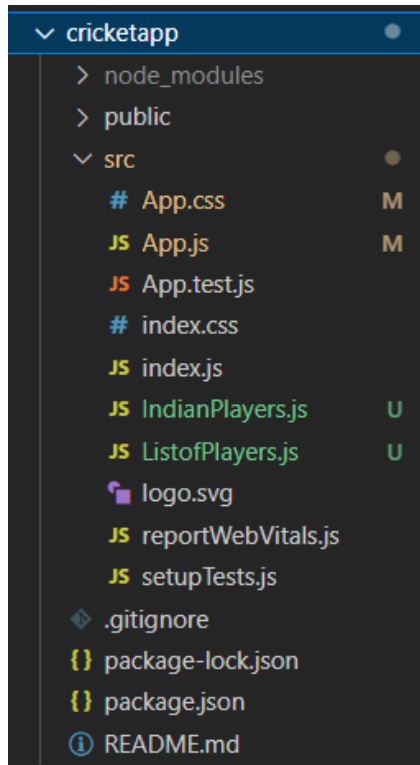# React

Hands on 9 :

App.css :

```css
.App {
  text-align: center;
}

.App {
  font-family: sans-serif;
  padding: 20px;
  background-color: #f9f9f9;
}
```

```css
h2 {
  color: #1e88e5;
}
```

```css
ul {
  list-style-type: none;
  padding-left: 0;
}
```

```css
li {
  padding: 4px 0;
  border-bottom: 1px solid #ccc;
}
```

```css
.App-logo {
  height: 40vmin;
  pointer-events: none;
}
```

```css
@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
```

```css
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }

  to {
    transform: rotate(360deg);
  }
}
```

App.js :

```jsx
import './App.css';
import IndianPlayers from './IndianPlayers';
import ListofPlayers from './ListofPlayers';

function App() {
  const flag = true; // Change to false to see IndianPlayers

  return (
    <div className="App">
      <h1>🏏 Welcome to Cricket App</h1>
      {flag ? <ListofPlayers /> : <IndianPlayers />}
    </div>
  );
}

export default App;
```

IndianPlayers.js :

```jsx
const IndianPlayers = () => {
    const team = ['Virat', 'Rohit', 'Rahul', 'Jadeja', 'Shami', 'Bumrah'];

    // Destructuring Odd and Even players (manually splitting by index)
    const oddTeam = team.filter((_, index) => index % 2 !== 0);
    const evenTeam = team.filter((_, index) => index % 2 === 0);

    const T20players = ['Surya', 'Ishan', 'Ruturaj'];
    const RanjiTrophyPlayers = ['Pujara', 'Rahane', 'Shaw'];

    // Merge using spread operator
    const allPlayers = [...T20players, ...RanjiTrophyPlayers];

    return (
        <div>
```

```jsx
        <h2>Odd Team Players</h2>
        <ul>
            {oddTeam.map((player, index) => (
                <li key={index}>{player}</li>
            ))}
        </ul>


        <h2>Even Team Players</h2>
        <ul>
            {evenTeam.map((player, index) => (
                <li key={index}>{player}</li>
            ))}
        </ul>


        <h2>All Merged Players (T20 + Ranji Trophy)</h2>
        <ul>
            {allPlayers.map((player, index) => (
                <li key={index}>{player}</li>
            ))}
        </ul>
    </div>
    );
};


export default IndianPlayers;
```

