FILTER COMPONENT UI

Filters.js

import React from 'react'

import { Button,Form } from 'react-bootstrap'

const Filters = () => {

    return (

        <div className='filters'>

            <span className='title'>Filter</span>

            <span>

                <Form.Check

                 inline

                 label="Ascending"

                 name="group1"

                 type="radio"

                 id={`inline-1`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Descending"

                 name="group1"

                 type="radio"

                 id={`inline-2`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Include Out of Stock"

                 name="group1"

                 type="checkbox"

                 id={`inline-3`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Fast Delivery Only"

                 name="group1"

                 type="checkbox"

                 id={`inline-4`}

                 />

            </span>

            <span>

                <label style={{paddingRight: 10}}>Rating:</label>

                {/\* <Rating rating={byRating} style={{cursor: "pointed"}} /> \*/}

            </span>

            <Button variant="light">Clear</Button>

        </div>

    )

}

export default Filters

styles.css

.filters {

    background-color: rgb(60, 60, 63);

    color: white;

    padding: 20px;

    display: flex;

    flex-direction: column;

    width: 20%;

    margin: 10px;

    height: 86vh;

}

.filters > span{

    padding-bottom: 20px;

}

.title{

    font-size: 30px;

}

# RATING COMPONENT UI

import React from 'react'

import {AiFillStar,AiOutlineStar} from 'react-icons/ai';

const Rating = (props) => {

    return (

        <div>

            {

                [...Array(5)].map((\_,i) => (

                    <span

                    key={i}

                    onClick={() => props.onClick(i)}

                    style={props.style}

                    >

                        {props.rating > i ? (

                            <AiFillStar fontSize="15px" />

                        ) : (

                            <AiOutlineStar fontSize="15px" />

                        )}

                    </span>

                ))

            }

        </div>

    )

}

export default Rating

Filters.js

import React,{useState} from 'react'

import { Button,Form } from 'react-bootstrap'

import Rating from './Rating';

const Filters = () => {

    const [rate, setRate] = useState(0)

    return (

        <div className='filters'>

            <span className='title'>Filter</span>

            <span>

                <Form.Check

                 inline

                 label="Ascending"

                 name="group1"

                 type="radio"

                 id={`inline-1`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Descending"

                 name="group1"

                 type="radio"

                 id={`inline-2`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Include Out of Stock"

                 name="group1"

                 type="checkbox"

                 id={`inline-3`}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Fast Delivery Only"

                 name="group1"

                 type="checkbox"

                 id={`inline-4`}

                 />

            </span>

            <span>

                <label style={{paddingRight: 10}}>Rating:</label>

                <Rating

                rating={rate}

                onClick = {(i) => setRate(i+1)}

                style={{cursor: "pointed"}} />

            </span>

            <Button variant="light">Clear</Button>

        </div>

    )

}

export default Filters

# SINGLE PRODUCT COMPONENT UI

## TO PREVENT DATA TO CHANGE EVERY UPDATE

Context.js

const Cart = createContext();

faker.seed(99);//so data wont change every update

SingleProduct.js

import React from 'react'

import {Card,Button } from "react-bootstrap";

import Rating from './Rating';

const SingleProduct = ({prod}) => {

    return (

        <div className="products">

            <Card>

                <Card.Img

                variant="top"

                src={prod.image}

                alt={prod.name}

                />

                <Card.Body>

                    <Card.Title>

                        {prod.name}

                    </Card.Title>

                    <Card.Subtitle

                    style={{paddingBottom: 10}}>

                    <span>Rs {prod.price.split(".")[0]}</span>

                    {prod.fastDelivery ? (

                        <div>Fast Delivery</div>

                    ) : (

                        <div>4 Days Delivery</div>

                    )}

                    <Rating rating={prod.ratings} />

                    </Card.Subtitle>

                    <Button variant="danger">Remove from cart</Button>

                    <Button disabled={!prod.inStock}>

                        {!prod.inStock ? "Out of Stock" : "Add to Cart"}

                    </Button>

                </Card.Body>

            </Card>

        </div>

    )

