

Ex.no:7

Date:19/4/25

7. Write a servlet to program to store a user's preferences (like theme or language) using cookies. Retrieve and display these preferences on subsequent visits.

Aim:

To Write a Servlet to demonstrate the difference between HTTP GET and POST
By creating a form and handling requests accordingly .

PROGRAM

Cookie.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form method="post" action="http://localhost:7050/231801135Ramya/SetCookie">
  <p>
    <label>Theme: </label>
    <input type="text" name="theme" required>
  </p>
  <p>
    <label>Language: </label><br>
    <input type="radio" name="language" value="English" required> English<br>
    <input type="radio" name="language" value="Tamil"> Tamil<br>
    <input type="radio" name="language" value="Hindi"> Hindi<br>
  </p>
```

2116231801135

```

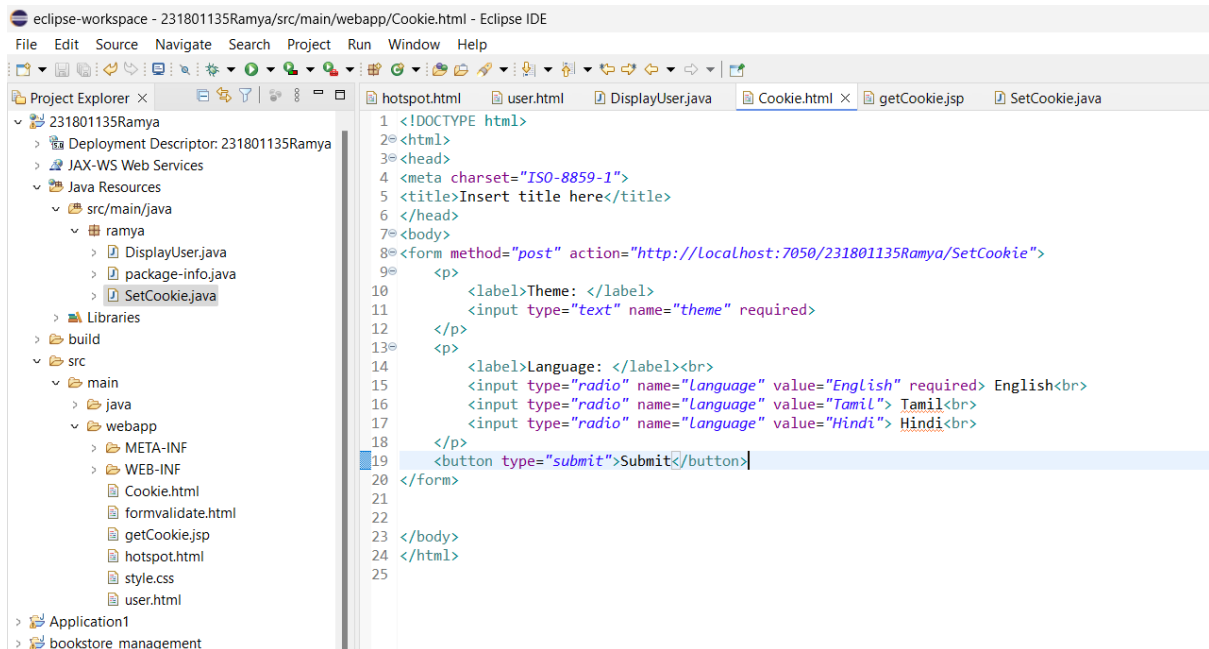
        <button type="submit">Submit</button>

