**JWD**  4/1/2021

1. What is deployment descriptor? Write and explain various tags?

2. What are HTTP headers? Explain some important headers?

3. What is eager managed bean?

4. What is Servlet Context? Explain with an example?

5. What is the significance of name and eager attributes in managed bean? 6. Differentiate between <jsp:include> and <%@include %> with an example.

7. Explain @component and @autowired Spring annotation with an example?

8. State the benefits of using Custom Tags in JSP?

1. What are listeners in JSF? Explain ActionListener and ValueChangeListener with an example?

1. How is MVC. architecture followed in JSF?

2. Write the code to create custom validator to validate the person name. It must be at least 3 characters long.

3. Write a note on websockets?

1. What are custom tags? Create a custom tag in JSP to extract the part of a given string.

1. Create a page in JSP which performs insert and delete operations on Customer. Perform following validation in JavaBean before you submit the form:

(a)No field should be blank..

(b) Name of the Customer should contain only alphabets.

2. Write the steps to create custom components in JSF?

3. Explain sql tags of JSTL/EL?

1. Explain Validators and Converters in JSF?

2. Write down an XML describing employeeID, employeeName, Salary, department and project. Use JSTL to parse the xml and display the employees according to the project selected.

3. Explain Server push feature of Servlet?

1. How Event Handling is performed on JSF?

2. What are Web Filters? Explain filter lifecycle? Is multiple filters possible for a single servlet. If yes, then explain with an example?

3. How is MVC architecture followed in spring framework?

17/4/23

1. Write the tag to use prime faces, how is it different than JSF? Explain any 5 prime faces controls.

2. Explain formatting tags of JSTL/EL.

3. Explain asynchronous servlet in detail.

1. Explain the request processing lifecycle of JSF.

2. Explain Session handling in Servlet.

3. Explain Servlet Web Listeners in detail.

1. Explain JSTL EL in detail.

2. What is PhaseListener in JSF? Explain its usage with example.

3. Explain the lifecycle phases of JSP?

1. How Event Handling is performed in JSF?

2. Explain Web Sockets in detail.

3. What are custom tags in JSP? Explain the benefits of using custom tag? Create a custom tag in JSP to extract the part of a given string.

1. Explain Cookies in Servlet in detail.

2. Explain Server push feature of Servlet?

3. Explain the working of AJAX? Write the code for dependent dropdown using AJAX in JSP?

26-07-2023

1. Explain jap directive element

2. What is the use of Request Dispatcher Interface?

3. Why do we need servlet filter?

4. How can we handle exceptions in JSP? 5. Give steps to create custom tags in JSP.

6. What is h:commandLink tag in JSF?

7. What do you mean by dependency Injection?

8. What is KeyStore?

1. Explain the working of AJAX.

2. Explain Servlet Lifecycle

3. Explain Server push feature of Servlet

1. What is URL rewriting? Explain with example. Also discuss advantages and disadvantages of URL rewriting.

2. Explain formating tags in JSTL/EL with examples

3. Explain JSP life cycle.

1. What is an action tag? Explain any 3 action tags with example.

2. What is Java bean in ISP? Explain its usage with example

3. What is CDI bean in JSF? Explain the process of registering using annutation with example

1. Explain Spring boot features.

2. Explain Custom Validators and its usage in 35F with example.

3. Explain JSF lifecycle

Unknown..

1. List logical tiers in Java EE application

2. What are the annotations used in Servlet?

3. What is servlet filter?

4. hat are the different scope values for the jipuseBean tag

5. How many types of tags are provided in ISTL?

6. Give a list of facelet tags.

7. What are different components of a spring application?

8. What are converters in IST?

1. Explain advantages of using Java for building web applications

2. Explain filters and its working.

3. List session management techniques in servlet. Explain any one on detail.

1. Write a program to display all records from employee(eid, name salary) table using servlet.

2. Write a note on WebSockets.

3. Explain with example handling of AJAX request in JSP.

1. Explain about EL in JSP.

2. Suppose we have a web application that needs to show in English and Hindi languages, How to configure this using JSP? Give example.

