

31 Lecture - CS506

Important Mcqs

Certainly, here are 10 multiple-choice questions (MCQs) related to session tracking in web applications, along with their solutions and multiple options:

****Question 1:**** What is the primary purpose of session tracking in web applications?

****Options:****

- A) Displaying ads to users
- B) Personalizing user experiences
- C) Blocking access to the website
- D) Generating random session IDs

****Solution:**** B) Personalizing user experiences

****Question 2:**** Which of the following methods is commonly used to implement session tracking?

****Options:****

- A) IP tracking
- B) URL tracking
- C) Request tracking
- D) Cookie tracking

****Solution:**** D) Cookie tracking

****Question 3:**** How does session tracking typically work?

****Options:****

- A) Using user login credentials
- B) Storing data in client-side cookies
- C) Utilizing server-side sessions
- D) Embedding data in HTML forms

****Solution:** C) Utilizing server-side sessions**

****Question 4:** What is a session ID?**

****Options:****

- A) A unique identifier for the user's device
- B) A randomly generated URL for session tracking
- C) A token used to access restricted areas
- D) An identifier to recognize a user's session

****Solution:** D) An identifier to recognize a user's session**

****Question 5:** Which of the following is a common way to track sessions without using cookies?**

****Options:****

- A) IP address tracking
- B) URL rewriting
- C) Request headers tracking
- D) HTML form tracking

****Solution:** B) URL rewriting**

****Question 6:** How is session tracking through cookies advantageous for users?**

****Options:****

- A) It allows users to access restricted areas
- B) It eliminates the need for user authentication
- C) It provides a seamless and personalized experience
- D) It speeds up the website loading process

****Solution:** C) It provides a seamless and personalized experience**

****Question 7:** What is the purpose of a session timeout?**

****Options:****

- A) To forcibly end a user's session
- B) To prevent unauthorized access
- C) To limit the number of sessions
- D) To reduce server load

****Solution:** A) To forcibly end a user's session**

****Question 8:** Which HTTP header field is used to store and transmit session IDs?**

****Options:****

- A) `Session-ID`
- B) `Cookie-ID`
- C) `Session-Header`
- D) `Set-Cookie`

****Solution:** D) `Set-Cookie`**

****Question 9:** In servlets, how can you access the session object?**

****Options:****

- A) Using the `getSession()` method of `HttpSession` interface
- B) Using the `getSession()` method of `HttpServletRequest` interface
- C) Using the `getSession()` method of `HttpServletResponse` interface
- D) Using the `getSession()` method of `ServletContext` interface

****Solution:** B) Using the `getSession()` method of `HttpServletRequest` interface**

****Question 10:** Which session tracking mechanism is most secure against user manipulation?**

****Options:****

- A) IP tracking
- B) URL rewriting
- C) Hidden form fields
- D) Cookies with secure attributes

****Solution:** D) Cookies with secure attributes**