}

export default SingleProduct

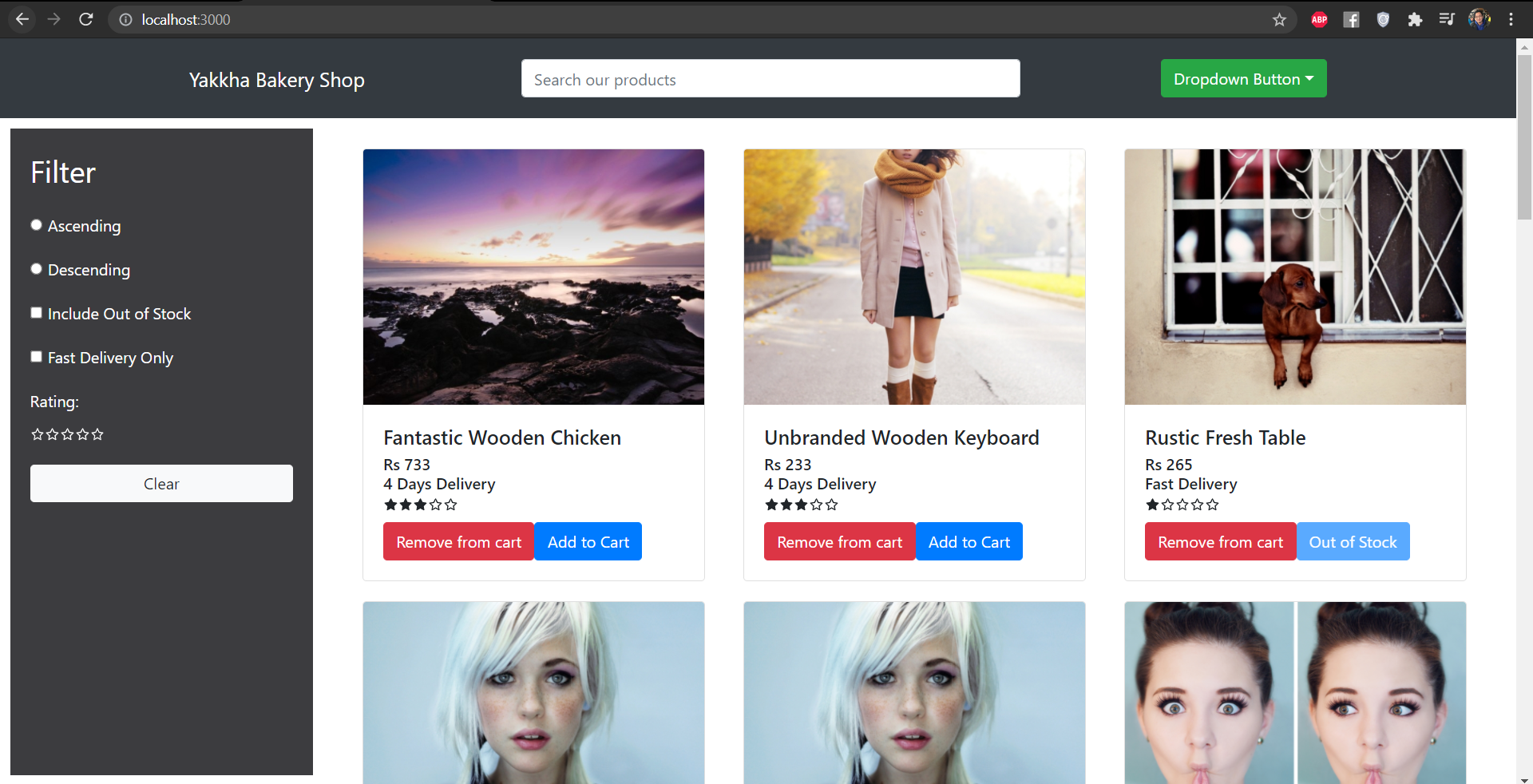
Style.css

.products {

    width: 30%;

    margin: 10px;

}



# ADD/ REMOVE FROM CART FUNCTIONALITY

REMEMBER: context.js

 const [state, dispatch] = useReducer(cartReducer, {

        products: products,

        cart: [] //empty array where we will add our products in future

    })

    return (

        //we are not using value rather we will use useReducer hooks

        <Cart.Provider value={{state,dispatch}}>

             {children}

        </Cart.Provider>

    )

}

export default Context;

export const CartState = () =>{

    return useContext(Cart)

}

Reducers.js

export const cartReducer = (state,action) => {

    switch (action.type){

        case "ADD\_TO\_CART":

            return {...state,

                cart:[...state.cart,

                {

                ...action.payload,

                qty:1

            }]}

        case "REMOVE\_FROM\_CART":

            return {...state,

                cart:state.cart.filter((c) => c.id !== action.payload.id)}

        default:

            return state;

    }

};

## IMPORTING CONTEXT STATE i.e. CartState()

SingleProducts.js [Import context state]

import React from 'react'

import {Card,Button } from "react-bootstrap";

import Rating from './Rating';

import { CartState } from '../context/Context';

const SingleProduct = ({prod}) => {

    const {

        state: { cart },

        dispatch, //for manuplating states

    } = CartState();

    return (

        <div className="products">

            <Card>

                <Card.Img

                variant="top"

                src={prod.image}

                alt={prod.name}

                />

                <Card.Body>

                    <Card.Title>

                        {prod.name}

                    </Card.Title>

                    <Card.Subtitle

                    style={{paddingBottom: 10}}>

                    <span>Rs {prod.price.split(".")[0]}</span>

                    {prod.fastDelivery ? (

                        <div>Fast Delivery</div>

                    ) : (

                        <div>4 Days Delivery</div>

                    )}

                    <Rating rating={prod.ratings} />

                    </Card.Subtitle>

                    {/\* CHECKING if particular things are available

                    in cart or not, showing add or remove on conidtion \*/}

                    {

                        cart.some(p => p.id === prod.id) ? (

                            <Button

                            onClick={() => {

                                dispatch({

                                    type: 'REMOVE\_FROM\_CART',

                                    payload: prod

                                })