3. Explain JSF CDI bean.

1. Explain Spring MVC life cycle.

2. Explain creating a template in JSF with example.

3. What is Java security certificate? Discuss SSL certificates.

EJ 5/1/2021

a) What is an Enterprise Architecture. Explain how Java is most suitable platform for

enterprise architecture.

b) Explain Realms, Principal, Roles Groups and Its usage in cutom form-based authentication

c) Explain Singleton Beans

d) Write a note on EJB Schedulers and Timers

a) Explain

1) Stateless EJB

2) Topic and Queue

b) Explain the applicalibility of Remote and Local beans in Enterprise Applications

c) Explain the working of Queue and Topic Based Messaging EJBs

d) Explain

1) JNDI

2) Security Realms

a) Explaining the working of JPA using Entities, Relationships, Persistence Context, and fetch Methods. Write suitable code for the same.

b) Write a code to add, remove and retrieve the data from Many to Many Relationship entities and how Java EE maps it in the Persistance API

c) Explain the JAX-WS architecture and SOAP

d) Explain REST Design Pattern and how it is implemnted in Enterprise Application.

a) Explain enterprise Security Architecture in Java EE 8

b) Write a note on

1) HttpAuthentication Mechanism

2) WSDL and UDDI

19/4/2023

a) Comment on the transactional aspects of EJB.

b) How will you provide authorization parameters in a REST call for Access Control?

c) Write about the lifecycle callbacks in BJB.

d) Explain the difference between REST and web services

e) "Java EE works on n-Tier Architecture". Explain

f) Explain the types of EJB based upon their accessibility constraints. Give example.

g) Compare and contrast between a remote EJB call and a SOAP call.

h) What are Timers. Explain Interval Timer with example

a) Explain the life cycle of Stateless and Stateful Session bean with sitable example

a) Explain bean managed persistence with the working of Singleton Beans

b) What is the benefit of asynchronous messaging in EJB Explain steps and code to implement it.

a) Explain the structure and functioning of WSDL. and UDDI

a) Explain the srchitecure of SOAP based webservices

b) Explain the importance of REST architecture and steps to implement it in Java EE applications

a) What is Persistence Context. Explain its objects and working for managing data stored in underlying RDBMS

a) Explain with example code

1) Fetch Types

2) Named and Native queries

b) Two entities Officer and Committee are in certain relationship. Write the entity classes for them and also write down the code of inserting and removing references of their relationship

a) Explain the importance JSON Web Tokens and its implementation in Java EE applications [6]

b) Explain the following terms

a) SSL Certificates

b) FormBasedAuthenticationMechanism

c) OAuth

22-07-2023

a) What is the role of JNDI in data driven enterprise applications

b) Write the role of POJO and POJI in Java applications.

c) What do you understand by Entreprise Architecture

d) Write the difference local und remote beans.

e) List and write about various Fetch types in JPA

f) Write a note on Asynchronous Beans

g) How can you ensure the confidentiality and trust in Java EE applications

h) Write a short note on websockets.

a) Explain the life cycle of Stateful Session bean with sitable example

a) Explain bean managed persistence with the working of Singleton Beans

b) With all the steps and code explain as how two Message Driven Beans will pass message each other

a) Eplain the full stack of SOAP based web services

a) Explain structure of a WSDL documents

b) Explain importance of REST architecture and steps to implement it in Java EE applications

a) Explaining the importance of ORM, Write down the way of implementing ORM by JPA

a) Explain various useful methods of JPA used in CRUD and fetch operations

b) Two entities Author and Books are in certain relationship. Write the entity classes for them and also write down the code of inserting and removing references of their relationship.

a) Explain the following terms

a) EJB Timers and Schedulers

b) Identity Stores and Credential

c) SSL Certificates

b) Explain the importance JSON Web Tokens and its implementation in Java EE applications

Unknown...

a) Describe various Fetch types in JPA

b) What is role of timers and schedulers. Give example

c) Explain atomicity and isolation in JTA

d) Write the difference between local and remote beams.

e) Write the steps to generate RSA key pair and certificates

f) Write a note on Singleton beans

g) What is the Improvement of JPA over conventional JDBC

h) Write a short note on websockets

a) Explain the life cycle of Stateless and Stateful Session bean with suitable example

a) Explain the difference between local and remote bean and how they can be used in JSP and JSF.

b) Explain the life cycle of Message Driven Deans, message types and is complete implementation in Java EE application

a) Explain the full stack of WSDL. and functions of UDDI

a) Explain the architecture of SOAP based on services and List all the steps of communication which take place in execution with a simple code of service and client.

b) What are various HTTP methods used for REST. Explain the importance of REST architecture and stops to implement it in Java EE applications

a) Explaining the importance of ORM, Write down the way of implementing ORM by JPA

a) Explain various query types and transaction management in JPA

b) Two entities Class and Student are in certain relationship. Write the entity classes for them and also write down the code of inserting and removing references of their relationship

a) Explam the following terms

a) Asynchronous Beans

b) Web Authentication Filter

c) Jersey Clients with SSL

b) Explain the importance JSON Web Tokens and its implementation in Java EE applications