ListofPlayers.js :

```jsx
const ListofPlayers = () => {
    const players = [
        { name: 'Virat Kohli', score: 82 },
        { name: 'Rohit Sharma', score: 76 },
        { name: 'Shubman Gill', score: 45 },
        { name: 'KL Rahul', score: 90 },
        { name: 'Hardik Pandya', score: 35 },
        { name: 'Ravindra Jadeja', score: 71 },
        { name: 'Shreyas Iyer', score: 64 },
        { name: 'R Ashwin', score: 58 },
        { name: 'Jasprit Bumrah', score: 30 },
        { name: 'Mohammed Shami', score: 22 },
        { name: 'Kuldeep Yadav', score: 50 }
    ];


    // Filter players with score below 70 using arrow function
    const filteredPlayers = players.filter(player => player.score < 70);


    return (
        <div>
            <h2>All Players</h2>
            <ul>
                {players.map((player, index) => (
                    <li key={index}>
                        {player.name} - Score: {player.score}
                    </li>
                ))}
            </ul>


            <h2>Players with Score Below 70</h2>
            <ul>
                {filteredPlayers.map((player, index) => (
                    <li key={index}>
                        {player.name} - Score: {player.score}
                    </li>
                ))}
            </ul>
        </div>
    );
```
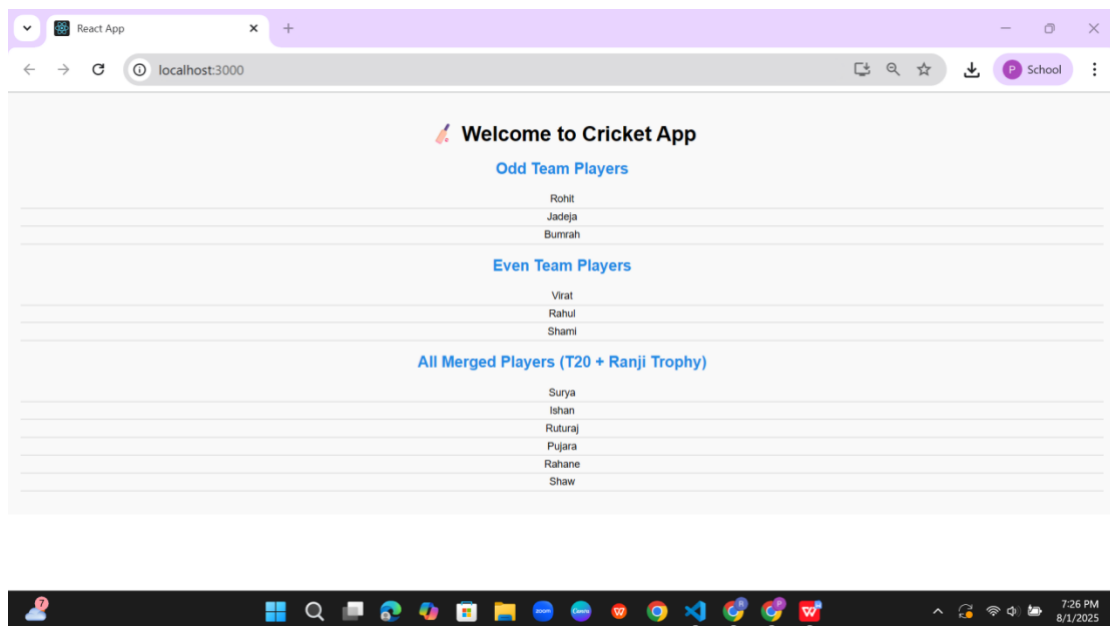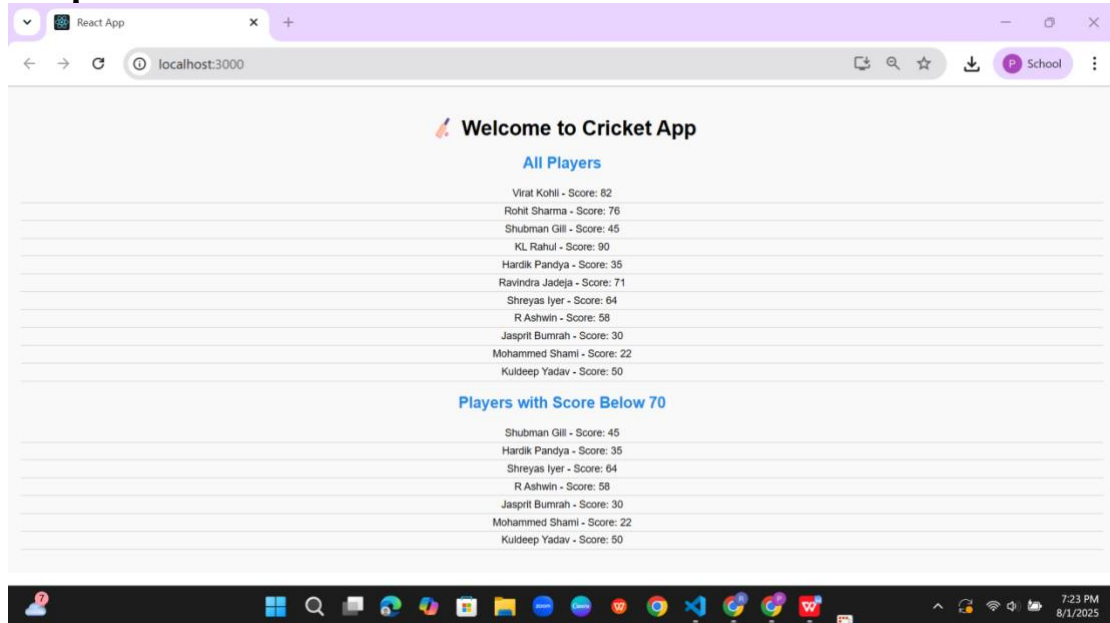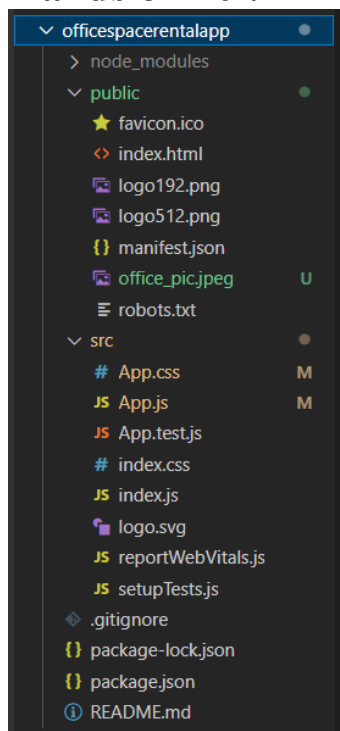
```
};
```

```
export default ListofPlayers;
```