                            }}

                            variant="danger">Remove from cart</Button>

                        ):(

                            <Button

                            onClick={() => {

                                dispatch({

                                    type: 'ADD\_TO\_CART',

                                    payload: prod

                                })

                            }}

                            disabled={!prod.inStock}>

                                {!prod.inStock ? "Out of Stock" : "Add to Cart"}

                            </Button>

                        )

                    }

                    {/\* onClick function in add button where we use dispatch and

                    it takes two parameters, one for type and another for payload \*/}

                </Card.Body>

            </Card>

        </div>

    )

}

export default SingleProduct

# HEADER CART DROPDOWN

Header.js

import React from 'react'

import { Container,FormControl,Navbar,Dropdown } from 'react-bootstrap'

import {Link} from "react-router-dom";

import {AiOutlineShoppingCart,AiFillDelete} from "react-icons/ai"

import { CartState } from '../context/Context';

const Header = () => {

    const {

        state: {cart},

        dispatch

    } = CartState()

    return (

        <Navbar bg='dark' variant='dark'

        style={{height:80}}>

            <Container>

                <Navbar.Brand>

                    <Link to="/">Yakkha Bakery Shop</Link>

                </Navbar.Brand>

                <Navbar.Text className='search'>

                    <FormControl

                        style={{width:500}}

                        placeholder='Search our products'

                        className='m-auto'

                    />

                </Navbar.Text>

                <Dropdown alignRight>

                <Dropdown.Toggle variant="success" id="dropdown-basic">

                    <AiOutlineShoppingCart/>  {cart.length}

                </Dropdown.Toggle>

                <Dropdown.Menu style={{ minWidth: 370}}>

                    {cart.length > 0 ? (

                        <>

                        {

                            cart.map((prod)=>(

                                <span className="cartitem" key={prod.id}>

                                <img

                                src={prod.image}

                                className="cartItemImg"

                                alt={prod.name}

                                />

                                <div classNmae="cartItemDetail">

                                    <span>{prod.name}</span>

                                    <span>Rs {prod.price.split(".")[0]}</span>

                                </div>

                                <AiFillDelete

                                onClick={() => {

                                    dispatch({

                                        type: 'REMOVE\_FROM\_CART',

                                        payload: prod

                                    })

                                }}

                                variant="danger"></AiFillDelete>

                                </span>

                            ))

                        }

                        </>

                    ) : (

                        <Dropdown.Item href="#/action-3">Nothing</Dropdown.Item>

                    )}

                </Dropdown.Menu>

                </Dropdown>

            </Container>

        </Navbar>

    )

}

export default Header

Styles.css

.cartitem{

    display: flex;

    justify-content: space-between;

    align-items: center;

    margin: 0 20px;

    margin-bottom: 20px;

}

.cartItemImg{

    border-radius: 50%;

    width: 50px;

    height: 50px;

    object-fit: cover;

}

.cartItemDetail{

    display: flex;

    flex: 1;

    padding: 0 20px;

    flex-direction: column;

}

## GO TO CART BUTTON

Header.js

 <AiFillDelete

                                onClick={() => {

                                    dispatch({

                                        type: 'REMOVE\_FROM\_CART',

                                        payload: prod

                                    })

                                }}

                                variant="danger"></AiFillDelete>

                                </span>

                            ))

                        }

                        <Link to="/cart">

                        <Button style={{width: "95%",margin: "0 10px"}}>

                            Go To Cart

                        </Button>

                        </Link>

# CART PAGE

Cart.js

import React,{useEffect,useState} from 'react'

import { Button, ListGroup } from 'react-bootstrap';

import { CartState } from "../context/Context";

const Cart = () => {

    const {

        state: {cart},

        dispatch,

    } = CartState()

    const [total, setTotal] = useState();

    useEffect(() => {

        setTotal(cart.reduce((acc,curr) => acc + Number(curr.price)\*curr.qty,0));

    }, [cart]);

    return (

        <div className="home">

           <div className="productContainer">

            <ListGroup>

                {

                    cart.map(prod => (

                        <span>{prod.name}</span>

                    ))

                }

            </ListGroup>

           </div>

           <div className="filters summary">

                <span className="title">Sub Total: {cart.length} items</span>

                <span style={{fontWeight: 700, fontSize: 20}}>Total: Rs {total}</span>

                <Button type="button" disabled={cart.lenth === 0}>

                    Proceed to Checkout

                </Button>

           </div>

        </div>

    )

