Started on	Monday, 2 June 2025, 12:32 PM			
State	Finished			
Completed on	Monday, 2 June 2025, 12:37 PM			
Time taken	5 mins 28 secs			
Marks	10.00/12.00			
Grade	83.33 out of 100.00			
Question 1				
Complete				
Mark 1.00 out of 1.00				
How can you preven	t JWT replay attacks in sensitive RBAC-based applications?			
a. Implement r	otating refresh tokens			
○ b. Use longer expiration time				
○ c. Store tokens in localStorage				
d. Use only the	e frontend to validate roles			
o air ooc omy and				
Question 2				
Complete				
Mark 1.00 out of 1.00				
If a user's role is une	lated from "editor" to "admin", but their JWT hasn't expired yet, what is a potential risk?			
ii a usei s role is upo	lated from Editor to admir, but their 5WT hash t expired yet, what is a potential risk:			
a. Signature ge	ets mismatched			
b. Role update	may not reflect until re-login			
c. Token size i				
a. Token beco	mes invalid immediately			
Question 3				
Complete				
Mark 1.00 out of 1.00				
In a RBAC model, wh	nich principle is crucial for minimizing access privileges?			
a. Least privile	ge			
b. Token obfus	cation			
c. Role inherita				
d. Time-based				
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Question 4					
Complete					
Mark 0.00 out of 1.00					
In a secure RBAC system, where should the logic for role-based route protection ideally reside?					
 a. Frontend only 					
○ b. Database triggers					
o. Middleware or backend route handlers					
d. JWT header					
Question 5					
Complete					
Mark 1.00 out of 1.00					
What change should be made to the following JWT-based login handler to add RBAC? const token = jwt.sign({ id: user.id }, 'mysecret');					
○ a. Use HS512 algorithm					
b. Add role: user.role to payload					
c. Add user email to the payload					
○ d. Encrypt the token					
Question 6					
Complete					
Mark 1.00 out of 1.00					
What is a secure way to refresh a short-lived JWT without asking the user to log in again?					
a. Use a cookie-stored access token					
 b. Use the same JWT for 1 year 					
C. Use a secure refresh token mechanism					
○ d. Store token in sessionStorage					
Question 7					
Complete					
Mark 1.00 out of 1.00					
What is the primary purpose of the JWT signature?					
 a. Encrypts the token data 					
 b. Stores expiration timestamp 					
c. Prevents cross-site scripting attacks					
d. Validates the integrity and authenticity of the token					

Question 8
Complete
Mark 1.00 out of 1.00
What is the problem with the following ends if used in production? constitution—just sign((userld, 1), 1921 (everyolin, 12h)).
What is the problem with the following code if used in production? const token = jwt.sign({ userId: 1}, '123', { expiresIn: '2h' });
○ a. Token will never expire
b. Nothing, it's secure
c. It uses numeric user ID
d. The secret is weak and predictable
The Secret is weak and predictable
Question 9
Complete
Mark 1.00 out of 1.00
What will happen if the secret key used to sign a JWT is leaked?
O a DATT will auto aurine
a. JWTs will auto-expire
b. Any user can generate valid tokens
c. Signature verification will be stricter
od. Token will become unreadable
Quarties 10
Question 10
Complete
Complete
Complete
Complete Mark 1.00 out of 1.00 Which claim in a JWT helps enforce token expiration?
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Question 12		
Complete		
Mark 1.00 out of 1.00		

Why is storing a JWT in localStorage considered risky in web applications?

- a. It expires too quickly
- b. It's vulnerable to XSS attacks
- o. It increases backend load
- Od. It cannot be read by JavaScript