



NPTEL

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Courses » Introduction to Modern Application Development

Announcements

Course

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Unit 5 - Week 4: Introduction to security for webapps

Course outline

How to access the portal?

Week 1 Lectures: Introduction to the Internet

Week 2 lectures: Building your webapp

Week 3 Lectures: Databases

Week 4: Introduction to security for webapps

Module 13: Authentication with HTTP

Module 14: Understanding security, and some best practices for webapps

Module P11: Introduction to authentication, hashing, curl & sessions

Quiz : Assignment 4

Week 4 Feedback

Week 5 - Android Application Development

Week 6 - Advanced Databases and Introduction to iOS

Assignment 4

The due date for submitting this assignment has passed. **Due on 2018-03-07, 23:59 IST.** As per our records you have not submitted this assignment.

(no negative marking, more than one options may be correct)

1) Which protocol's headers are used for web app session management?

1 point

- ☐ HTTP
- ☐ TCP
- ☐ IP
- ☐ HTTPS

No, the answer is incorrect.

Score: 0

Accepted Answers:

HTTP

HTTPS

2) XSS exploits vulnerability in the

1 point

- ☐ network
- ☐ app source code
- ☐ browser
- ☐ web server host

No, the answer is incorrect.

Score: 0

Accepted Answers:

app source code

3) Which of these are good places to keep the database credentials?

1 point

- ☐ In a separate file on your web server host
- ☐ In a separate file in your source code
- ☐ In your database
- ☐ None of the above. They should not be stored.

No, the answer is incorrect.

Score: 0

Accepted Answers:

In a separate file on your web server host

4) Which of the following are almost completely under a developer's control for a webapp

1 point

- ☐ Network security
- ☐ Database security

Week 7: Modern Development Practices

Week 8 - Concluding Lectures

Download

- ☐ Browser security
- ☐ Server host security

No, the answer is incorrect.

Score: 0

Accepted Answers:

Database security

Server host security

5) How many cookies can you save for your webapp on a browser?

1 point

- ☐ 100
- ☐ 50
- ☐ Depends on the browser
- ☐ None of the above.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Depends on the browser

6) What is essential to ensure data is sent securely over the network to the right server

1 point

- ☐ Having an authentication token
- ☐ Using HTTPS Protocol
- ☐ Using Hash functions
- ☐ Server SSL certificate validation

No, the answer is incorrect.

Score: 0

Accepted Answers:

Using HTTPS Protocol

Server SSL certificate validation

7) What properties of hash functions are necessary when used for hashing passwords?

1 point

- ☐ It converts a particular string to the same random string each time
- ☐ It converts string of any length to a string of fixed length
- ☐ It is not possible to recover the original string from its hashed value
- ☐ The chance of two strings giving the same hash value is very low

No, the answer is incorrect.

Score: 0

Accepted Answers:

It converts a particular string to the same random string each time

It is not possible to recover the original string from its hashed value

The chance of two strings giving the same hash value is very low

8) A web app and a native mobile app can share the same

1 point

- ☐ API for fetching data
- ☐ Web server
- ☐ HTML + CSS
- ☐ Frontend code

No, the answer is incorrect.

Score: 0

Accepted Answers:

API for fetching data

Web server

9) Which of these is a good candidate for a user's session-id

1 point



- ☐ User's hashed password
- ☐ A newly generated random string every time the user logs in
- ☐ A fixed random string saved in the user database
- ☐ User's password

No, the answer is incorrect.

Score: 0

Accepted Answers:

A newly generated random string every time the user logs in

10) Which of the following security attacks are caused due to not sanitizing user input carefully **1 point**

- ☐ XSS
- ☐ SQL Injection
- ☐ Man in the middle
- ☐ DDOS

No, the answer is incorrect.

Score: 0

Accepted Answers:

XSS

SQL Injection



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