Lab 2 – Servlets

Steps to run tomcat server

1. Download Tomcat 9/10 and unzip it in any location
2. Navigate to conf/server.xml -> configure baseDir & port number
3. Navigate to conf/tomcat-user.xml -> users configured for all web applications
4. Create below environment variables
   1. CATALINA\_HOME - <tomcat dir>
   2. TOMCAT\_HOME - <tomcat dir>
   3. JAVA\_HOME - <path to jdk>
5. Navigate to bin & run startup.bat
6. Server running

Compiling the HelloServlet program

1. Navigate to .java file
2. Open cmd & run below command

javac -cp C:\Users\18573\Desktop\tomcat\apache-tomcat-10.0.27\lib\servlet-api.jar HelloServlet.java

Create an application

1. Navigate to tomcat base directory
2. Navigate to webapps & create a new folder as lab2
3. Navigate to lab2 & create below files & folders
   1. /lab2/WEB-INF/classes
   2. /lab2/WEB-INF/web.xml
4. Move .class file to /lab2/WEB-INF/classes/.class

Create mapping

1. Add contents to web.xml file

<web-app>

    <servlet>

        <servlet-name>helloservlet</servlet-name>

        <servlet-class>HelloServlet</servlet-class>

    </servlet>

    <servlet-mapping>

        <servlet-name>helloservlet</servlet-name>

        <url-pattern>/hello.htm</url-pattern>

    </servlet-mapping>

</web-app>

Running the application

1. Restart the tomcat server
2. Hit below url

http://localhost:8080/lab2/hello.htm