}

export default Cart

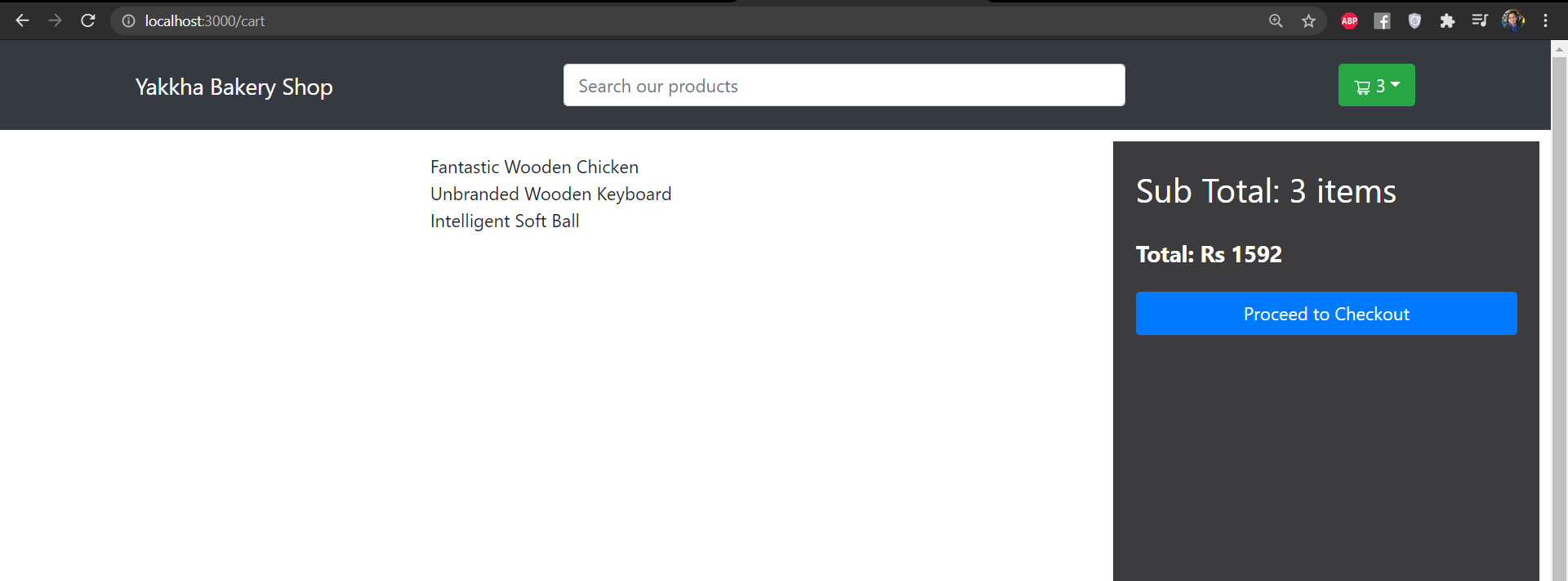
Styles.css

.summary{

    width: 30%;

}

SS:



## CREATING BETTER VIEW FOR PRODUCTS IN CART

import React,{useEffect,useState} from 'react'

import { Image,Button, Col, Form, ListGroup, Row } from 'react-bootstrap';

import { CartState } from "../context/Context";

import Rating from './Rating';

import {AiFillDelete} from "react-icons/ai"

const Cart = () => {

    const {

        state: {cart},

        dispatch,

    } = CartState()

    const [total, setTotal] = useState();

    useEffect(() => {

        setTotal(cart.reduce((acc,curr) => acc + Number(curr.price)\*curr.qty,0));

    }, [cart]);

    return (

        <div className="home">

           <div className="productContainer">

            <ListGroup>

                {

                    cart.map(prod => (

                        <ListGroup.Item key={prod.id}>

                            <Row>

                                <Col md={2}>

                                    <Image src={prod.image} alt={prod.name} fluid rounded />

                                </Col>

                                <Col md={2}>

                                    <span>{prod.name}</span>

                                </Col>

                                <Col md={2}>

                                    <span>Rs {prod.price}</span>

                                </Col>

                                <Col md={2}>

                                    <Rating rating={prod.ratings}/>

                                </Col>

                                <Col md={2}>

                                    <Form.Control as="select" value={prod.qty}>

                                        {

                                            [...Array(prod.inStock).keys()].map((x) =>(

                                                <option key={x+1}>{x+1}</option>

                                            ))

                                        }

                                    </Form.Control>

                                </Col>

                                <Col md={2}>

                                    <Button

                                    type="button"

                                    variant="light"

                                    onClick={() => {

                                        dispatch({

                                            type: 'REMOVE\_FROM\_CART',

                                            payload: prod

                                        })

                                    }}

                                    >

                                        <AiFillDelete fontSize="20px"/>

                                    </Button>

                                </Col>

                            </Row>

                        </ListGroup.Item>

                    ))