Output :

Hands on 10 :

App.css :

```css
.App {
  text-align: center;
}

.App-logo {
  height: 40vmin;
  pointer-events: none;
}
```

```css
.App {
  font-family: Arial, sans-serif;
  padding: 20px;
  background-color: #f3f6f9;
  color: #333;
}
```

```css
h1,
h2 {
  color: #1a73e8;
}
```

```css
p {
  margin: 4px 0;
}
```

```css
@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}
```

```css
.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
}
```

```css
    color: white;
}
```

```css
.App-link {
  color: #61dafb;
}
```

```css
@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
```

```css
  to {
    transform: rotate(360deg);
  }
}
```

App.js :

```jsx
import './App.css';

function App() {
  const heading = <h1>🏢 Office Space Rental</h1>;
```

```jsx
  const office = {
    name: "CoWork Studio",
    rent: 55000,
    address: "3rd Floor, Phoenix Towers, Hyderabad"
  };
```

```jsx
  const officeList = [
    {
      name: "Startup Hub",
      rent: 45000,
      address: "1st Floor, Tech City, Bangalore"
    },
    {
      name: "Elite WorkZone",
      rent: 72000,
      address: "4th Floor, Hitech Park, Pune"
    },
    {
      name: "BizNest",
      rent: 61000,
      address: "6th Floor, IT Towers, Noida"
    },
    {
      name: "WorkNest",
      rent: 39000,
      address: "2nd Floor, Infocity, Chennai"
    }
  ];
```

```jsx
  return (
    <div className="App">
      {heading}
      {/* Correct image path */}
      <img src="/office_pic.jpeg" alt="Office Space" style={{ width: '400px', height: '200px' }} />
```

```jsx
      <h2>Featured Office</h2>
      <p><strong>Name:</strong> {office.name}</p>
      <p><strong>Rent:</strong> ₹{office.rent}</p>
      <p><strong>Address:</strong> {office.address}</p>
```

```jsx
      <h2>Other Available Spaces</h2>
      {officeList.map((item, index) => (
        <div key={index} style={{ marginBottom: '20px' }}>
          <p><strong>Name:</strong> {item.name}</p>
          <p>
```

```
        <strong>Rent:</strong>{' '}
