Week 7 React

Below are **copy-paste-ready minimal implementations** for **Labs 9–13**. Each lab is its own React app; assume you start with:

```
npx create-react-app <appname>
cd <appname>
```

Then replace/add the shown files.

Lab 9: ES6 Features in React (cricketapp)

Goals: ListofPlayers, filtering with arrow functions, destructuring, merging arrays, conditional display via flag.

src/components/ListofPlayers.js

```
import React from 'react';
function ListofPlayers({ players, flag }) {
 // Filter players with score < 70
 const lowScorers = players.filter(p => p.score < 70);</pre>
 return (
   <div>
     <h2>All Players</h2>
       {players.map(p => (
         {p.name} - {p.score}
         ))}
     <h3>Players with score below 70</h3>
     <u1>
       {lowScorers.map(p => (
         key={p.name}>
           {p.name} - {p.score}
         ))}
     </div>
```

```
);
}
export default ListofPlayers;
src/components/IndianPlayers.js
import React from 'react';
function IndianPlayers() {
 const T20players = ['Virat', 'Rohit', 'Hardik'];
 const RanjiTrophy = ['PlayerA', 'PlayerB'];
  // Merge arrays using spread
 const merged = [...T20players, ...RanjiTrophy];
  // Destructure odd/even team example
 const [odd1, even1, odd2, even2, ...rest] = merged;
 return (
   <div>
     <h2>Indian Players</h2>
     Merged List: {merged.join(', ')}
     >Destructured (example):
     <u1>
       odd1: {odd1}
       even1: {even1}
       odd2: {odd2}
       even2; {even2}
       {rest.length > 0 && rest.join(', ')}}
     </div>
  );
}
export default IndianPlayers;
src/App.js
import React from 'react';
import ListofPlayers from './components/ListofPlayers';
import IndianPlayers from './components/IndianPlayers';
function App() {
```

```
const flag = true; // toggle to false to switch display
logic
 const players = [
    { name: 'Player1', score: 85 },
    { name: 'Player2', score: 65 },
    { name: 'Player3', score: 72 },
    { name: 'Player4', score: 50 },
    { name: 'Player5', score: 90 },
    { name: 'Player6', score: 68 },
    { name: 'Player7', score: 77 },
    { name: 'Player8', score: 55 },
    { name: 'Player9', score: 80 },
    { name: 'Player10', score: 66 },
    { name: 'Player11', score: 95 },
  ];
 return (
    <div style={{ padding: '20px' }}>
      <h1>Cricket App</h1>
      {flag ? (
        <>
          <ListofPlayers players={players} flag={flag} />
          <IndianPlayers />
        </>
      ) : (
        <div>
          Flag is false. Alternative view can go here.
          <IndianPlayers />
        </div>
      ) }
    </div>
  );
}
export default App;
```

Lab 10: JSX & Inline CSS (officespacerentalapp)

Use JSX, loop through office spaces, conditional inline styling for rent.

```
src/App.js
import React from 'react';
function App() {
  const offices = [
    { name: 'Downtown Suite', rent: 55000, address: '123 Main
St' },
    { name: 'Riverside Office', rent: 75000, address: '456
River Rd' },
    { name: 'Tech Hub', rent: 60000, address: '789 Silicon
Ave' },
  1;
  return (
    <div style={{ padding: '20px', fontFamily: 'sans-</pre>
serif' }}>
      <h1>Office Space Rental</h1>
        {offices.map((office, idx) => (
          <div
            key={idx}
            style={{
              border: '1px solid #ccc',
              marginBottom: '15px',
              padding: '10px',
              borderRadius: '8px',
            }}
            <h2>{office.name}</h2>
            >
              <strong>Address:</strong> {office.address}
            >
              <strong>Rent:</strong>{' '}
              <span
                style={{
                  color: office.rent < 60000 ? 'red' :</pre>
'green',
                  fontWeight: 'bold',
```

```
}}
                ₹{office.rent.toLocaleString()}
              </span>
            <img
              alt="office"
              src="https://via.placeholder.com/300x150?
text=Office+Image"
              style={{ width: '300px', borderRadius: '5px' }}
            />
          </div>
        ))}
      </div>
    </div>
  );
}
export default App;
```

Lab 11: Event Handling (eventexamplesapp)

Counter with multiple handlers, argument passing, synthetic event, currency converter.