                }

            </ListGroup>

           </div>

           <div className="filters summary">

                <span className="title">Sub Total: {cart.length} items</span>

                <span style={{fontWeight: 700, fontSize: 20}}>Total: Rs {total}</span>

                <Button type="button" disabled={cart.lenth === 0}>

                    Proceed to Checkout

                </Button>

           </div>

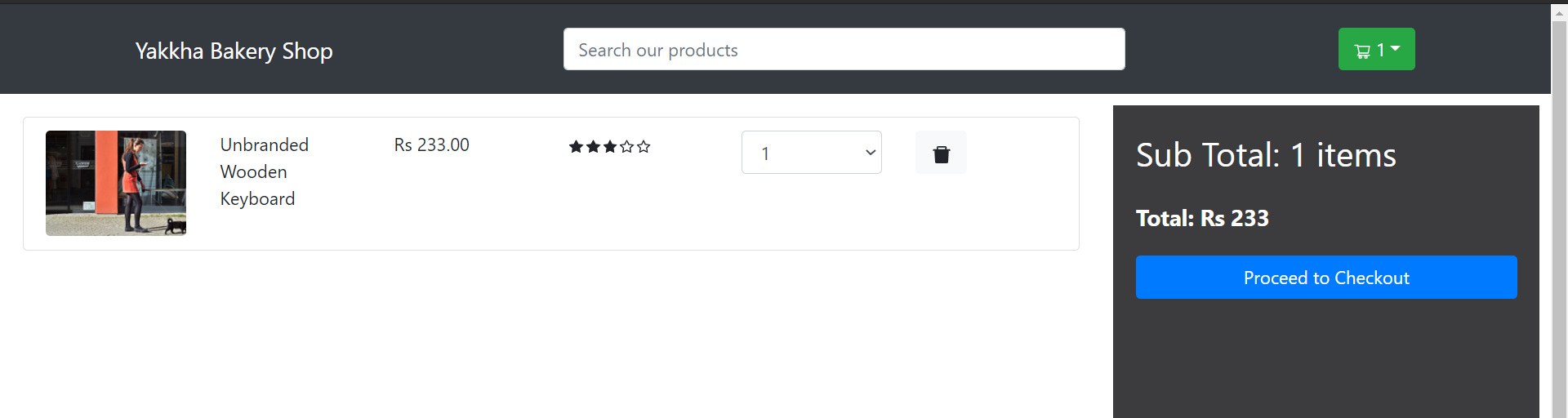
        </div>

    )

}

export default Cart

SS:



# CHANGE CART QUANTITY FUNCTIONALITY

## Add action type in reducer.js

case "CHANGE\_CART\_QTY":

            return {

                ...state,

                cart: state.cart.filter((c) =>

                c.id === action.payload.id ? (c.qty= action.payload.qty) : c.qty

                ),

            }

Cart.js

   <Col md={2}>

                                    <Form.Control

                                     as="select"

                                     value={prod.qty}

                                     onChange={(e) =>

                                     dispatch({

                                         type:"CHANGE\_CART\_QTY",

                                         payload: {

                                             id:prod.id,

                                             qty: e.target.value,

                                         },

                                     })}

                                     >

                                        {

                                            [...Array(prod.inStock).keys()].map((x) =>(

                                                <option key={x+1}>{x+1}</option>

                                            ))

                                        }

                                    </Form.Control>

                                </Col>

# FILTERS IMPLEMENTATION

# Filters useReducer:

## CREATE USEREDUCER IN CONTEXT.JS

const [productState, productDispatch] = useReducer(productReducer, {

        byStock: false,

        byFastDelivery: false,

        byRating:0,

        searchQuery: "",

    })

        <Cart.Provider value={{state,dispatch,productState,productDispatch}}>

## CREATING productReducer IN Reducers.js

export const productReducer = (state,action) =>{}

## Import productReducer in Context.js

import { cartReducer,productReducer } from './Reducers';

## MANIPULATE STATE IN REDUCERS

export const productReducer = (state,action) =>{

    switch (action.type){

        case "SORT\_BY\_PRICE":

            return {...state,sort: action.payload};

        case "FILTER\_BY\_STOCK":

            return {...state,byStock: !state.byStock};

        case "FILTER\_BY\_DELIVERY":

            return {...state,byFastDelivery: !state.byFastDelivery};

        case "FILTER\_BY\_RATING":

            return {...state,byRating: action.payload};

        case "FILTER\_BY\_SEARCH":

            return {...state,searchQuery: action.payload};

        case 'CLEAR\_FILTER':

            return {

                byStock: false,

                byFastDelivery: false,

                byRating:0,

                searchQuery: "",

            };

        default:

            return state;

