

<b>Started on</b>	Wednesday, 28 May 2025, 12:51 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 28 May 2025, 12:58 PM
<b>Time taken</b>	7 mins 26 secs
<b>Marks</b>	14.00/15.00
<b>Grade</b>	<b>93.33</b> out of 100.00

**Question 1**

Complete

Mark 1.00 out of 1.00

How does `useEffect()` help in components like `ProfileDisplay`?

- ☐ a. It initializes styles
- ☒ b. It performs side effects like API calls when the component mounts
- ☐ c. It controls component layout
- ☐ d. It prevents form submission

**Question 2**

Complete

Mark 1.00 out of 1.00

How does the Context API help in managing state across nested components?

- ☒ a. It provides a global store that can be accessed without prop drilling
- ☐ b. It copies props from one component to another
- ☐ c. It removes the need for state
- ☐ d. It handles server-side rendering

**Question 3**

Complete

Mark 1.00 out of 1.00

In a multi-step form, why would one prefer `useReducer` over multiple `useState` hooks?

- ☐ a. It makes the form immutable
- ☒ b. It groups all state logic into one reducer
- ☐ c. It prevents rendering
- ☐ d. It reduces memory usage

**Question 4**

Complete

Mark 0.00 out of 1.00

In Context API, what does the ``value={{ state, dispatch }}`` passed to ``Provider`` mean?

- ☐ a. It creates a new context
- ☒ b. It triggers the reducer
- ☐ c. It shares the state and dispatcher with nested components
- ☐ d. It updates the context

**Question 5**

Complete

Mark 1.00 out of 1.00

What does ``dispatch`` do in ``const [state, dispatch] = useReducer(...)``?

- ☒ a. Triggers the reducer with an action
- ☐ b. Adds CSS classes
- ☐ c. Renders a component
- ☐ d. Sets new state directly

**Question 6**

Complete

Mark 1.00 out of 1.00

What does a reducer function typically return in React?

- ☐ a. JSX output
- ☒ b. A new state object based on the previous state and action
- ☐ c. Side effects
- ☐ d. HTML template

**Question 7**

Complete

Mark 1.00 out of 1.00

What does the following hook do? `const [state, dispatch] = useReducer(formReducer, initialState);`

- ☐ a. Updates form UI
- ☐ b. Fetches static files
- ☒ c. Returns a pair for managing state via a reducer
- ☐ d. Makes async requests

**Question 8**

Complete

Mark 1.00 out of 1.00

What does the following Material UI code render? `<Button variant="contained" color="primary">Next</Button>`

- ☐ a. A button with hover effects only
- ☐ b. A plain button
- ☐ c. A button with a primary-colored border
- ☒ d. A filled primary-colored button

**Question 9**

Complete

Mark 1.00 out of 1.00

What does this code in the backend do? `const profile = new Profile(req.body); await profile.save();`

- ☒ a. It inserts a new profile document into MongoDB
- ☐ b. It updates profile by ID
- ☐ c. It reads from the database
- ☐ d. It deletes a user

**Question 10**

Complete

Mark 1.00 out of 1.00

What happens if you call ``setFormData({ email: 'test@example.com' })`` without spreading?

- ☐ a. It resets formData
- ☒ b. Only email is updated; all other fields are lost
- ☐ c. No update occurs
- ☐ d. All fields are merged

**Question 11**

Complete

Mark 1.00 out of 1.00

What is a benefit of using ``Container maxWidth="sm"`` in Material UI?

- ☐ a. It disables responsiveness
- ☐ b. It forces full width layout
- ☒ c. It restricts content width and centers it
- ☐ d. It hides overflow content

**Question 12**

Complete

Mark 1.00 out of 1.00

What is the advantage of using a single `formData` object in a form?

- ☐ a. It disables all fields
- ☐ b. It helps with server-side rendering
- ☒ c. It centralizes form state
- ☐ d. It prevents validation

**Question 13**

Complete

Mark 1.00 out of 1.00

What is the main benefit of using `useState` in a React component?

- ☐ a. It allows CSS styling
- ☐ b. It allows DOM manipulation
- ☐ c. It defines a component
- ☒ d. It lets you store local state

**Question 14**

Complete

Mark 1.00 out of 1.00

What is the purpose of `useNavigate()` in a React Router-based app?

- ☐ a. Triggers a modal
- ☒ b. Programmatically redirects to another route
- ☐ c. Creates a new route
- ☐ d. Accesses current route parameters

**Question 15**

Complete

Mark 1.00 out of 1.00

Why is `.map()` used in this code? `profile.interests.map((item, index) => <li key={index}>{item}</li>)`

- ☐ a. To transform backend data
- ☐ b. To merge arrays
- ☒ c. To render each interest as a list item
- ☐ d. To modify the state