	Course Name: Advanced Web Technology	EXPERIMENT NO. 5	
	Course Code: 20CP314P Faculty: Komal Singh	Branch: CSE	Semester: VI
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Objective: Create your first React code

Experiment 5:

Q1 Create a “hello world” react app.

```
vrajpatel@192 p5_hello_world % npx create-react-app furniture-app
Creating a new React app in /Users/vrajpatel/Desktop/pdeu/sem 6/LAB/AWT/Practicals/p5_hello_world/furniture-app.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1494 packages in 2m
vrajpatel@192 furniture-app % npm install react-router-dom

added 3 packages, and audited 1565 packages in 2s

262 packages are looking for funding
  run `npm fund` for details

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
Compiled successfully!

You can now view furniture-app in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.6:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```



Q2 Create a multiple web page application having a navigation bar using react components having pages such as home, products and customer review.

Steps

1. Create react app

```
[vrajpatel@192 p6_10 % npx create-react-app commercial-furniture-app]
[vrajpatel@192 commercial-furniture-app % npm install react-router-dom]

added 3 packages, and audited 1565 packages in 2s

262 packages are looking for funding
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To address all issues (including breaking changes), run:
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Run `npm audit` for details.
```

2. Remove files that are not required

3. Create Files [Home.js , Products.js , Customer.js]

```
Home.js
// src/pages/Home.js
import React from 'react';
import './PageStyles.css';

function Home() {
```

```
return (  
  <div className="container home-container">  
    <h1>Welcome to Our Furniture Store</h1>  
    <p>Explore our wide range of luxury furniture. Enhance your home with our stylish  
and high-quality pieces.</p>  
    <div className="features">  
      <div className="feature">  
        <h2>High Quality</h2>  
        <p>Each piece is crafted with the finest materials to offer you a lasting  
investment.</p>  
      </div>  
      <div className="feature">  
        <h2>Eco-Friendly</h2>  
        <p>We use sustainable practices in every step of our production to protect our  
environment.</p>  
      </div>  
      <div className="feature">  
        <h2>Custom Designs</h2>  
        <p>Customize furniture to perfectly match your home's design and color  
scheme.</p>  
      </div>  
    </div>  
  </div>  
);  
}
```

export default Home;

Products.js

```
// src/pages/Products.js  
import React from 'react';  
import './PageStyles.css';  
import elegantSofa from '../images/elegant_sofa.jpg';  
import classicWoodenChair from '../images/classic_wooden_chair.jpg';  
import modernCoffeeTable from '../images/modern_coffee_table.jpg';  
import luxuryBed from '../images/luxury_bed.jpg';  
  
const products = [  
  {  
    id: 1,  
    name: "Elegant Sofa",  
    price: 499.99,  
    color: "Gray",  
    manufacturer: "Comfy Home",  
    imageUrl: elegantSofa  
  },  
  {  
    id: 2,  
    name: "Classic Wooden Chair",  
    price: 249.99,  
    color: "Brown",  
    manufacturer: "Wood Crafters",  
    imageUrl: classicWoodenChair  
  },  
  {  
    id: 3,  
    name: "Modern Coffee Table",
```

```
    price: 299.99,
    color: "Black",
    manufacturer: "Table Trends",
    imageUrl: modernCoffeeTable
  },
  {
    id: 4,
    name: "Luxury Bed",
    price: 899.99,
    color: "White",
    manufacturer: "Sleep Lux",
    imageUrl: luxuryBed
  }
];

function ProductCard({ product }) {
  return (
    <div className="product-card">
      <img src={product.imageUrl} alt={product.name} />
      <h3>{product.name}</h3>
      <p>${product.price}</p>
      <p>Color: {product.color}</p>
      <p>Manufacturer: {product.manufacturer}</p>
    </div>
  );
}

function Products() {
  return (
    <div className="container">
      <h1>Our Products</h1>
      <div className="product-grid">
        {products.map(product => {
          <ProductCard key={product.id} product={product} />
        })}
      </div>
    </div>
  );
}
```

export default Products;

Customer.js

```
// src/pages/CustomerReview.js
import React from 'react';
import './PageStyles.css';

function CustomerReview() {
  return (
    <div className="container review-container">
      <h1>Customer Reviews</h1>
      <p>Share your experience with us!</p>
      <form className="review-form">
        <label>Name</label>
        <input type="text" placeholder="Enter your name" />
        <label>Rating</label>
        <select>
```

```
        <option value="5">5</option>
        <option value="4">4</option>
        <option value="3">3</option>
        <option value="2">2</option>
        <option value="1">1</option>
      </select>
      <label>Feedback</label>
      <textarea placeholder="Describe your experience"></textarea>
      <button type="submit">Submit Review</button>
    </form>
    <div className="testimonials">
      <h2>What Our Customers Say</h2>
      <blockquote>"Absolutely love the new coffee table. Fits perfectly in our living
room!"</blockquote>
      <blockquote>"Excellent customer service and quick delivery. Highly
recommend!"</blockquote>
    </div>
  </div>
);
}
```

```
export default CustomerReview;
```

4. Update the App.js files with import

```
// src/App.js
import React from "react";
import { BrowserRouter as Router, Routes, Route, Link } from "react-router-dom";
import Home from './pages/Home';
import Products from './pages/Products';
import CustomerReview from './pages/CustomerReview';
import './App.css';
```

```
function App() {
  return (
    <Router>
      <nav>
        <ul>
          <li><Link to="/">Home</Link></li>
          <li><Link to="/products">Products</Link></li>
          <li><Link to="/customer-review">Customer Review</Link></li>
        </ul>
      </nav>
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/products" element={<Products />} />
        <Route path="/customer-review" element={<CustomerReview />} />
      </Routes>
    </Router>
  );
}
```

```
export default App;
```

[Home](#) [Products](#) [Customer Review](#)

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Eco-Friendly


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Custom Designs


Customize furniture to perfectly match your home's design and color scheme.

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Our Products




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Modern Coffee Table
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Color: Black
Manufacturer: Table Trends



Luxury Bed
\$899.99
Color: White
Manufacturer: Sleep Lux

[Home](#) [Products](#) [Customer Review](#)

Customer Reviews

Share your experience with us!

Name

Rating

Feedback

[Submit Review](#)

"Absolutely love the new coffee table. Fits perfectly in our living room!"

"Excellent customer service and quick delivery. Highly recommend!"