        <span style={{ color: item.rent < 60000 ? 'red' : 'green' }}>
          ₹{item.rent}
        </span>
      </p>
      <p><strong>Address:</strong> {item.address}</p>
    </div>
  ))}
  </div>
  );
}
```
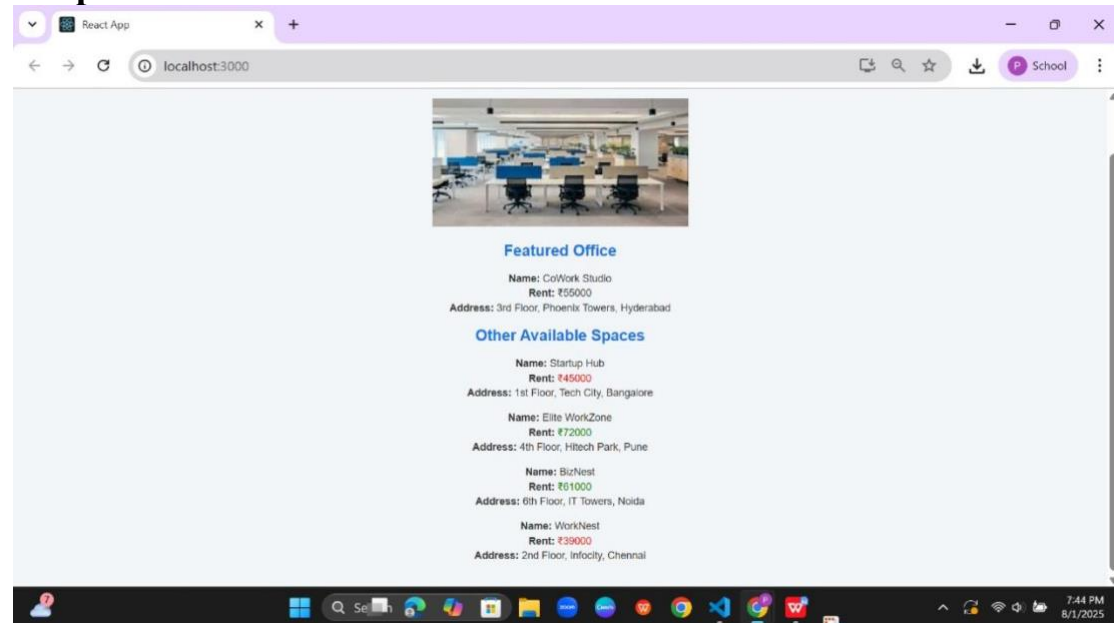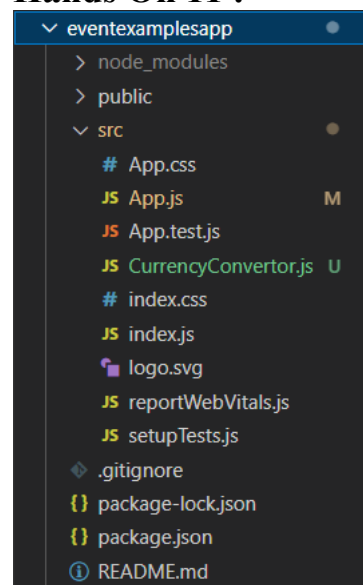
```
export default App;
```

Output :

Hands On 11 :

App.js :

```
import { Component } from 'react';
import './App.css';
import CurrencyConvertor from './CurrencyConvertor';
```

```jsx
class App extends Component {
  constructor(props) {
    super(props);
    this.state = {
      count: 0
    };

    // Binding methods
    this.increment = this.increment.bind(this);
    this.sayHello = this.sayHello.bind(this);
    this.handleIncreaseClick = this.handleIncreaseClick.bind(this);
    this.decrement = this.decrement.bind(this);
    this.sayWelcome = this.sayWelcome.bind(this);
    this.handleSyntheticClick = this.handleSyntheticClick.bind(this);
  }

  increment() {
    this.setState(prevState => ({
      count: prevState.count + 1
    }));
  }

  sayHello() {
    alert("Hello! Incremented Successfully");
  }

  handleIncreaseClick() {
    this.increment();      // increment logic
    this.sayHello();       // show alert message
  }

  decrement() {
    this.setState(prevState => ({
      count: prevState.count - 1
    }));
  }

  sayWelcome(message) {
    alert(message);
  }

  handleSyntheticClick(event) {
    alert("I was clicked");
    console.log("Synthetic Event:", event);
  }

  render() {
    return (
      <div className="App">
        <h1>React Event Handling</h1>
        <h2>Counter: {this.state.count}</h2>

        <button onClick={this.handleIncreaseClick}>Increment</button>{' '}
        <button onClick={this.decrement}>Decrement</button>

        <br /><br />

        <button onClick={() => this.sayWelcome("Welcome")}>Say Welcome</button>{' '}
        <button onClick={this.handleSyntheticClick}>Synthetic Click</button>

        <CurrencyConvertor />
      </div>
    );
  }
}

export default App;
```

