

44 Lecture - CS506

Important Subjective

Certainly, here are 10 short-answer questions related to Client Side Validation & JavaServer Faces (JSF), along with their answers:

****Question 1: What is the primary purpose of Client Side Validation in web forms?***

****Answer:** Client Side Validation aims to validate user input directly in the browser before submitting it to the server. This enhances user experience by providing instant feedback and reducing the need for unnecessary server requests.**

****Question 2: How does JavaServer Faces (JSF) simplify UI development?***

****Answer:** JSF simplifies UI development by providing a set of reusable components and a component-based architecture. Developers can create UI elements like forms, buttons, and input fields using predefined components, reducing the need for manual HTML coding.**

****Question 3: What is the role of Managed Beans in JSF?***

****Answer:** Managed Beans in JSF are Java objects used to encapsulate and manage the application's data and business logic. They act as intermediaries between the UI components and the backend logic, enhancing separation of concerns.**

****Question 4: What does "state management" mean in the context of JavaServer Faces (JSF)?***

****Answer:** State management in JSF refers to the mechanism used to maintain the state of UI components between requests. This ensures that user interactions and data are preserved across different parts of the application.**

****Question 5: How does JSF handle both client-side and server-side validation?***

****Answer:** JSF provides a combination of client-side validation using JavaScript for immediate user feedback, and server-side validation for comprehensive data integrity checks during submission, ensuring security and accuracy.**

****Question 6: How does JSF achieve reusability in UI components?***

****Answer:** JSF promotes reusability by using templating and component libraries. Developers can create custom components and templates, making it easy to reuse and standardize UI elements across different parts of the application.**

****Question 7: What is the purpose of the <h:inputText> tag in JSF?***

****Answer:** The <h:inputText> tag is used to create an input field for users to enter text. It binds the entered value to a property in a Managed Bean, allowing data to be processed and manipulated on the server side.**

****Question 8: How does JSF manage the component lifecycle?***

****Answer:** JSF defines a series of phases that a component goes through, from creation to rendering. These phases include initialization, validation, model updating, and rendering, ensuring proper handling of user interactions.**

****Question 9: What is the default view technology used by JSF for generating user interfaces?***

****Answer:** The default view technology used by JSF for generating user interfaces is JavaServer Faces (JSF) pages, which are typically written using XHTML syntax.**

****Question 10: How does JSF enhance separation of concerns in web applications?***

****Answer:** JSF promotes separation of concerns by dividing the application into distinct layers: UI components, Managed Beans for business logic, and templates for layout. This separation improves code maintainability and modularity.**