| Started on | Wednesday, 28 May 2025, 12:49 PM |
| --- | --- |
| State | Finished |
| Completed on | Wednesday, 28 May 2025, 12:52 PM |
| Time taken | 2 mins 45 secs |
| Marks | 12.00/15.00 |
| Grade | **80.00** out of 100.00 |

**Question 1**

Complete

Mark 1.00 out of 1.00

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

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

**Question 2**

Complete

Mark 1.00 out of 1.00

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

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

**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 prevents rendering
- ○ b.   It makes the form immutable
- ○ c.   It reduces memory usage
- ◉ d.   It groups all state logic into one reducer

**Question 4**

Complete

Mark 1.00 out of 1.00

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

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

**Question 5**

Complete

Mark 1.00 out of 1.00

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

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

**Question 6**

Complete

Mark 1.00 out of 1.00

What does a reducer function typically return in React?

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

**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.   Returns a pair for managing state via a reducer
- ○ c.   Fetches static files
- ○ d.   Makes async requests

**Question 8**

Complete

Mark 0.00 out of 1.00

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

○ a.    A plain button

○ b.    A filled primary-colored button

○ c.    A button with hover effects only

◉ d.    A button with a primary-colored border

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**Question 9**

Complete

Mark 1.00 out of 1.00

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

○ a.    It updates profile by ID

○ b.    It deletes a user

◉ c.    It inserts a new profile document into MongoDB

○ d.    It reads from the database

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**Question 10**

Complete

Mark 1.00 out of 1.00

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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

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**Question 11**

Complete

Mark 1.00 out of 1.00

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

○ a.    It forces full width layout

○ b.    It disables responsiveness

○ c.    It hides overflow content

◉ d.    It restricts content width and centers it

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**Question 12**

Complete

Mark 0.00 out of 1.00

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

○ a.   It disables all fields

○ b.   It centralizes form state

○ c.   It prevents validation

◉ d.   It helps with server-side rendering

**Question 13**

Complete

Mark 0.00 out of 1.00

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

◉ a.   It allows DOM manipulation

○ b.   It defines a component

○ c.   It allows CSS styling

○ 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.   Accesses current route parameters

○ c.   Creates a new route

◉ d.   Programmatically redirects to another route

**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 modify the state

○ b.   To merge arrays

○ c.   To transform backend data

◉ d.   To render each interest as a list item