CurrencyConvertor.js :

```javascript
import { Component } from 'react';

class CurrencyConvertor extends Component {
    constructor(props) {
        super(props);
        this.state = {
            rupees: '',
            euros: ''
        };
```

```javascript
        this.handleChange = this.handleChange.bind(this);
        this.handleSubmit = this.handleSubmit.bind(this);
    }
```

```javascript
    handleChange(e) {
        this.setState({ rupees: e.target.value });
    }
```
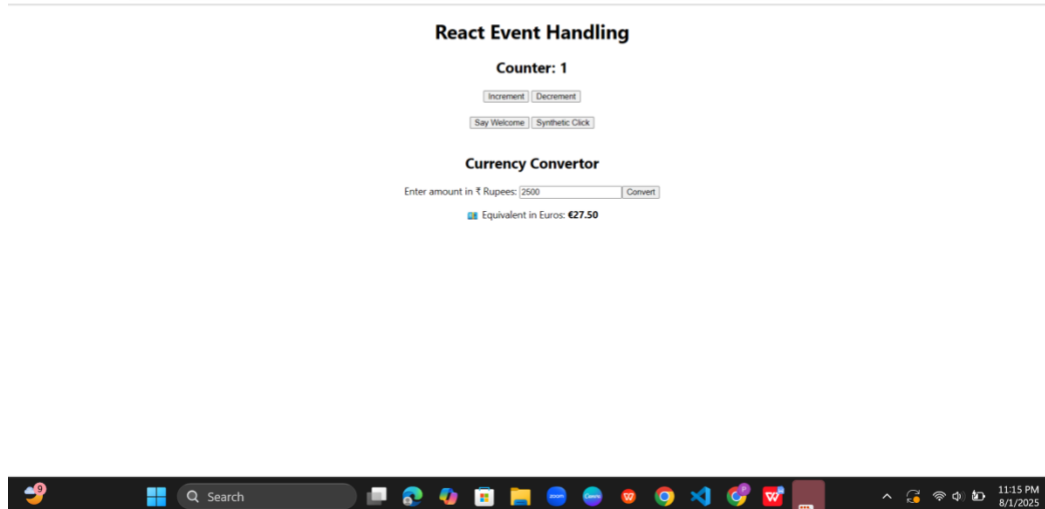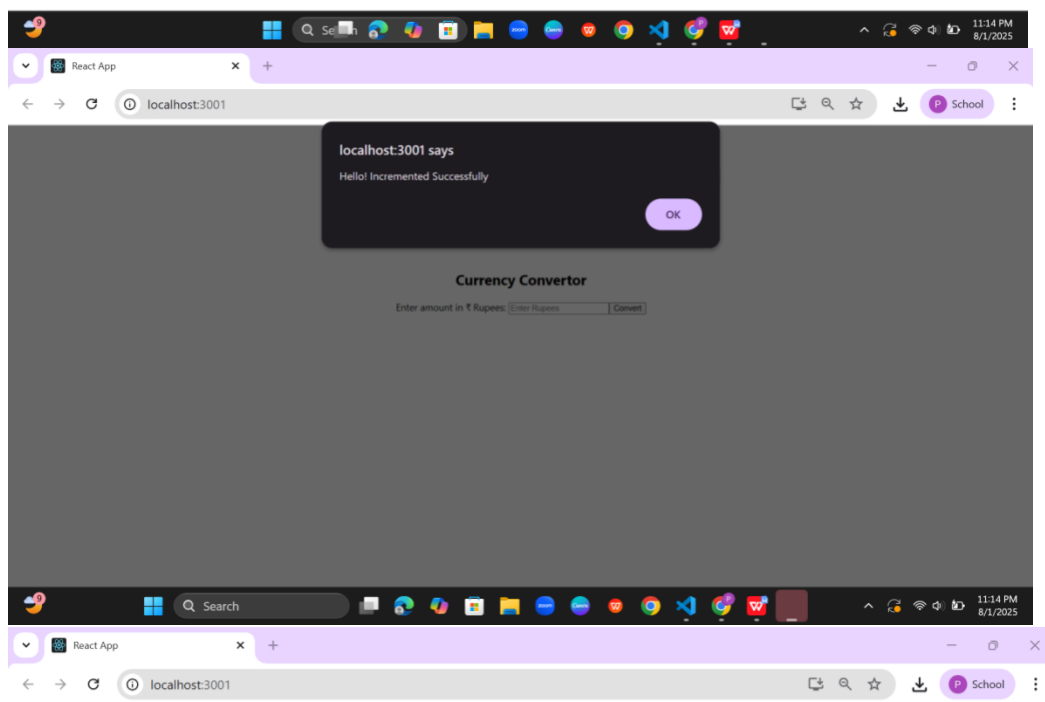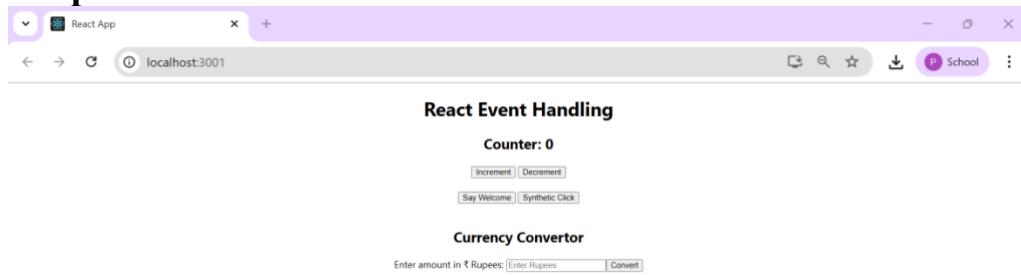
```javascript
    handleSubmit(e) {
        e.preventDefault();
        const rupees = parseFloat(this.state.rupees);
        if (!isNaN(rupees)) {
            const euroRate = 0.011;
            const euros = (rupees * euroRate).toFixed(2);
            this.setState({ euros });
        } else {
