Started on	Wednesday, 11 December 2024, 10:01 PM
State	Finished
Completed on	Wednesday, 11 December 2024, 10:09 PM
Time taken	8 mins 11 secs
Marks	20.00/20.00
Grade	<b>100.00</b> out of 100.00

1

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.
- o. To retrieve cookies from the browser.
- d. To refresh the user's session automatically.

### Question

2

Complete

Mark 1.00 out of 1.00

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

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

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. Password hashing and comparison.

b. Nothing is missing.

c. A return statement after generating the token.

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

# Question

4

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`

# 5

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`

Select one:
  a. `undefined`
  b. `{ id: "123" }`
  c. `{ id: 123 }`
  d. `123`
```

#### Question



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" });
});
```

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

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());
Select one:
a. Enable parsing of JSON requests.
```

- b. Handle authentication using JWT.
- c. Log incoming requests for debugging.
- d. Allow cross-origin requests from different domains.

#### Question

8

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);
}, [count]);
Select one:
 a. The component will crash due to infinite re-rendering.
 b. The `count` will remain `0`.
 c. The component will increment `count` once.
 d. The `count` will increment only on user interaction.
```

#### Question

9

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());
```

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

# 10

Complete

Mark 1.00 out of 1.00

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

#### Select one:

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

# Question **11**

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

# Question **12**

1 4

Complete

Mark 1.00 out of 1.00

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

```
    a. useEffect(() => {
        const fetchData = axios.get("http://localhost:4000/allstudents");
        setStudents(fetchData.data);
        }, []);
    b. Nothing is missing.useEffect(() => {
```

- b. Nothing is missing.useEffect(() => {
   const response = axios.get("http://localhost:4000/allstudents");
   setStudents(response.data);
  }, [students]);
- c. useEffect(async () => {
   const response = await axios.get("http://localhost:4000/allstudents");
   setStudents(response.data);
  }, []);
- d. useEffect(() => {
   axios.get("http://localhost:4000/allstudents").then((response) => {
   setStudents(response.data);
  });
  - **}**, []);

Complete

Mark 1.00 out of 1.00

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

#### Select one:

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

## Question

14

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

#### Question

15

Complete

Mark 1.00 out of 1.00

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

#### Select one:

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

#### Question

16

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

Complete

Mark 1.00 out of 1.00

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

#### Select one:

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

#### Question

## 18

Complete

Mark 1.00 out of 1.00

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

#### Select one:

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

## Question

# 19

Complete

Mark 1.00 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 the `useState` hook to monitor authentication status.
- b. All of the above.
- c. Redirect users in the `useEffect` hook of the protected component.
- d. Use `sessionStorage` to check for a token and conditionally render components.

# 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.`200`
- b. `404`
- c, `201`
- d. `400`