</form>

</body>

</html>

```



getCookie.jsp

```

<% @ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

```

```

<!DOCTYPE html>

```

```

<html>

```

```

<head>

```

```

    <meta charset="ISO-8859-1">

```

```

    <title>Get Cookie</title>

```

```

</head>

```

```

<body>

```

```

<%

```

```

    Cookie[] cookies = request.getCookies();

```

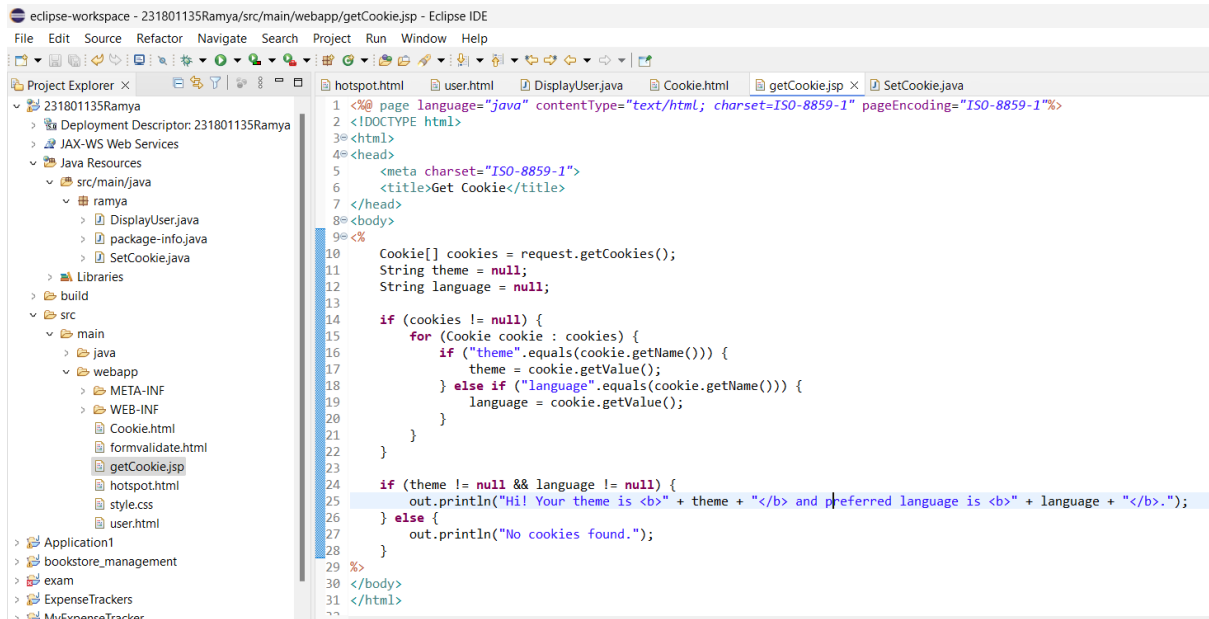
```

    String theme = null;

```

2116231801135

```
String language = null;  
  
if (cookies != null) {  
    for (Cookie cookie : cookies) {  
        if ("theme".equals(cookie.getName())) {  
            theme = cookie.getValue();  
        } else if ("language".equals(cookie.getName())) {  
            language = cookie.getValue();  
        }  
    }  
}  
  
if (theme != null && language != null) {  
    out.println("Hi! Your theme is <b>" + theme + "</b> and preferred language is <b>" +  
language + "</b>.");  
} else {  
    out.println("No cookies found.");  
}  
  
%>  
</body>  
</html>
```



SetCookie.java

package ramya;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.Cookie;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

/**

* Servlet implementation class SetCookie

*/

@WebServlet("/SetCookie")

public class SetCookie extends HttpServlet {

private static final long serialVersionUID = 1L;

2116231801135

```

/**
 * @see HttpServlet#HttpServlet()
 */
public SetCookie() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    response.getWriter().append("Served at: ").append(request.getContextPath());
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    String theme = request.getParameter("theme");
    String lang = request.getParameter("language");

    // Check if values match specific criteria
    if ("nature".equalsIgnoreCase(theme) && "tamil".equalsIgnoreCase(lang)) {
        // Create cookie with proper name and value
        Cookie themeCookie = new Cookie("theme", theme);
        themeCookie.setMaxAge(60 * 60); // 1 hour
        themeCookie.setPath("/");
        response.addCookie(themeCookie);
    }
}

```