            alert("Please enter a valid amount");
        }
    }
```

```javascript
    render() {
        return (
            <div style={{ marginTop: '40px' }}>
                <h2>Currency Convertor</h2>
                <form onSubmit={this.handleSubmit}>
                    <label>Enter amount in ₹ Rupees: </label>
                    <input
                        type="number"
                        value={this.state.rupees}
                        onChange={this.handleChange}
                        placeholder="Enter Rupees"
                    />
                    <button type="submit">Convert</button>
                </form>
                {this.state.euros && (
                    <p>🇪🇺 Equivalent in Euros: <strong>€{this.state.euros}</strong></p>
                )}
            </div>
        );
    }
}
```
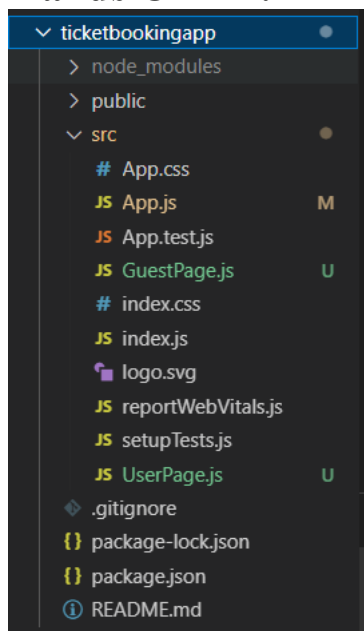
```javascript
export default CurrencyConvertor;
```

