UNIT-IV

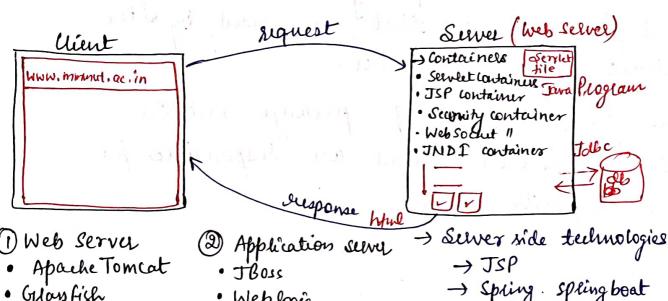
Java Beans : Application Builder tools, The Bean Developer Kit (BDK), JAR files, Introspection, developing a simple bean, using Bound phoputies, The Java Beans API, Session Beam, Entity Beam, En

Introduction to Java Selvlet: Selvlet Basics, Selvlet API basic, lifecycle of a Selvlet, Running Selvlet.

JAVA Seevlet

(server side Java Moglains) Selvet: - Selvie - Side technology which is used to

- -> handle the client request
- process the lequest
- -) generate dynamic sisponse. Client -> blowser (Chrome, Mozilla Firefox, Opera, Internet Explorer)



- (1) Web Serva
 - · Glassfish
- Tetty

- · Weblogic
- · IBM Websphere
- - → Spring. spring boat
 - -> Struts, JSF
- → python

- S) Difference b/w CGI (Common Gateway Intelface).

 and Hypertext Prepreprocessor (PHP)
 - B) Difference 6/w Surlet & CGI

Seevlet API (www. Javatpoint. com/sewlet-api)

In Java, to create web applications we use Servets. To create Java Servets, we need to use Servet API which contains all the necessary interfaces and classes.

Sievlet API has 2 pacadages namely,

- 1 javax. seevlet
- D Javax. Sewlet. htlp geeks for geeles. 039 (Study from this website)
- The Javax. Sewlet package contains many interferes & classes that are used by the sewlet or web container.
- The jowax. sewlet, http package contains interferes & classes that are responsible for http requests only.

dife cycle of a devolet

- Odervet class is loaded.
- @ Suvlet instance is cleated.
- 3 init method is trooked.
- Desvice method is invoked.
- (3) destroy method is involved.

 L) public void destroy()
- public void init (Servlet Config config) throws Servlet Exception

-> Survice method

public void service (Servetkequest sequest, Servetkezpouse sesponse) throws ServetException, IO Exception

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Java Beans

- · Java Beans are developed with the mole of "White Once and Run any where".
- The Tava Bean is a sensable and Platform. Independent component.
- -> Java beans are classes

What is a Bean?

- Many no. of objects that can be encapsulated in a single objects
- -> Bean components can be manipulated visually in a Buildy tool. Ex. Swing, AWT.

Class
Data membus
Methods
Constitutors

Diblic class

public no alg contlautor

may have accuror method

may have segistration, —

designation methods

Dava bean component

Implement by serializable Interpress

Second Component

Setter Getter
4
Mutatos Accessor

8) Difference b/w Tava Brans & EJB 8) Difference b/w Letter & geller in Java.

Tute-4

- (3) What is SWING ? Define features of swing class over
- Q2) Explain MVC Architecture with diagram and write advantage of MVC.
- 93) Define Containers and components with examples?
 94) Wate the steps of JDBC connectivity model with example. example.
- 95) What is RMI ? How we connect to Remote Database?
- 96) What is TDBC/ODBC Bridge?

- 9 (1) What is Servet ? Exploien the lifecycle of a Selvlet.
- 9 2 What do you mean by server-side include (SSI) functionality in Similes?
- 93 Write a steps to create a sewlet with example?
- 9 A What is Java Beans ? What are the steps to create it and view it in the BeanBox.
 - QB What is Infolius? What are the properties of Java beans?
 - Q6 Explain a) JAR files
 - 6) Indisspection
 - c) The Javer Beans API