src/components/Counter.js

```
import React, { Component } from 'react';
class Counter extends Component {
  constructor(props) {
    super(props);
    this.state = { count: 0 };
  }
  sayHello = () => {
    console.log('Hello! Incrementing...');
  };
  increment = () => {
    this.sayHello();
    this.setState(prev => ({ count: prev.count + 1 }));
  };
  decrement = () => {
    this.setState(prev => ({ count: prev.count - 1 }));
  };
  sayWelcome = (msg) => {
    alert(`Welcome ${msg}`);
  };
  handleSynthetic = (e) => {
    alert('I was clicked');
  };
  render() {
    return (
      <div style={{ marginBottom: '30px' }}>
        <h2>Counter</h2>
        Value: {this.state.count}
        <button onClick={this.increment}>Increment (with
hello)</button>{' '}
        <button onClick={this.decrement}>Decrement</button>{'
'}
```

```
<button onClick={() => this.sayWelcome('Guest')}>Say
Welcome</button>{' '}
        <button onClick={this.handleSynthetic}>Synthetic
OnPress</button>
      </div>
    );
  }
}
export default Counter;
src/components/CurrencyConvertor.js
import React, { useState } from 'react';
function CurrencyConvertor() {
  const [rupees, setRupees] = useState('');
  const [euro, setEuro] = useState('');
  const handleSubmit = (e) => {
    e.preventDefault();
    // simplistic conversion: assume 1 Euro = 90 INR
    const converted = parseFloat(rupees) / 90;
    if (!isNaN(converted)) {
      setEuro(converted.toFixed(2));
    }
  };
  return (
    <div>
      <h2>Currency Convertor (INR to EUR)</h2>
      <form onSubmit={handleSubmit}>
        <label>
          INR:
          <input
            type="number"
            value={rupees}
            onChange={(e) => setRupees(e.target.value)}
          />
        </label>{' '}
        <button type="submit">Convert</button>
      </form>
      {euro && (
        >
          {rupees} INR = {euro} EUR
```

```
)}
    </div>
  );
}
export default CurrencyConvertor;
src/App.js
import React from 'react';
import Counter from './components/Counter';
import CurrencyConvertor from './components/
CurrencyConvertor';
function App() {
  return (
    <div style={{ padding: '20px' }}>
      <h1>Event Examples App</h1>
      <Counter />
      <CurrencyConvertor />
    </div>
  );
}
export default App;
```

Lab 12: Conditional Rendering (ticketbookingapp)

Guest vs Logged-in user views toggle with Login/Logout.

```
src/components/GuestPage.js
import React from 'react';
function GuestPage({ onLogin }) {
  return (
    <div>
      <h2>Guest View</h2>
      Browse flights, but you must login to book
tickets.
      <button onClick={onLogin}>Login
    </div>
  );
}
export default GuestPage;
src/components/UserPage.js
import React from 'react';
function UserPage({ onLogout }) {
  return (
    <div>
      <h2>User View</h2>
      Book your tickets here.
      <button onClick={onLogout}>Logout</button>
    </div>
  );
}
export default UserPage;
src/App.js
import React, { useState } from 'react';
import GuestPage from './components/GuestPage';
import UserPage from './components/UserPage';
function App() {
  const [loggedIn, setLoggedIn] = useState(false);
```

Lab 13: Conditional Rendering Variants (bloggerapp)

Three detail components with multiple conditional patterns.

```
src/components/BookDetails.js
import React from 'react';
function BookDetails({ show }) {
  if (!show) return null;
  return (
    <div>
      <h3>Book Details</h3>
      Title: React Patterns
      Author: Michael Chan
    </div>
  );
}
export default BookDetails;
src/components/BlogDetails.js
import React from 'react';
function BlogDetails({ show }) {
  return show ? (
    <div>
      <h3>Blog Details</h3>
      Topic: Conditional Rendering
      Posted on: August 1, 2025
    </div>
  ) : null;
}
export default BlogDetails;
src/components/CourseDetails.js
import React from 'react';
function CourseDetails({ show }) {
  return (
    <div>
      {show && (
```

```
<>
          <h3>Course Details</h3>
          Course: Advanced React
          Duration: 8 weeks
        </>
      ) }
    </div>
  );
}
export default CourseDetails;
src/App.js
import React, { useState } from 'react';
import BookDetails from './components/BookDetails';
import BlogDetails from './components/BlogDetails';
import CourseDetails from './components/CourseDetails';
function App() {
  const [showBook, setShowBook] = useState(true);
  const [showBlog, setShowBlog] = useState(true);
  const [showCourse, setShowCourse] = useState(true);
  return (
    <div style={{ padding: '20px' }}>
      <h1>Blogger App</h1>
      <div style={{ marginBottom: '15px' }}>
        <button onClick={() => setShowBook(prev => !prev)}>
          Toggle Book Details
        </button>{' '}
        <button onClick={() => setShowBlog(prev => !prev)}>
          Toggle Blog Details
        </button>{' '}
        <button onClick={() => setShowCourse(prev => !prev)}>
          Toggle Course Details
        </button>
      </div>
      {/* Multiple conditional rendering techniques */}
      <BookDetails show={showBook} />
      <BlogDetails show={showBlog} />
      <CourseDetails show={showCourse} />
    </div>
```

```
);
}
export default App;
To run each lab:

npm install
npm start
Open http://localhost:3000 for the respective app.
```