34 Lecture - CS506

Important Subjective

Certainly, here are 10 short-answer questions related to JavaServer Pages (JSP), along with their answers:
Question 1: What is the primary purpose of JavaServer Pages (JSP)?
Answer: JSP is used to create dynamic web pages by allowing Java code to be embedded within HTML.
Question 2: How does JSP differ from Java Servlets?
Answer: JSP combines Java code with HTML, making it easier to create dynamic content, while Servlets focus on Java code to handle requests and responses.
Question 3: What are JSP directives?
Answer: JSP directives provide instructions to the container about how to translate and execute the JSP page. They are used to import classes, set content type, etc.
Question 4: What is the purpose of the JSP expression language?
Answer: The JSP expression language simplifies embedding Java expressions within HTML, making it easier to retrieve and display dynamic data.
making it easier to retrieve and display dynamic data.
Question 5: How is a JSP page translated and executed by the server?
Answer: The JSP page is first translated into a Java servlet and then compiled into bytecode. The servlet is executed by the server to generate HTML for the client.

Question 6: What is the role of JSP tags?
Answer: JSP tags provide dynamic content and control structures. They allow insertion of Java code into the HTML and enable the generation of dynamic content.
Question 7: How is a JSP session managed?
Answer: JSP sessions are managed using implicit objects like `session` that provide access to session-related information, allowing data to be stored and retrieved across requests.
Question 8: What is the difference between a JSP declaration and a scriptlet?
Answer: A declaration is used to define variables and methods that can be used throughout the JSP page, while a scriptlet contains Java code that generates dynamic content.
Question 9: How can JSP tags be categorized?
Answer: JSP tags can be categorized as standard actions (provided by JSP) and custom actions (defined by developers), which allow for modular and reusable components.
Question 10: How does JSP contribute to the Model-View-Controller (MVC) architecture?
Answer: JSP primarily represents the view in the MVC architecture, focusing on the presentation and user interface aspects of a web application.