ASSIGNMENT 5

Aim : Validation using Servelet

Problem Statement : Understand servelet life cycle, create login page and apply proper validations with appropriate messages using doGet () / doPost () methods.

Theory:

1) **What is servelet ?**
   - Servelets are like applets but on server side. A server is any class that implements the javax. servelet . servelet interface
   - It is a simple java class, which is dynamically loaded on a web server and enhances the functionality of a web server.
   - Types of Servelets :
     1) Generic Servelet   2) HTTP servelet
        - javax. servelet (package)   - javax. servelet . http (package)
        - extends javax.servelet. Servelet   - extends javax.servelet. HTTPservelt
        - service method   - doGet (), doPost ()....
   - Life cycle of servelet :
   - The servelet is initialized by calling the init () method.
   - The servelet calls service () method to process a client's request
   - The servelet is terminated by calling the destroy () method
   - Finally, servelet is garbage collected by garbage collector of the JVM.

2) **Advantages of Servelet**
   - Better performance — because it creates a thread for each request, not process
   - Portablity — because it uses Java language
   - Robust — JVM manages servelets, so we don't need to worry about memory leak, garbage collection, etc.
   - Secure — because it uses Java language
   - Extensible — Servelets written in Java, can be extended and poly-morphed into the object that suits the user requirements.

3) <u>Validations using doGet() /doPost() methods :</u>

<u>The doGet() Method :</u>
A GET request results from a normal request for a URL.
or from an HTML form that has no Method specified
and it should be handled by doGet() method.
Eg: public void doGet (HttpServletRequest request,
    HttpServletResponse response)
    throws ServletException , IO Exception
    {
        // servlet code
    }

<u>The doPost() Method :</u>
A POST request results from an HTML form that
specifically lists POST as the METHOD and it should
be handled by doPost() method
Eg: public void doPost (HttpServletRequest request,
    HttpServletResponse response)
    throws ServletException , IO Exception
    {
        // servlet code
    }

<u>conclusion :</u> I studied the concepts of JAVA Servelets and
servelet life cycle. I also implemented & treated a
login page using servelets and doGet()/ doPost()
methods.