    }

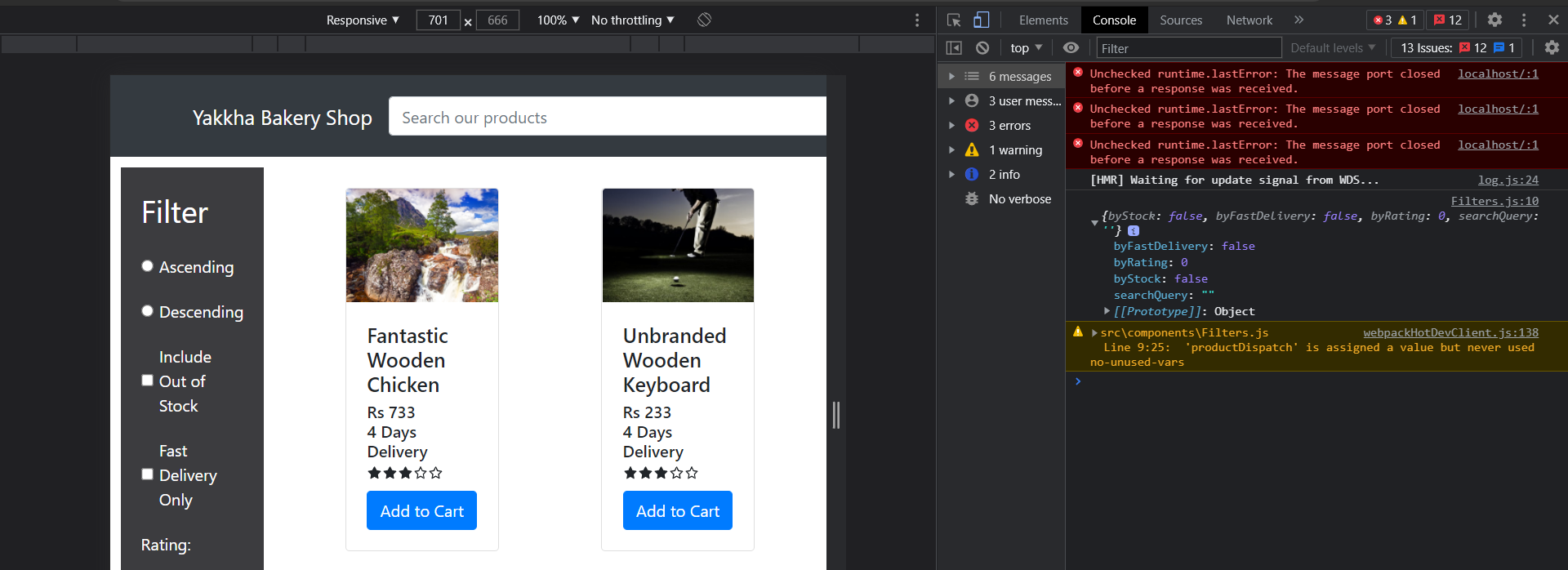
}

## NOW IMPLEMENTING ON OUR APP

Import CartState() in Filters.js

import {CartState} from ".../context/Context";

    const {productState,productDispatch} = CartState();



Filters.js

import React,{useState} from 'react'

import { Button,Form } from 'react-bootstrap'

import Rating from './Rating';

import {CartState} from "../context/Context";

const Filters = () => {

    const {

        productState:{byStock,byFastDelivery,sort,byRating},

        productDispatch,

    } = CartState();

    console.log(byStock,byFastDelivery,sort,byRating);

    return (

        <div className='filters'>

            <span className='title'>Filter</span>

            <span>

                <Form.Check

                 inline

                 label="Ascending"

                 name="group1"

                 type="radio"

                 id={`inline-1`}

                 onChange={() =>

                 productDispatch({

                     type: "SORT\_BY\_PRICE",

                     payload: "lowToHigh",

                 })}

                 checked={sort === "lowToHigh" ? true: false}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Descending"

                 name="group1"

                 type="radio"

                 id={`inline-2`}

                 onChange={() =>

                 productDispatch({

                     type: "SORT\_BY\_PRICE",

                     payload: "highToLow",

                 })}

                 checked={sort === "highToLow" ? true: false}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Include Out of Stock"

                 name="group1"

                 type="checkbox"

                 id={`inline-3`}

                 onChange={() =>

                 productDispatch({

                     type: "FILTER\_BY\_STOCK",

                 })}

                 checked={byStock}

                 />

            </span>

            <span>

                <Form.Check

                 inline

                 label="Fast Delivery Only"

                 name="group1"

                 type="checkbox"

                 id={`inline-4`}

                 onChange={() =>

                 productDispatch({

                     type: "FILTER\_BY\_DELIVERY",

                 })}

                 checked={byFastDelivery}

                 />

            </span>

            <span>

                <label style={{paddingRight: 10}}>Rating:</label>

                <Rating

                rating={byRating}

                onClick = {(i) =>

                productDispatch({

                    type:"FILTER\_BY\_RATING",

                    payload: i+1,

                })