Hands On 12 :

GuestPage.js :

```js
const GuestPage = () => {
    return (
        <div>
            <h2>Welcome Guest</h2>
            <p>🛫 Browse available flights below:</p>
            <ul>
                <li>Flight A - Delhi to Mumbai</li>
                <li>Flight B - Hyderabad to Bangalore</li>
                <li>Flight C - Chennai to Pune</li>
            </ul>
        </div>
    );
};
```

```js
export default GuestPage;
```

UserPage.js :

```js
const UserPage = () => {
    return (
        <div>
            <h2>Welcome User</h2>
            <p>📧 You can now book your flight tickets!</p>
            <form>
                <label>Flight Name: </label>
                <input type="text" placeholder="Enter flight name" /><br /><br />
                <label>Passenger Name: </label>
                <input type="text" placeholder="Enter name" /><br /><br />
                <button type="submit">Book Ticket</button>
            </form>
        </div>
    );
};
```

```js
export default UserPage;
```

App.js :

```jsx
import { Component } from 'react';
import './App.css';
import GuestPage from './GuestPage';
import UserPage from './UserPage';

class App extends Component {
  constructor(props) {
    super(props);
    this.state = {
      isLoggedIn: false
    };

    this.handleLogin = this.handleLogin.bind(this);
    this.handleLogout = this.handleLogout.bind(this);
  }

  handleLogin() {
    this.setState({ isLoggedIn: true });
  }

  handleLogout() {
    this.setState({ isLoggedIn: false });
  }

  render() {
    const { isLoggedIn } = this.state;

    let page;
    if (isLoggedIn) {
      page = <UserPage />;
    } else {
      page = <GuestPage />;
    }

    return (
      <div className="App">
        <h1>🛫 Ticket Booking App</h1>
        {isLoggedIn ? (
          <button onClick={this.handleLogout}>Logout</button>
        ) : (
          <button onClick={this.handleLogin}>Login</button>
        )}
        <hr />
        {page}
      </div>
    );
  }
}

export default App;
```
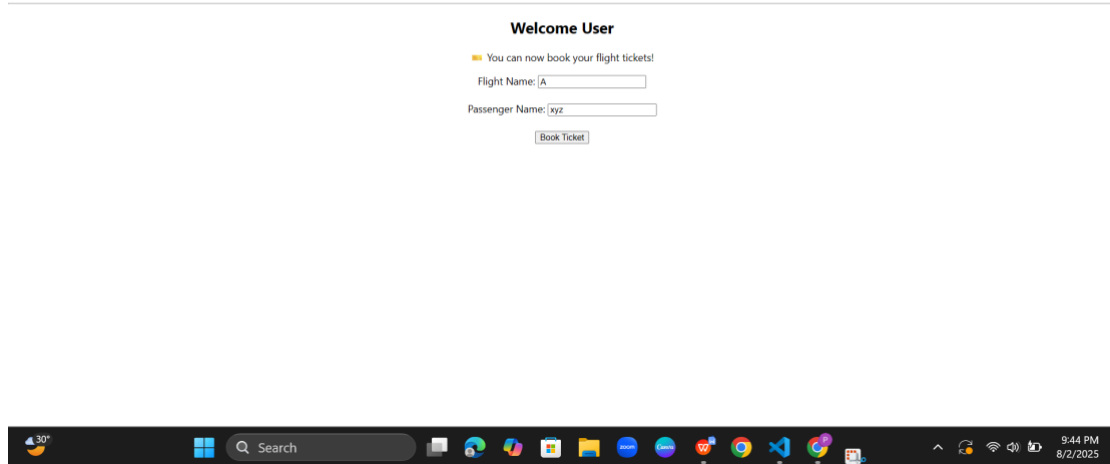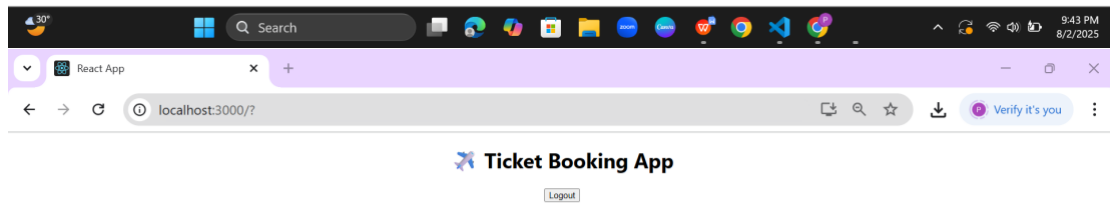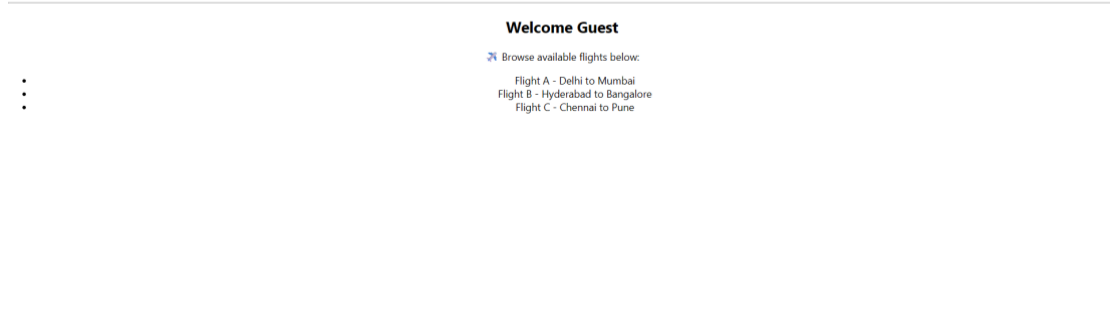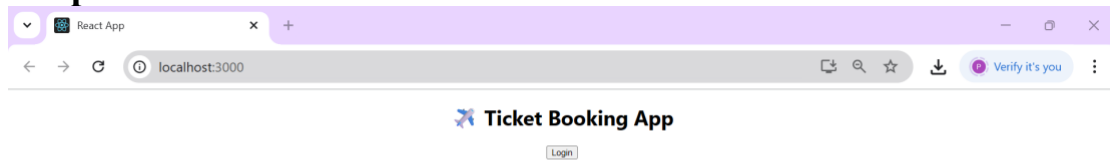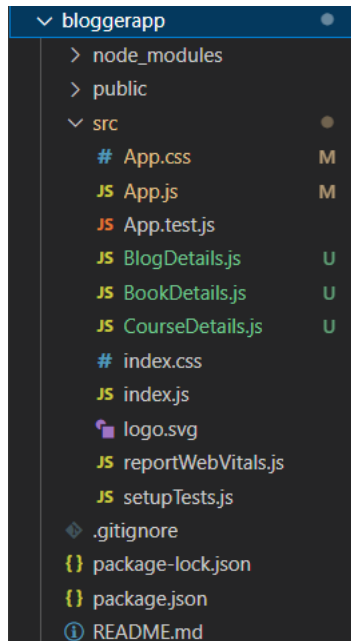
Hands On 13 :

