

Dt : 20/10/2024(Day-21)

Note:

=>In the process of Constructing Servlet-program,the program must be implemented from 'jakarta.servlet.Servlet' interface.

=>This implemented servlet-program must implement(construct-body) all abstract methods of Servlet-Interface.

=>Server will instantiate(creating Object) Servlet-program automatically when loaded for execution.

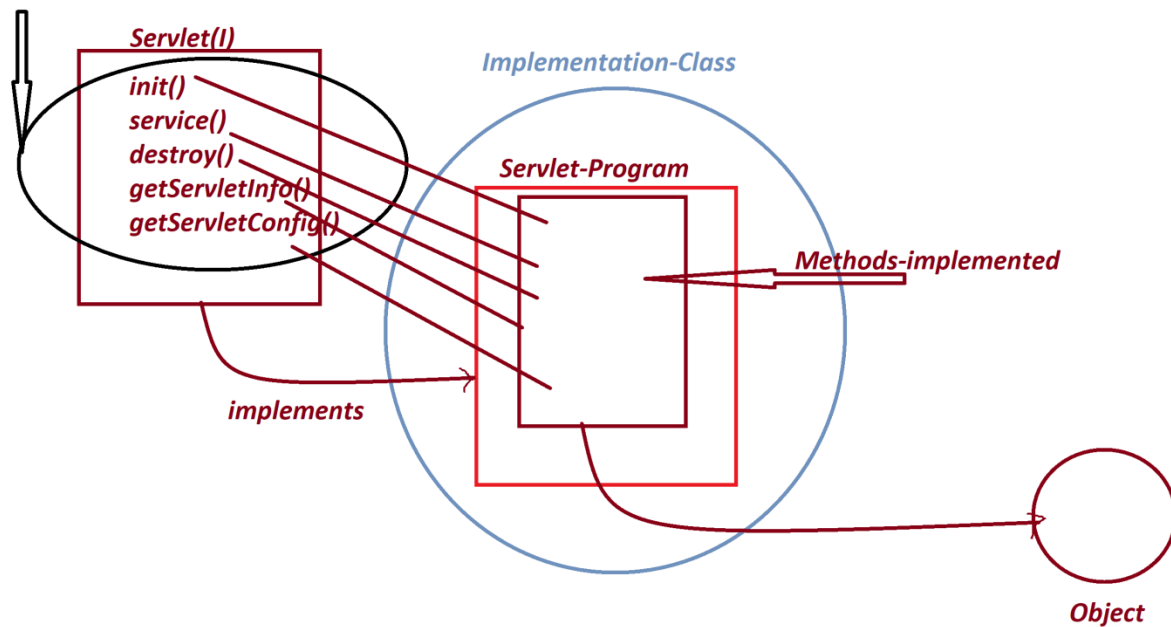
=>Server will execute the following Life-Cycle methods automatically:

(i)init()

(ii)service()

(iii)destroy()

AbstractMethoda



***imp**

Construct Servlet Application(Web Application) using IDE Eclipse:

**step-1 : Open IDE Eclipse,while opening name the WorkSpace and
click 'Launch'**

step-2 : Create 'Dynamic Web Project'

**Click on File->New->Project->Web->select 'Dynamic Web Project' and
click 'Next'->name the project and click 'Finish'**

step-3 : Add 'servlet-api.jar' file to project

RightClick on Project->Build path->Configure Build path->Libraries->

**select 'Classpath' and click 'Add External Jars'-->Browse and select
'servlet-api.jar' from "lib" folder of "Tomcat"-->Open->Apply->
'Apply and Close'**

step-4 : Add server(Tomcat) to IDE Eclipse(One time process)

Click on 'servers'-->click 'Click this link to create New Server'-->

selcet the server(tomcat-server) and click 'Next'-->

Browse and select 'Tomcat Installation Directory'-->select Folder-->

click 'Finish'

step-5 : Construct HTML file to read input to Servlet-program

RightClick on webapp->New->HTML file->name the file and click

'Finish'

employee.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="dis" method="post">
EmployeeId:<input type="text" name="eid"><br>
EmployeeName:<input type="text" name="ename"><br>
EmployeeDesg:<input type="text" name="edesg"><br>
<input type="submit" value="Display">
</form>
</body>
</html>
```

step-6 : Create package in 'src/main/java' of Java Resources

step-7 : Create Servlet-Program in package

DisplayServlet.java

package test;

import java.io.*;

import jakarta.servlet.*;

import jakarta.servlet.annotation.*;

@WebServlet("/dis")

public class DisplayServlet implements Servlet

{

public void init(ServletConfig scf) throws ServletException

{

//NoCode

}

public void service(ServletRequest req,ServletResponse res) throws

ServletException,IOException

{

String eId = req.getParameter("eid");

String eName = req.getParameter("ename");

String eDesg = req.getParameter("edesg");

PrintWriter pw = res.getWriter();

res.setContentType("text/html");

pw.println("====EmployeeDetails====");

**pw.println("
Emp-Id:"+eId);**

**pw.println("
Emp-Name:"+eName);**

```

        pw.println("<br>Emp-Desg:"+eDesg);
    }

    public void destroy()
    {
        //NoCode
    }

    public String getServletInfo()
    {
        return "Servlet displaying Employee details";
    }

    public ServletConfig getServletConfig()
    {
        return this.getServletConfig();
    }
}

```

step-8 : Create 'web.xml' in 'WEB-INF'(Mapping file)

RightClick on WEB-INF->New->Other->XML->XML file->name the file as

'web.xml' and click 'Finish'

web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app>
    <welcome-file-list>
        <welcome-file>employee.html</welcome-file>
    </welcome-file-list>
</web-app>

```

step-9 : Execute the Application

**RightClick on Project->Run AS->Run On Server->select the Server and
click 'Finish'**

`http://localhost:8082/App_Servlet_1/`