```

Cookie languageCookie = new Cookie("language", lang);

languageCookie.setMaxAge(60 * 60);

languageCookie.setPath("/");

response.addCookie(languageCookie);


response.sendRedirect("getCookie.jsp");

} else {

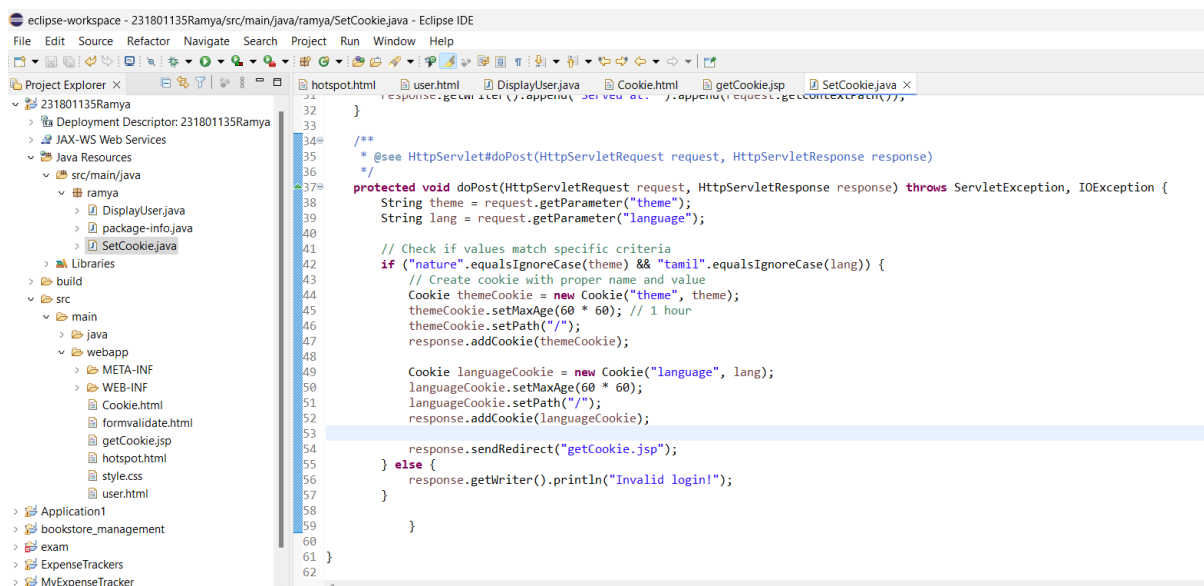
    response.getWriter().println("Invalid login!");

}

}

}

```



OUTPUT:

The screenshot shows a web browser window with the address bar displaying `localhost:7050/231801135Ramya/Cookie.html`. The page content includes a form with the following elements:

- A label "Theme:" followed by a text input field containing the value "nature".
- A label "Language:" followed by three radio button options: "English", "Tamil" (which is selected), and "Hindi".
- A "Submit" button located below the language options.

The screenshot shows a web browser window with the address bar displaying `localhost:7050/231801135Ramya/getCookie.jsp`. The page content displays the message: "Hi! Your theme is **nature** and preferred language is **Tamil**."

The "Application" tab is open, showing the "Cookies" section for the domain `http://localhost:7050`. The table below lists the cookies:

Name	Value	Dom...	Path	Expir...	Size	Http...	Secure	Same...	Partit...	Cross...	Priority
JSESSIONID	FD4CC4DAD96D67AE8D4A78A54B0656...	local...	/231...	Sessi...	42	✓					Medi...
language	Tamil	local...	/	2025...	13						Medi...
theme	nature	local...	/	2025...	11						Medi...

Result:

Thus Write a servlet to program to store a user's preferences(like theme or language) using cookies.Retrive and display these preferences on subsequent visits.

