Dashboard (http://kmitonline.com/student/dashboard.php) / Quiz

Started on	Wednesday, 11 December 2024, 10:00 PM
State	Finished
Completed on	Wednesday, 11 December 2024, 10:08 PM
Time taken	8 mins 6 secs
Marks	16.00/20.00
Grade	80.00 out of 100.00

Question

1

Complete

Mark 0.00 out of 1.00

In a React app, how can you ensure a user is redirected to the login page if they are not authenticated?

Select one:

- a. Use `sessionStorage` to check for a token and conditionally render components.
- b. All of the above.
- c. Redirect users in the `useEffect` hook of the protected component.
- d. Use the `useState` hook to monitor authentication status.

Question

2

Complete

Mark 1.00 out of 1.00

Which part of this Express code prevents Cross-Origin Resource Sharing (CORS) issues?

```
const cors = require("cors");
app.use(cors());
```

Select one:

- a. It does not prevent CORS issues.
- b. `require("cors")`
- c. `app.use(cors())`
- d. Defining routes with `app.get` or `app.post`.

Question

3

Complete

Mark 1.00 out of 1.00

What will happen if the JWT token used for accessing a protected route is expired?

- a. The route will execute normally.
- b. The server will return a 403 (Forbidden) response.
- c. The client will automatically request a new token.
- d. The server will return a 500 (Internal Server Error) response.

Complete

Mark 1.00 out of 1.00

What is the purpose of the following line in the `server.js` file?			
```javascript			
app.use(cors());			
Calast ana			
Select one:			
<ul> <li>a. Enable parsing of JSON requests.</li> </ul>			
<ul><li>b. Allow cross-origin requests from different domains.</li></ul>			

### Question

5

Complete

Mark 1.00 out of 1.00

In a React app, how can you pass user data from a parent component (`App.js`) to the `Dashboard` component?

#### Select one:

- a. Using `props`.
- b. Using `sessionStorage`.

o. Handle authentication using JWT.

d. Log incoming requests for debugging.

- c. Using `useEffect`.
- d. Using `useNavigate`.

# Question

6

Complete

Mark 1.00 out of 1.00

In React, why is `useEffect` used in the `StudentsTable` component?

- a. To handle form submissions.
- b. To reset the component state.
- c. To manage routing logic.
- d. To fetch student data only once when the component mounts.

Complete

Mark 1.00 out of 1.00

What will happen if `express.json()` middleware is not used in an Express server handling a `POST` request?

### Select one:

- a. The request will be automatically rejected with a 400 error.
- b. The `next()` middleware will not execute.
- o. The request body will not be parsed, and `undefined` will be returned.
- d. The server will crash.

# Question

8

Complete

Mark 1.00 out of 1.00

Which middleware is used to parse incoming JSON requests in an Express server?

- a. `express.json()`
- b. `bodyParser`
- c. `cors`
- d.`morgan`

# 9

Complete

Mark 1.00 out of 1.00

```
Given the following backend login route, what is missing to ensure user security?

router.post("/login", async (req, res) => {
 const user = await User.findOne({ email: req.body.email });
 if (!user) return res.status(404).json({ message: "User not found" });

const isPasswordValid = req.body.password === user.password;
 if (!isPasswordValid) return res.status(401).json({ message: "Invalid password" });

const token = jwt.sign({ id: user._id }, SECRET_KEY);
 res.status(200).json({ token });
});

Select one:

a. A return statement after generating the token.

b. Password hashing and comparison.

c. Nothing is missing.

d. Setting a cookie for the token.
```

# Question

# 10

Complete

Mark 1.00 out of 1.00

What is the purpose of the `Authorization` header in a JWT-based authentication system?

### Select one:

- a. To identify the user making the request.
- b. To store user passwords securely.
- c. To retrieve cookies from the browser.
- d. To refresh the user's session automatically.

# Question

# 11

Complete

Mark 1.00 out of 1.00

Which HTTP method should be used to retrieve user data from an Express server?

- a. `DELETE`
- b. `GET`
- c. `POST`
- d. `PUT`

# **12**

Complete

Mark 0.00 out of 1.00

Which of the following code snippets is a valid way to fetch students' data in React?

### Select one:

<ul> <li>a. Nothing is missing.useEffect(() =&gt; {         const response = axios.get("http://localhost:4000/allstudents");         setStudents(response.data);     }, [students]);</li> </ul>	
<pre>b. useEffect(async () =&gt; {   const response = await axios.get("http://localhost:4000/allstudents");   setStudents(response.data); }, []);</pre>	
<pre>c. useEffect(() =&gt; {    axios.get("http://localhost:4000/allstudents").then((response) =&gt; {     setStudents(response.data);    }); }, []);</pre>	
<pre>d. useEffect(() =&gt; {   const fetchData = axios.get("http://localhost:4000/allstudents");   setStudents(fetchData.data); }, []);</pre>	

### Question

# 13

Complete

Mark 0.00 out of 1.00

What is the correct way to handle an error in an async route handler in Express?

### Select one:

- a. Using a `try-catch` block.
- b. Wrapping the handler in `Promise.resolve()`.
- o. Using a middleware function.
- d. Returning `res.status(500)` directly in the code.

# Question

# 14

Complete

Mark 1.00 out of 1.00

In React, which hook is used to redirect users after a successful login?

- a. `useNavigate`
- b. `useState`
- c. `useContext`
- d. `useEffect`

# 15

Complete

Mark 0.00 out of 1.00

In a JWT-based authentication system, where should the token typically be stored on the client side?

#### Select one:

- a. In the browser's cookies.
- b. In localStorage or sessionStorage.
- c. In the component state.
- d. In a Redux store.

# Question

# 16

Complete

Mark 1.00 out of 1.00

What will be the output of the following React code?

```
const [count, setCount] = useState(0);
```

```
useEffect(() => {
 setCount(count + 1);
```

### Select one:

}, [count]);

- a. The `count` will remain `0`.
- b. The component will increment `count` once.
- o. The `count` will increment only on user interaction.
- d. The component will crash due to infinite re-rendering.

# Question

# 17

Complete

Mark 1.00 out of 1.00

What will be the output of the following code snippet in an Express server?

```
app.get("/user/:id", (req, res) => {
 res.send(req.params.id);
});
```

Request: `GET /user/123`

- a. `undefined`
- b. `{ id: 123 }`
- c, `123`
- d. `{ id: "123" }`

# 18

Complete

Mark 1.00 out of 1.00

Which of the following	methods is used to	hash passwords securely	y in the backend?

#### Select one:

- a. `express.json()`
- b. `jwt.sign()`
- c. `fs.writeFile()`
- d. `bcrypt.hash()`

### Question

# 19

Complete

Mark 1.00 out of 1.00

What is wrong with the following Express route handling user deletion?

```
app.delete("/user/:id", async (req, res) => {
 const user = await User.findByIdAndDelete(req.body.id);
 res.status(200).json({ message: "User deleted" });
});
```

### Select one:

- a. The wrong HTTP method is used.
- b. `req.body.id` should be replaced with `req.params.id`.
- o. `findByldAndDelete` should be replaced with `deleteOne`.
- od. No error handling is implemented.

# Question **20**

Complete

Mark 1.00 out of 1.00

Which HTTP status code is returned for a successful creation of a resource in an Express server?

- a. `201`
- **b.** `404`
- c. `200`
- d. `400`