

Programme	:	B.Tech.	Semester	:	Winter24-25
Course	:	BCSE203E: Web Programming Lab	Slot	:	TE1/TE2
Faculty	:	Dr. LM Jenila Livingston	Marks	:	10

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Exercise-15

Code:

App.js

```
import React, {
  useState,
 useReducer,
 useEffect,
 useRef,
 useContext,
 createContext,
} from "react";
import PropTypes from "prop-types";
import "./style.css";
import "./App.css";
const MessageContext = createContext();
const counterReducer = (state, action) => {
 switch (action.type) {
   case "INCREMENT":
     return state + 1;
   case "DECREMENT":
     return state - 1;
   default:
     return state;
class LifecycleDemo extends React.Component {
```

```
constructor(props) {
    super(props);
    this.state = { msg: "Ready" };
  componentDidMount() {
    this.setState({ msg: "Mounted!" });
  componentDidUpdate() {
    console.log("Updated!");
  componentWillUnmount() {
    console.log("Unmounted!");
  render() {
   return Lifecycle Status: {this.state.msg};
const Header = ({ title }) => <h1>{title}</h1>;
Header.propTypes = { title: PropTypes.string.isRequired };
const StyledButton = () => {
  const inlineStyle = { backgroundColor: "orange", padding: "10px" };
  return (
      <style>
         border: none;
         font-size: 16px;
         margin: 5px;
      </style>
      <button className="internal-button external-button" style={inlineStyle}>
       Mixed CSS Button
      </button>
 );
};
const FormComponent = () => {
  const [text, setText] = useState("");
  const inputRef = useRef();
```

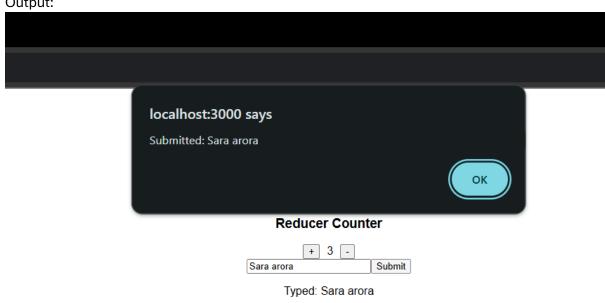
```
const handleSubmit = (e) => {
    e.preventDefault();
    alert(`Submitted: ${inputRef.current.value}`);
  };
  return (
    <form onSubmit={handleSubmit}>
        ref={inputRef}
       type="text"
        placeholder="Enter something"
        onChange={(e) => setText(e.target.value)}
      <button type="submit">Submit</button>
      Typed: {text}
    </form>
  );
};
const ContextDisplay = () => {
  const msg = useContext(MessageContext);
 return {msg};
};
const App = () => {
 const [joke, setJoke] = useState("");
  const [count, dispatch] = useReducer(counterReducer, 0);
  useEffect(() => {
    console.log("App Mounted");
 }, []);
  const getJoke = async () => {
    const res = await fetch("https://official-joke-
api.appspot.com/random_joke");
   const data = await res.json();
    setJoke(`${data.setup} - ${data.punchline}`);
 };
  return (
    <MessageContext.Provider value="This is from Context!">
      <div className="app">
        <Header title="React All-in-One Demo" />
        <StyledButton />
        <button onClick={getJoke}>Fetch Joke</button>
        {joke}
        <h3>Reducer Counter</h3>
```

Style.css

```
.external-button {
    color: white;
    background-color: green;
    padding: 10px;
    border-radius: 5px;
}

.app {
    font-family: sans-serif;
    text-align: center;
}
```

Output:



Lifecycle Status: Mounted! This is from Context!



