**WEEK 7**

**REACTJS-HOL**

**EX 9**

**To create a Cricket App**

npx create-react-app cricketapp

cd cricketapp

npm start

**src/ListofPlayers.js**

import React from 'react';

const ListofPlayers = () => {

const playerData = [

{ name: 'Sachin Tendulkar', score: 98 },

{ name: 'MS Dhoni', score: 85 },

{ name: 'Rahul Dravid', score: 60 },

{ name: 'VVS Laxman', score: 75 },

{ name: 'Gautam Gambhir', score: 45 },

{ name: 'Zaheer Khan', score: 30 },

{ name: 'Harbhajan Singh', score: 50 },

{ name: 'Ashish Nehra', score: 20 },

{ name: 'Sourav Ganguly', score: 80 },

{ name: 'Anil Kumble', score: 65 },

{ name: 'Virender Sehwag', score: 90 }

];

const lowScores = playerData.filter(player => player.score < 70);

return (

<div>

<h1>Player Statistics</h1>

<ul>

{playerData.map((player, index) => (

<li key={index}>Mr. {player.name}: <span>{player.score}</span></li>

))}

</ul>

<h1>Players with Scores Less than 70</h1>

<ul>

{lowScores.map((player, index) => (

<li key={index}>Mr. {player.name}: <span>{player.score}</span></li>

))}

</ul>

</div>

);

};

export default ListofPlayers;

**src/IndianPlayer.js**

import React from 'react';

const IndianPlayers = () => {

const squad = ['Rohit Sharma', 'Virat Kohli', 'Shikhar Dhawan', 'Ajinkya Rahane', 'Cheteshwar Pujara', 'Rishabh Pant', 'Jasprit Bumrah'];

const [first, , third, , fifth, , seventh] = squad; // Odd positions

const [, second, , fourth, , sixth] = squad; // Even positions

const T20Squad = ['KL Rahul', 'Suryakumar Yadav', 'Hardik Pandya'];

const TestSquad = ['Mayank Agarwal', 'Hanuma Vihari', 'Umesh Yadav'];

const mergedSquad = [...T20Squad, ...TestSquad];

return (

<div>

<h1>Indian Cricket Team</h1>

<h2>Odd Position Players</h2>

<ul>

<li>First: {first}</li>

<li>Third: {third}</li>

<li>Fifth: {fifth}</li>

<li>Seventh: {seventh}</li>

</ul>

<h2>Even Position Players</h2>

<ul>

<li>Second: {second}</li>

<li>Fourth: {fourth}</li>

<li>Sixth: {sixth}</li>

</ul>

<h2>Merged T20 and Test Squad</h2>

<ul>

{mergedSquad.map((player, index) => (

<li key={index}>{player}</li>

))}

</ul>

</div>

);

};

export default IndianPlayers;

**src/App.js**

import React, { useState } from 'react';

import ListofPlayers from './ListofPlayers';

import IndianPlayers from './IndianPlayers';

import './App.css';

const App = () => {

const [isPlayerView, setIsPlayerView] = useState(true);

return (

<div className="App">

<h1>Cricket Management App</h1>

<button onClick={() => setIsPlayerView(!isPlayerView)}>

Switch View (Current: {isPlayerView ? 'Players' : 'Indian Team'})

</button>

{isPlayerView ? <ListofPlayers /> : <IndianPlayers />}

</div>

);

};

export default App;

**src/App.cs**

.App {

text-align: center;

font-family: 'Verdana', sans-serif;

margin: 20px;

}

button {

padding: 10px 15px;

margin: 10px;

font-size: 14px;

cursor: pointer;

background-color: #4CAF50;

color: white;

}

h1, h2 {

color: #2c3e50;

}

ul {

list-style-type: none;

padding: 0;

}

li {

margin: 5px 0;

color: #34495e;

}

**Ex 10**

**Office space rental app**

npx create-react-app officespacerentalapp

cd officespacerentalapp

npm start

**App.js**

import React from 'react';

import './App.css';

const officeList = [

{ Name: "DBS", Rent: 50000, Address: "Chennai", Image: "office1.jpg" },

{ Name: "Regus", Rent: 70000, Address: "Bangalore", Image: "office2.jpg" },

];

function App() {

return (

<div className="App">

<h1>Office Space, at Affordable Range</h1>

{officeList.map((item, index) => {

let colorStyle = { color: item.Rent <= 60000 ? 'red' : 'green' };

return (

<div key={index}>

<img src={item.Image} width="25%" height="25%" alt="Office Space" />

<h1>Name: {item.Name}</h1>

<h3 style={colorStyle}>Rent: Rs. {item.Rent}</h3>

<h3>Address: {item.Address}</h3>

</div>

);

})}

</div>

);

}

export default App;

**App.css**

.App {

text-align: center;

font-family: Arial, sans-serif;

}

**Ex 11**

**eventexamplesapp**

import React, { Component } from 'react';

class CounterApp extends Component {

constructor() {

super();

this.state = {

count: 0

};