                }

                style={{cursor: "pointed"}} />

            </span>

            <Button

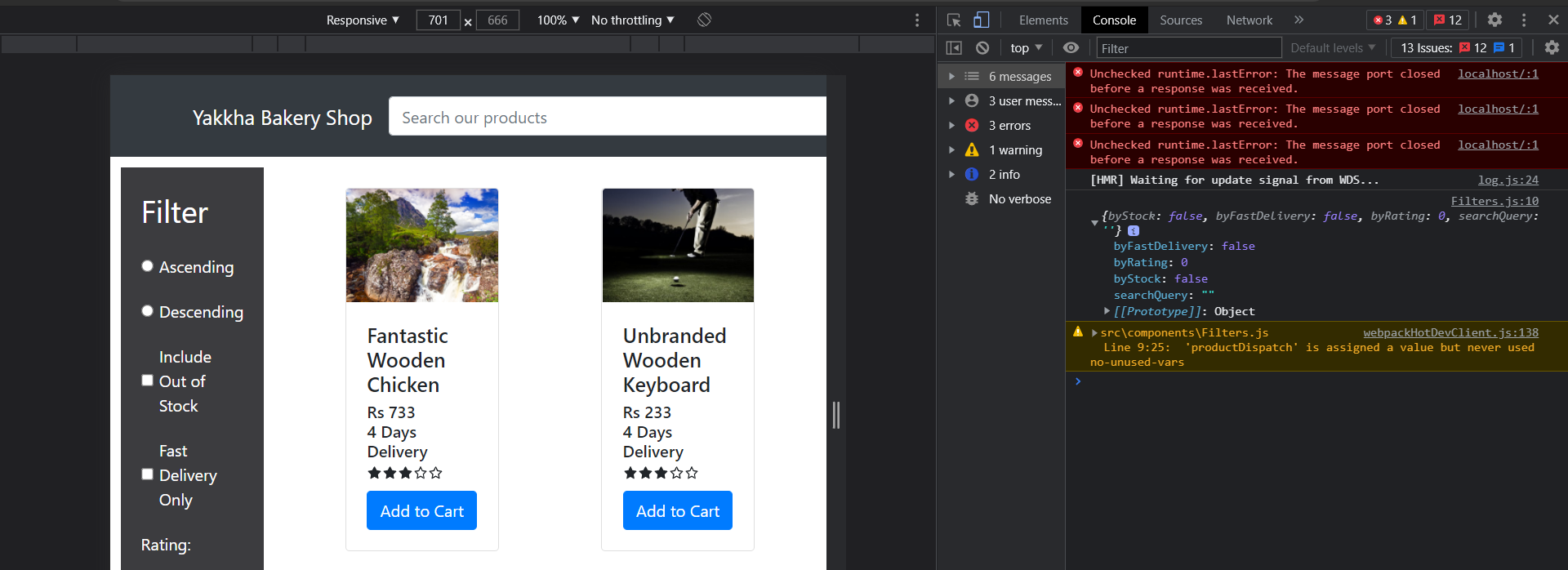
variant="light">Clear</Button>

        </div>

    )

}

export default Filters

SS:  


ADD CLEAR FILTER:

<Button

             variant="light"

             onClick={()=>

                productDispatch({

                    type: "CLEAR\_FILTER",

                })

             }

            >Clear</Button>

## NOW SEARCH BUTTON OF HEADER.JS

Header.js

import React from 'react'

import { Container,FormControl,Navbar,Dropdown,Button } from 'react-bootstrap'

import {Link} from "react-router-dom";

import {AiOutlineShoppingCart,AiFillDelete} from "react-icons/ai"

import { CartState } from '../context/Context';

const Header = () => {

    const {

        state: {cart},

        dispatch,

        productDispatch,

    } = CartState()

    return (

        <Navbar bg='dark' variant='dark'

        style={{height:80}}>

            <Container>

                <Navbar.Brand>

                    <Link to="/">Yakkha Bakery Shop</Link>

                </Navbar.Brand>

                <Navbar.Text className='search'>

                    <FormControl

                        style={{width:500}}

                        placeholder='Search our products'

                        className='m-auto'

                        onChange={(e) =>{

                            productDispatch({

                                type:"FILTER\_BY\_SEARCH",

                                payload: e.target.value,

                            });

