31 Lecture - CS506

Important Subjective

Certainly, here are 10 short-answer questions related to session tracking in web applications along with their answers:
Question 1: What is session tracking in web applications?
Answer: Session tracking refers to the process of maintaining user-specific data and state across multiple requests during a single session on a website.
Question 2: What is the purpose of session tracking?
Answer: The purpose of session tracking is to provide a personalized and consistent experience to
users by preserving data across multiple interactions with a website.
Question 3: What are cookies, and how are they used in session tracking?
Answer: Cookies are small pieces of data stored on a user's browser. They are used in session
tracking to store session IDs, enabling the server to recognize and identify the user during subsequent requests.
Question 4: What is a session ID?
Answer: A session ID is a unique identifier assigned to each user's session. It is used to associate the user with their stored session data on the server.
Question 5: How does URL rewriting work for session tracking?

**Answer: ** URL rewriting involves appending the session ID as a parameter to URLs. This allows the server to recognize the session even if cookies are disabled.
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Question 6: What is the significance of a session timeout?
Answer: A session timeout specifies the duration a user's session remains active without any
activity. After this period, the session is considered expired, enhancing security and efficient resource
management.
Question 7: How is session tracking related to security?
Answer: Session tracking helps maintain user data securely by associating session IDs with user-
specific information. However, inadequate security measures can lead to session hijacking or fixation
attacks.
Question 8: What happens if a user's browser rejects cookies during session tracking?
Answer: If cookies are rejected, other session tracking mechanisms like URL rewriting or hidden
form fields can be used to maintain the session.
Question 9: How does the server handle session tracking?
Answer: The server assigns a unique session ID to each user and stores the associated data on the server. During subsequent requests, the session ID is used to retrieve and update user-specific
information.
Question 10: Can session tracking be employed in stateless protocols like HTTP?
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Answer: Yes, session tracking mechanisms, such as cookies or URL rewriting, allow web applications to maintain state across multiple HTTP requests, effectively adding a stateful layer to the
stateless protocol.