BookDetails.js :

```
const BookDetails = () => {
    const show = true;

    if (!show) return null;

    const books = [
        { id: 1, title: "React in Action", author: "Mark T." },
        { id: 2, title: "Learning React", author: "Alex B." }
    ];

    return (
        <div className="section">
            <h2>📖 Book Details</h2>
            <ul>
                {books.map(book => (
                    <li key={book.id}>
                        <strong>{book.title}</strong> by {book.author}
                    </li>
                ))}
            </ul>
        </div>
    );
};

export default BookDetails;
```

BlogDetails.js :

```
const BlogDetails = () => {
    const show = true;

    const blogs = [
```

```
        { id: 1, title: "Understanding JSX" },
        { id: 2, title: "React Hooks Deep Dive" }
    ];
```

```
    return show ? (
        <div className="section">
            <h2>📝 Blog Details</h2>
            <ul>
                {blogs.map(blog => (
                    <li key={blog.id}>{blog.title}</li>
                ))}
            </ul>
        </div>
    ) : null;
};
```

```
export default BlogDetails;
```

CourseDetails.js :

```
const CourseDetails = () => {
    const show = true;
```

```
    const courses = ["React Basics", "Advanced React"];
```

```
    return (
        <>
            {show && (
                <div className="section">
                    <h2>🎓 Course Details</h2>
                    <ul>
                        {courses.map((course, index) => (
                            <li key={index}>{course}</li>
                        ))}
                    </ul>
                </div>
            )}
        </>
    );
};
```

```
export default CourseDetails;
```

App.js :

```
import './App.css';
import BlogDetails from './BlogDetails';
import BookDetails from './BookDetails';
import CourseDetails from './CourseDetails';

function App() {
  return (
    <div className="App">
      <h1>📑 Blogger App</h1>
      <BookDetails />
      <BlogDetails />
      <CourseDetails />
    </div>
  );
}
```

```
export default App;
```

App.css :

```css
.App {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  padding: 40px;
  background-color: #f8f9fa;
  min-height: 100vh;
}

.App h1 {
  text-align: center;
  font-size: 32px;
  color: #2c3e50;
  margin-bottom: 40px;
}
```

```css
.section {
  background-color: #ffffff;
  padding: 20px 25px;
  margin: 25px auto;
  border-radius: 10px;
  max-width: 600px;
  box-shadow: 0 3px 8px rgba(0, 0, 0, 0.05);
}
```

```css
.section h2 {
  color: #34495e;
  border-bottom: 2px solid #3498db;
  padding-bottom: 8px;
  margin-bottom: 16px;
}
```

```css
.section ul {
  list-style: disc;
  padding-left: 25px;
  color: #2f2f2f;
}
```

```css
.section li {
  padding: 6px 0;
  font-size: 16px;
}
```

Output :