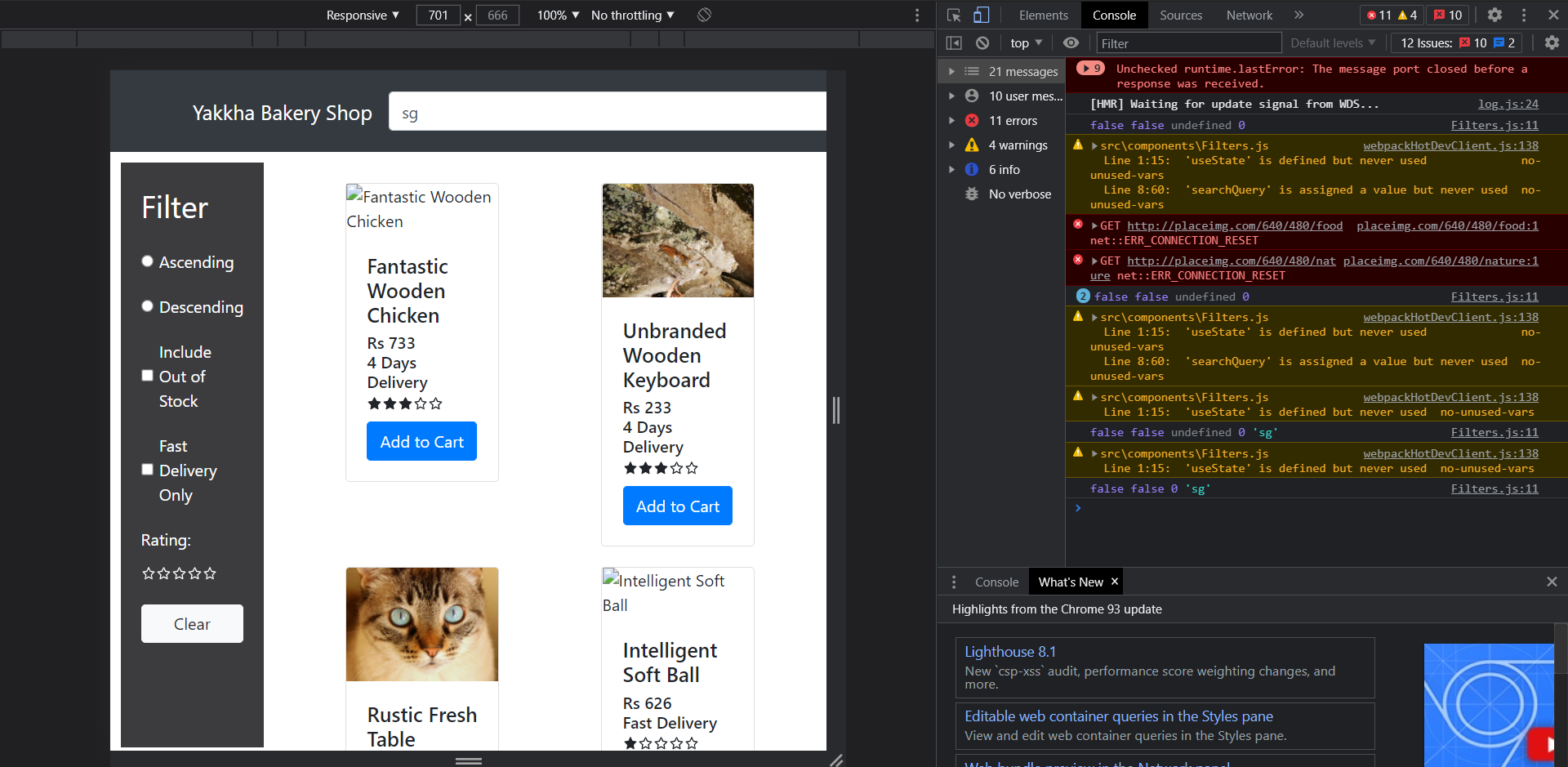
                        }}

                    />

                </Navbar.Text>

Filters.js

        productState:{byStock,byFastDelivery,sort,byRating,searchQuery},



# TRANSFORM PRODUCTS LOGIC

## First bring all product state from context api

Home.js

const {

        state : {products},

        productState:{byStock,byFastDelivery,sort,byRating,searchQuery,},

    } = CartState();

## Logical Function to render products according to filters

//logical function to render products according filter

    const transformProducts = () => {

        let sortedProducts = products;

        //checking if there is sthg in sort like any highTolow like these and we will manipulate sortedProducts

        if(sort){

            sortedProducts = sortedProducts.sort((a,b) =>(

                sort==='lowToHigh'?a.price-b.price:b.price-a.price

            ));

        }

        return sortedProducts

    }

## Return method of Home.js

return (

        <div className='home'>

            <Filters/>

            <div className='productContainer'>

                {transformProducts().map((prod,idx) => {

                    return <SingleProduct prod={prod} key={idx} />

                })}

            </div>

        </div>

    )

## Displaying those which are out of stock in home.js

if(!byStock){

            sortedProducts = sortedProducts.filter((prod) => prod.inStock);

        }

## Displaying those which are fast delivery in home.js

if(byFastDelivery){

            sortedProducts = sortedProducts.filter((prod) => prod.byFastDelivery);

        }

## Displaying according to rating filters

 if(byRating){

            sortedProducts = sortedProducts.filter(

                (prod) => prod.ratings >=byRating

                );

        }

## Searching

    if(searchQuery){

            sortedProducts = sortedProducts.filter(

                (prod) => prod.name.toLowerCase().includes(searchQuery)

                );

        }

# MOBILE RESPONSIVE STYLES

Styles.css

@media (max-width: 771px){

}