

Cookies

HTML withouth cookies:



HTML with cookies:



My code:

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.*;
import javax.servlet.http.*;
```

```
public class MiServlet extends HttpServlet {
```

```
    public void doGet(HttpServletRequest petition, HttpServletResponse respuesta) throws
    ServletException, IOException {
```

```
        Cookie[] misgalletas = petition.getCookies();
```

```
Cookie migalleta1, migalleta2, migalleta3;
```

```
if (misgalletas == null) {
```

```
    // If no cookies exist, initialize them
```

```
    migalleta1 = new Cookie("contador1", "0");
```

```
    migalleta2 = new Cookie("contador2", "14");
```

```
    migalleta3 = new Cookie("contador3", "35");
```

```
    // Set the cookies to expire in 1 minute
```

```
    migalleta1.setMaxAge(60);
```

```
    migalleta2.setMaxAge(120);
```

```
    migalleta3.setMaxAge(180);
```

```
    // Add cookies to the response
```

```
    respuesta.addCookie(migalleta1);
```

```
    respuesta.addCookie(migalleta2);
```

```
    respuesta.addCookie(migalleta3);
```

```
} else {
```

```
    // If cookies exist, retrieve them
```

```
    migalleta1 = getCookie("contador1", misgalletas);
```

```
    migalleta2 = getCookie("contador2", misgalletas);
```

```
    migalleta3 = getCookie("contador3", misgalletas);
```

```
}
```

```
// Convert the cookie values to integers, increment them, and update the cookies
```

```
int contador1 = Integer.parseInt(migalleta1.getValue());
```

```
int contador2 = Integer.parseInt(migalleta2.getValue());
```

```
int contador3 = Integer.parseInt(migalleta3.getValue());
```

```
// Increment the counters
migalleta1.setValue("" + (contador1 + 1));
migalleta2.setValue("" + (contador2 + 1));
migalleta3.setValue("" + (contador3 + 1));

// Set cookies again with updated values
respuesta.addCookie(migalleta1);
respuesta.addCookie(migalleta2);
respuesta.addCookie(migalleta3);

// Set content type and write the response
respuesta.setContentType("text/html");
PrintWriter salida = respuesta.getWriter();
String titulo = "Contadores";
salida.println("<TITLE>" + titulo + "</TITLE>\n<BODY>");
salida.println("<H1 ALIGN=CENTER>" + titulo + "</H1>\n\n");

// Display the values of the three counters
salida.println("Contador 1: " + contador1 + "<br>");
salida.println("Contador 2: " + contador2 + "<br>");
salida.println("Contador 3: " + contador3 + "<br>");

// Display cookie names and values
salida.println("<h2>Cookies Received:</h2>");
if (misgalletas != null) {
    for (Cookie cookie : misgalletas) {
        salida.println("Cookie Name: " + cookie.getName() + ", Value: " + cookie.getValue() +
"<br>");
    }
} else {
```

```
        salida.println("No cookies found.<br>");  
    }
```

```
    salida.println("</BODY></HTML>");  
}
```

```
// Helper function to retrieve a specific cookie by name
```

```
private Cookie getCookie(String name, Cookie[] cookies) {
```

```
    for (Cookie cookie : cookies) {
```

```
        if (cookie.getName().equals(name)) {
```

```
            return cookie; // Return the cookie if found
```

```
        }
```

```
    }
```

```
    return null; // Return null if not found
```

```
}
```

```
}
```