27 Lecture - CS506

Important Subjective

Certainly, here are 10 short-answer questions related to creating a simple web application in Tomcat along with their answers:
Question 1: What is Tomcat, and what is its role in web development?
Answer: Tomcat is a web server and servlet container used to deploy and manage web applications. It hosts web content and executes Java servlets to serve dynamic content.
Question 2: Explain the purpose of the `webapps` directory in Tomcat.
Answer: The `webapps` directory is where web application files are placed. Each subdirectory within `webapps` represents a separate web application that Tomcat can deploy and run.
Question 3: How is the `web.xml` file used in a web application?
Answer: The `web.xml` file, also known as the deployment descriptor, is used to configure the weapplication. It defines servlet mappings, initialization parameters, and other settings necessary for the application's functioning.
Question 4: What does the `WEB-INF` directory contain, and why is it important?
Answer: The `WEB-INF` directory houses web application resources that are not directly accessible by clients. It contains configuration files, classes, and libraries critical for the application's operation.

Question 5: How can you access the Tomcat Manager application, and what is its purpose?

Answer: The Tomcat Manager application is accessed via the URL path `/manager`. It provides a
web-based interface to manage deployed web applications, monitor server status, and perform
administrative tasks.
Question 6: Explain the role of the `index.html` file in a web application.
Answer: The `index.html` file is the default landing page of a web application. It's displayed when
users access the root URL of the application. It's typically used to provide a user-friendly introduction
or navigation to the application.
Question 7: What is a servlet, and how does it differ from a JSP?
Question 7. What is a service, and now does it unfer from a 351.
Answer: A servlet is a Java class that handles dynamic content generation and processing of client
requests. A JavaServer Page (JSP) combines Java code with HTML to generate dynamic content,
providing a more convenient way to create web pages.
Question 8: How do you configure a servlet in the `web.xml` file?
Answer: To configure a servlet, you define its ` <servlet>` and `<servlet-mapping>` elements in the</servlet-mapping></servlet>
`web.xml` file. The ` <servlet>` element specifies the servlet's class name, and the `<servlet-mapping>` element associates URLs with the servlet.</servlet-mapping></servlet>
eighient associates UKLS with the serviet.
Question 9: What is the purpose of the default port number 8080 in Tomcat?
Answer: Port 8080 is the default port on which Tomcat listens for incoming HTTP requests. When you access a web application deployed in Tomcat, you typically use a URL like
http://localhost:8080/myapp.
nttp://ocamost.ovov/myapp
Question 10: How can you deploy a web application in Tomcat?
Answer: To deploy a web application in Tomcat, you place its files in the `webapps` directory.
Tomcat automatically detects and deploys the application. You can then access it using the appropriate
URL path based on the application's name.