}

increment = () => {

this.setState({ count: this.state.count + 1 });

this.sayHello();

};

decrement = () => {

this.setState({ count: this.state.count - 1 });

};

sayHello = () => {

alert("Hello! Member1");

};

sayWelcome = (message) => {

alert(message);

};

handleClick = (event) => {

alert("I was clicked");

};

render() {

return (

<div>

<p>{this.state.count}</p>

<button onClick={this.increment}>Increment</button>

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

<button onClick={() => this.sayWelcome("Welcome!")}>Say welcome</button>

<button onClick={this.handleClick}>Click on me</button>

<CurrencyConvertor />

</div>

);

}

}

export default CounterApp;

import React, { Component } from 'react';

class CurrencyConvertor extends Component {

constructor() {

super();

this.state = {

amount: '',

currency: '',

result: ''

};

}

handleChange = (event) => {

this.setState({ [event.target.name]: event.target.value });

};

handleSubmit = (event) => {

event.preventDefault();

const rupees = parseFloat(this.state.amount);

const euro = rupees \* 0.011; // Sample conversion rate

this.setState({ result: `Converted Amount: €${euro.toFixed(2)}` });

};

render() {

return (

<div>

<h2 style={{ color: 'green' }}>Currency Convertor!!!</h2>

<form onSubmit={this.handleSubmit}>

<label>Amount:</label>

<input type="text" name="amount" onChange={this.handleChange} /><br /><br />

<label>Currency:</label>

<input type="text" name="currency" onChange={this.handleChange} /><br /><br />

<button type="submit">Submit</button>

</form>

<h3>{this.state.result}</h3>

</div>

);

}

}

export default CurrencyConvertor;

**Ex 12**

**Ticket Booking App**

function UserGreeting() {

return <h1>Welcome back</h1>;

}

function GuestGreeting() {

return <h1>Please sign up.</h1>;

}

function Greeting(props) {

const isLoggedIn = props.isLoggedIn;

if (isLoggedIn) {

return <UserGreeting />;

}

return <GuestGreeting />;

}

function LoginButton(props) {

return <button onClick={props.onClick}>Login</button>;

}

function LogoutButton(props) {

return <button onClick={props.onClick}>Logout</button>;

}

import React from 'react';

import './App.css';

function UserGreeting() {

return <h1>Welcome back</h1>;

}

function GuestGreeting() {

return <h1>Please sign up.</h1>;

}

function Greeting(props) {

const isLoggedIn = props.isLoggedIn;

return isLoggedIn ? <UserGreeting /> : <GuestGreeting />;

}

function LoginButton(props) {

return <button onClick={props.onClick}>Login</button>;

}

function LogoutButton(props) {

return <button onClick={props.onClick}>Logout</button>;

}

class App extends React.Component {

constructor(props) {

super(props);

this.state = { isLoggedIn: false };

}

handleLoginClick = () => {

this.setState({ isLoggedIn: true });

}

handleLogoutClick = () => {

this.setState({ isLoggedIn: false });

}

render() {

const isLoggedIn = this.state.isLoggedIn;

let button;

let pageContent;

if (isLoggedIn) {

button = <LogoutButton onClick={this.handleLogoutClick} />;

pageContent = <p>You can now book your flight tickets.</p>;

} else {

button = <LoginButton onClick={this.handleLoginClick} />;

pageContent = <p>You can browse flight details only.</p>;

}

return (

<div>

<Greeting isLoggedIn={isLoggedIn} />

{button}

{pageContent}

</div>

);

}

}

export default App;

**Ex 13**

**bloggerapp**

export const books = [

{ id: 101, bname: 'Master React', price: 670 },

{ id: 102, bname: 'Deep Dive into Angular 11', price: 800 },

{ id: 103, bname: 'Mongo Essentials', price: 450 }

];

const bookdet = (

<ul>

{props.books.map((book) => (

<div key={book.id}>

<h3>{book.bname}</h3>

<h4>{book.price}</h4>

</div>

))}

</ul>

);

const coursedet = (

<div>

<h3>Angular</h3>

<h4>4/5/2021</h4>

<h3>React</h3>

<h4>6/3/20201</h4>

</div>

);

const content = (

<div>

<h2>React Learning</h2>

<h4><i>Stephen Biz</i></h4>

<p>Welcome to learning React!</p>

<h2>Installation</h2>

<h4><i>Schwezdneier</i></h4>

<p>You can install React from npm.</p>

</div>

);

return (

<div>

<div>

{/\* Book Details \*/}

<div className="st2">

<h1>Book Details</h1>

{bookdet}

</div>

{/\* Blog Details \*/}

<div className="v1">

<h1>Blog Details</h1>

{content}

</div>

{/\* Course Details \*/}

<div className="mystyle1">

<h1>Course Details</h1>

{coursedet}

</div>

</div>

</div>

);

.st2, .v1, .mystyle1 {

display: inline-block;

margin: 0 30px;

vertical-align: top;

}

.v1 {

border-left: 4px solid green;

border-right: 4px solid green;

padding: 0 20px;

}