

Exp. No : 04

Date : / /2024

Web Application With Maven

AIM :

To design a Maven-based web application that displays event details and allows user registration using HTML and Servlets.

PROCEDURE :

1. Create a Maven Web Application:

- Generate the Maven web application structure:

```
mvn archetype:generate -DgroupId=com.example -DartifactId=my-webapp -  
DarchetypeArtifactId=maven- Darchetype-webapp -DinteractiveMode=false
```

2. *Add HTML Pages*:

- Create index.html for displaying event details and linking to the registration form.
- Create Register.html to implement the registration form.

3. *Develop a Servlet*:

- Implement a servlet class (HelloServlet) to process requests and respond with dynamic content.

4. *Build and Deploy*:

- Build the project using Maven:

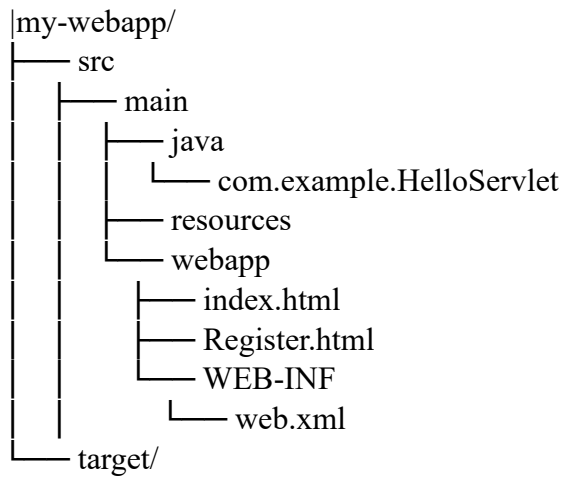
```
$ mvn clean package
```

- Deploy the .war file to a servlet container such as Apache Tomcat.

5. Access the Web Application:

- Open a web browser and navigate to:
- Events Page: <http://localhost:8080/my-webapp/index.html>
- Registration Form: <http://localhost:8080/my-webapp/Register.html>
- Servlet Response: <http://localhost:8080/my-webapp/hello>

Directory Structure:



Program:

1. Index.html: Event Details Page

```
<!DOCTYPE html>
<html>
<head>
  <title>Events</title>
  <link rel="icon" href="images/img1.jpeg">
</head>
<body bgcolor="black" style="color: white;">
  <h1 align="center">Upcoming Events &#x1F4C6</h1>
  <h4 align="center">Don't miss any of your events. Here are the important events you have registered for!</h4>
  <hr>
  <p align="center"></p>
  <h1 align="center">Photo Gallery Event</h1>
  <h2 align="center">Free Entry | Free Food | Pets are Not Allowed</h2>
  <p align="center"></p>
  <p align="center"><a href="Register.html">Register Now!</a></p>
  <h1 align="center">Contact</h1>
  <h2 align="center">+91 65926526899 | eventcollab@gmail.com</h2>
  <h3 align="center">9th Street Avenue Park, Salem, 636304</h3>
</body>
</html>
```

3. Register.html: Registration Form

```
<!DOCTYPE html>
<html>
<head>
  <title>Register Form</title>
  <style>
    label {
      color: rgb(16, 23, 16);
      font-family: Cambria, Georgia, serif;
    }
  </style>
</head>
```

```

</style>
</head>
<body background="images/earth.png">
  <h1 align="center" style="color: blue;">Registration Form</h1>
  <center>
    <fieldset>
      <legend><h2 style="color: rgb(188, 79, 192)">Register</h2></legend>
      <form>
        <table>
          <tr>
            <td><label>NAME:</label></td>
            <td><input type="text" placeholder="Your name" style="background: lightblue;"></td>
          </tr>
          <tr>
            <td><label>PASSWORD:</label></td>
            <td><input type="password" style="background: lightblue;"></td>
          </tr>
          <tr>
            <td><label>DOB:</label></td>
            <td><input type="date" style="background: lightblue;"></td>
          </tr>
          <tr>
            <td><label>ADDRESS:</label></td>
            <td><textarea cols="40" rows="5" style="background: lightblue;"></textarea></td>
          </tr>
          <tr>
            <td><label>GENDER:</label></td>
            <td>
              <input type="radio" name="gender">Male
              <input type="radio" name="gender">Female
            </td>
          </tr>
          <tr>
            <td><label>COURSE:</label></td>
            <td>
              <select style="background: lightblue;">
                <option value="1">DLD</option>
                <option value="2">DSA</option>
                <option value="3">FDS</option>
              </select>
            </td>
          </tr>
          <tr>
            <td><label>FILES:</label></td>
            <td><input type="file" style="background: lightblue;"></td>
          </tr>
          <tr>
            <td colspan="2">
              <button style="background: lightblue;">SUBMIT</button>
              <button style="background: lightblue;">RESET</button>
            </td>
          </tr>
        </table>
      </form>
    </fieldset>
  </center>

```

```

        </table>
    </form>
</fieldset>
</center>
</body>
</html>

```

4. HelloServlet.java: Servlet Class

```

package com.example;
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

@WebServlet("/hello")
public class HelloServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException,
    IOException {
        resp.setContentType("text/html");
        resp.getWriter().println("<h1>Welcome to the Event Web Application!</h1>");
    }
}

```

5. web.xml: Servlet Mapping

```

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd"
    version="3.1">
    <servlet>
        <servlet-name>HelloServlet</servlet-name>
        <servlet-class>com.example.HelloServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>HelloServlet</servlet-name>
        <url-pattern>/hello</url-pattern>
    </servlet-mapping>
</web-app>

```

Preparation	
Observation	
Output	
Viva	
Record	
Total	

RESULT:

Hence the Web application created using maven servelets has been implemented and the output has been verified successfully.

OUTPUT:

Registration Form

Register

NAME:

Your name

PASSWORD:

DOB:

dd-mm-yyyy

ADDRESS:

GENDER:

☐ Male

☐ Female

COURSE:

DLD

FILES:

Choose File

No file chosen

SUBMIT

RESET