Phase 2

Day 1

14-05-2022

9 Days

JavaEE (JEE ) : Java Enterprise Edition

Servlet

JSP

JDBC

Hibernate

My SQL Database (self-learning).

Self learning (spring framework)

Phase 3 :

Spring framework and Spring boot

Phase 4 :

UI : HTML,CSS,JS (Self learning) Typescript and Angular framework

Phase 5 :

Testing

Docker

Jenkin

Kubernetes overview

AWS Overview

Java

J2SE J2EE J2ME

JavaSE JavaEE JavaME

JSE JEE JME

Java Standard edition Java Enterprise Edition Java Micro edition

Core Java It is use to create the

Standalone application web application.

Or

Desktop application

https://[www.google.com](http://www.google.com) --🡪 URL (Uniform resource locator)

http : hyper text transfer protocol secure (protocol)

www : world wide web

google 🡪 domain

com 🡪 commercial

http/https (req)-----🡪 server

Client Server

🡨----------http/https(res)

HTML/HTML5

CSS/CSS3

JS (JavaScript)

JEE

Spring and spring boot

Asp.net

Php

Python

Node JS

HTML 🡪 it is use to display the content on browser.

CSS 🡪 it is use to apply good look and feel of the contents.

JS🡪 Programming on web page or action on web page.

JEE : Java Enterprise Edition

JEE contains three modules ie Servlet, JSP (Java Server Pages ) and EJB (Enterprise Java Bean).

To run and deploy the server side technologies we required server.

Application point of view the server are divided into 2 types.

1. Web Server : Tomcat (Apache company), JEE Server
2. Application server or app server : Glashfish, web logic, jboss etc.

In Servlet, JSP and EJB no main method.

In server side technologies we compile the program and deploy this application on server.

Server contain container. Container is a part of server which is also known as engine or run time environment. Container is responsible to execute servlet, jsp and EJB program means load the class, create the object of that class, call the life cycle method and destroy the object.

If Server is type of web server which contains only one type of container ie web container. Web container is responsible to execute servlet and jsp program.

If server is type of application server which container different type of container like web container, ejb container, jms container etc. web container is responsible to execute servlet and jsp program and ejb container is responsible to execute ejb programs.

Application server provide extra features like connection pooling, thread management, resource management, security etc.

Development mode we use web server

Production mode we use application server.

Core java (AWT and swing).

Servlet : Servlet is a normal java program(but no main method) which help to create the dynamic web page on server side.

Servlet API : Application Programming interface.

import javax.servlet.\*; servlet is a package which contains set of classes and interfaces.

Import javax.servlet.Servlet; it is a interface which contains set of abstract method.

5 methods

init, service, destroy, getServletInfo, getServletConfig

among that init, service and destroy is known as life cycle method. life cycle methods means it will call automatically.

public class Demo implements Servlet {

we have to override all five methods mandatory.

}

GenericServlet : It is a type of abstract class which internally implements Servlet interface and provided the body for all method except service methods.

public class Demo extends GenericServlet {

so we have to override only one method ie service mandatory.

}

HttpServlet : it is a type of abstract class which internally extends GenericServlet. This class provided the body for service method as well as provided some extra method in the form of doXXX like doGet, doPost, doPut, doDelete etc.

doXXX is not a life cycle method. They wrap service method and provide some extra functionality.

public class Demo extends HttpServlet {

we have to override doGet, doPost, service(but not advisable). Don’t use service method use doGet or doPost.

}

GenericServlet use all type of protocol it http, ftp, smpt

HttpServlet : it is use only http protocol.

Web.xml is known as DD file (Deployment descriptor file).

Servlet and servlet-mapping tag is use to map the request.

<http://localhost:9393/SimpleServletApp/Hi>

<http://localhost:portnumber/ProjectName/UrlPattern>

through hyperlink or form (default) method consider as get. And it will call servlet doGet method.

if method is get the information send through url using url re-writing technique.

Syntax

URL?key=value&key=value&key=value

If method is post , then information send through body part. So post method is secure.