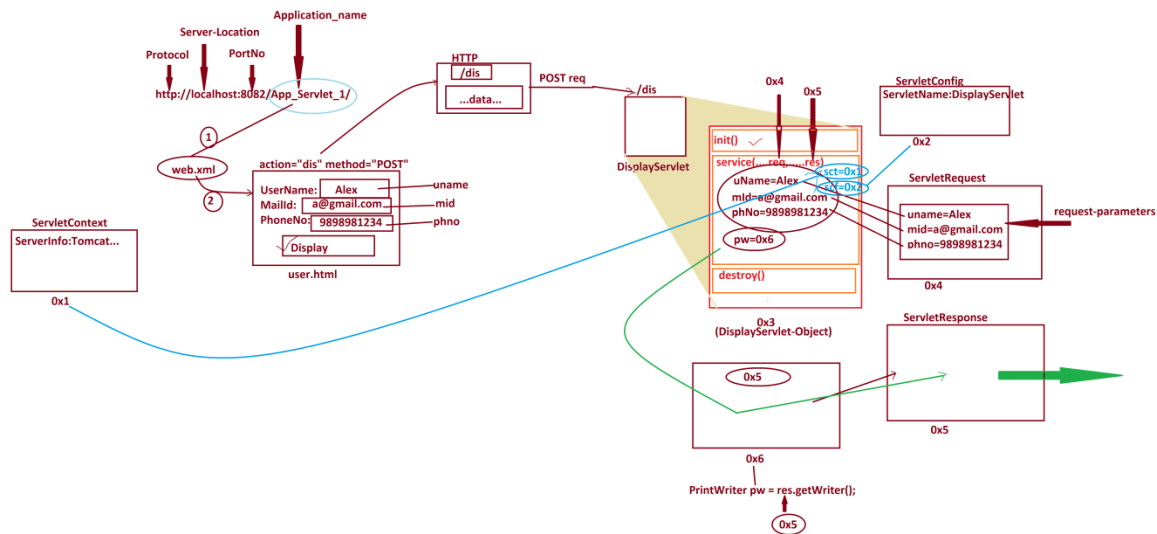*Dt : 6/2/2025*

Diagram:(Demonstrating Execution flow of Servlet Application)

ServletContext:

  =>'ServletContext' is an interface from 'jakarta.servlet' package and which is instantiated

   automatically when the Web-App is deployed into Server.

  =>This ServletContext-Object is recored with Server-Information.

  =>we use getServletContext()-method from ServletRequest to access the reference of

   ServletContext-Object.

  Method Signature:

  public abstract jakarta.servlet.ServletContext getServletContext();

  syntax and Ex:

  ServletContext sct = req.getServletContext();

ServletConfig:

=>'ServletConfig' is an interface from 'jakarta.servlet' package and which is instantiated

   automatically when the Servlet-Program loaded for execution.

=>This ServletConfig-Object is recorded with Servlet-name.

=>we use getServletConfig()-method to access the reference of ServletConfig-Object

Method Signature:

public abstract jakarta.servlet.ServletConfig getServletConfig();

syntax and Ex:

ServletConfig scf = this.getServletConfig();

Note:

 =>After ServletConfig-Object creation,the Servlet-program will be instantiated

   automatically.

 =>After Servlet-Program instantiation,the execution-controls will identify the following

   Life-Cycle methods and they are executed automatically:

     (i)init()

     (ii)service()

     (iii)destroy()

ServletRequest:

 =>'ServletRequest' is an interface from 'jakarta.servlet' package and which is instantiated

   automatically while service()-method execution.

 =>This ServletRequest-Object will hold the data submitted from HTML-form.

ServletResponse:

 =>'ServletResponse' is an interface from 'jakarta.servlet' package and which is also

instantiated automatically while service()-method execution.

=>ServletResponse-Object will hold the data which we are sending as response.

faq:

define getParameter()-method?

=>getParameter()-method is from ServletRequest and which is used to access para-value

from request object.

Method Signature:

public abstract java.lang.String getParameter(java.lang.String);

syntax and ex:

String uName = req.getParameter("uname");

faq:

define getWriter()-method?

=>getWriter()-method is from ServletResponse and which is used to create Object for

'java.io.PrintWriter' Class.

=>This 'PrintWriter' object will hold the reference of ServletResponse Object .

Method Signature of getWriter():

public abstract java.io.PrintWriter getWriter() throws java.io.IOException;

syntax and Ex:

PrintWriter pw = res.getWriter();

faq:

define setContentType()-method?

=>setContentType()-method is from ServletResponse and which specify the type of data

we are adding to the response.

Method Signature:

public abstract void setContentType(java.lang.String);

syntax:

res.setContentType("text/html");

Assignment-1:

Construct Servlet Application to read and display Product details.

(Input using HTML form)

Assignment-2:

Construct Servlet Application to read and display BookDetails.

(Input Using HTML form)