Assignment 4

Servlet program to track multiple users

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Done By:

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Aim: To write a servlet program to track multiple users. Set a time limit for a user's session. Compare the session id's before and after the session expiration.

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Program Code:

GetServlet.java:

```java
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
public class GetServlet extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
          try{
             int clickCount;
             response.setContentType("text/html");
             PrintWriter pw= response.getWriter();
             //get the session, which contains user-specific data
             HttpSession session = request.getSession();
             session.setMaxInactiveInterval(60);
             if(session.getAttribute("clickCount") != null){
             //we've already stored the clickCountin a previous request, so get it

             clickCount= (int) session.getAttribute("clickCount");
             }
             else{
             //we haven't stored the clickCountfor this user yet, start it at zero
```

```java
            clickCount= 0;
            }
            clickCount++;
            //store the new clickCountin the session
            session.setAttribute("clickCount", clickCount);
            //output the sessionID, clickCountfor this user
            pw.println(" Session Id:"+session.getId()+"<br>");
            pw.println("<h1>You clicked the button "+ clickCount+ " times.</h1
>");
            }
            catch(Exception e){System.out.println(e);}
    }
}
```

Index.html:

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Employee form</title>
</head>

<body>
    <form name="Form1" action="http://localhost:8080/assignment4/GetMtd">
        <input type="submit" value="Submit" />
    </form>
</body>

</html>
```

Web.xml:

```xml
<web-app>
<servlet>
<servlet-name>GetMtd</servlet-name>
<servlet-class>GetServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>GetMtd</servlet-name>
<url-pattern>/GetMtd</url-pattern>
</servlet-mapping>
</web-app>
```
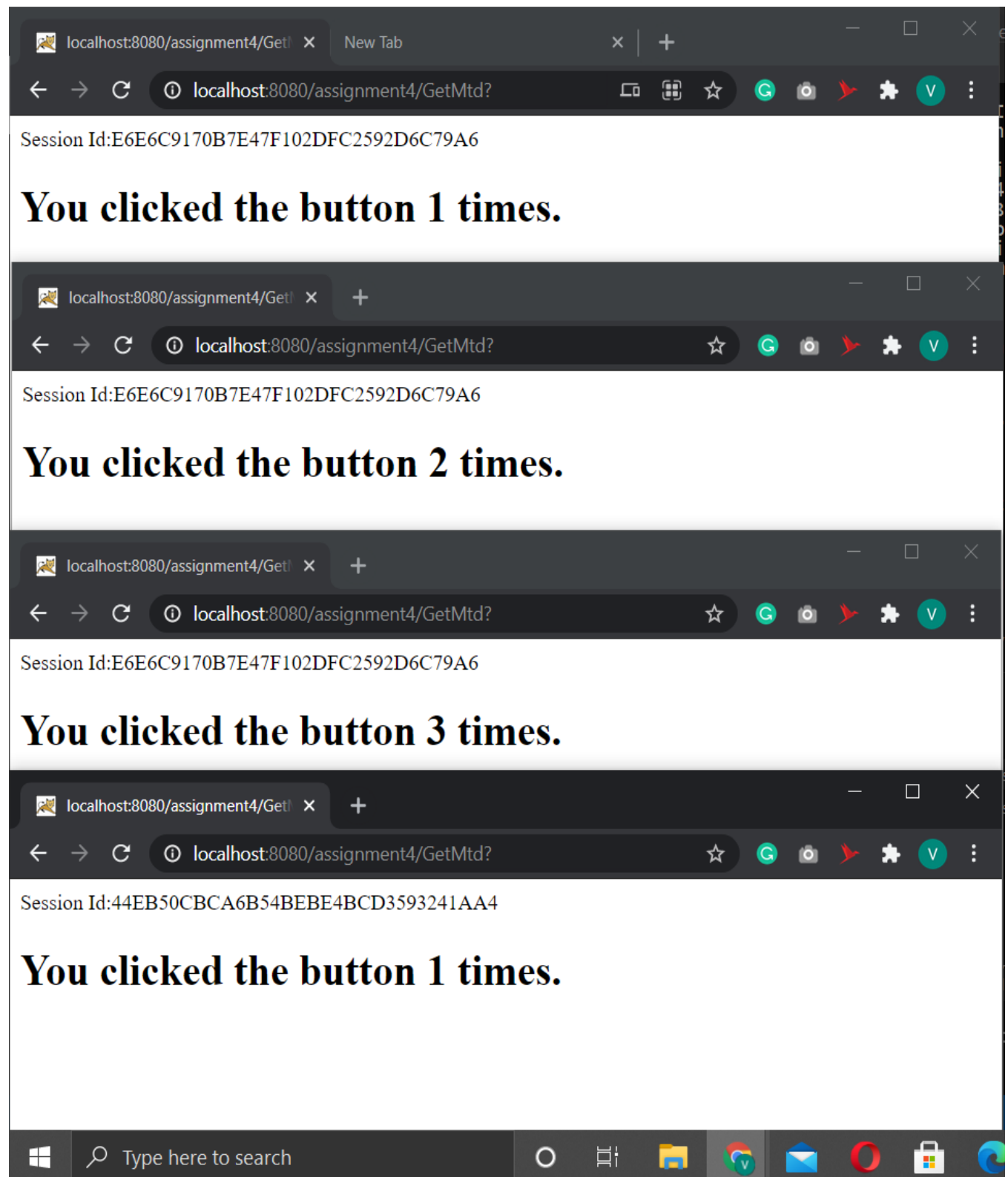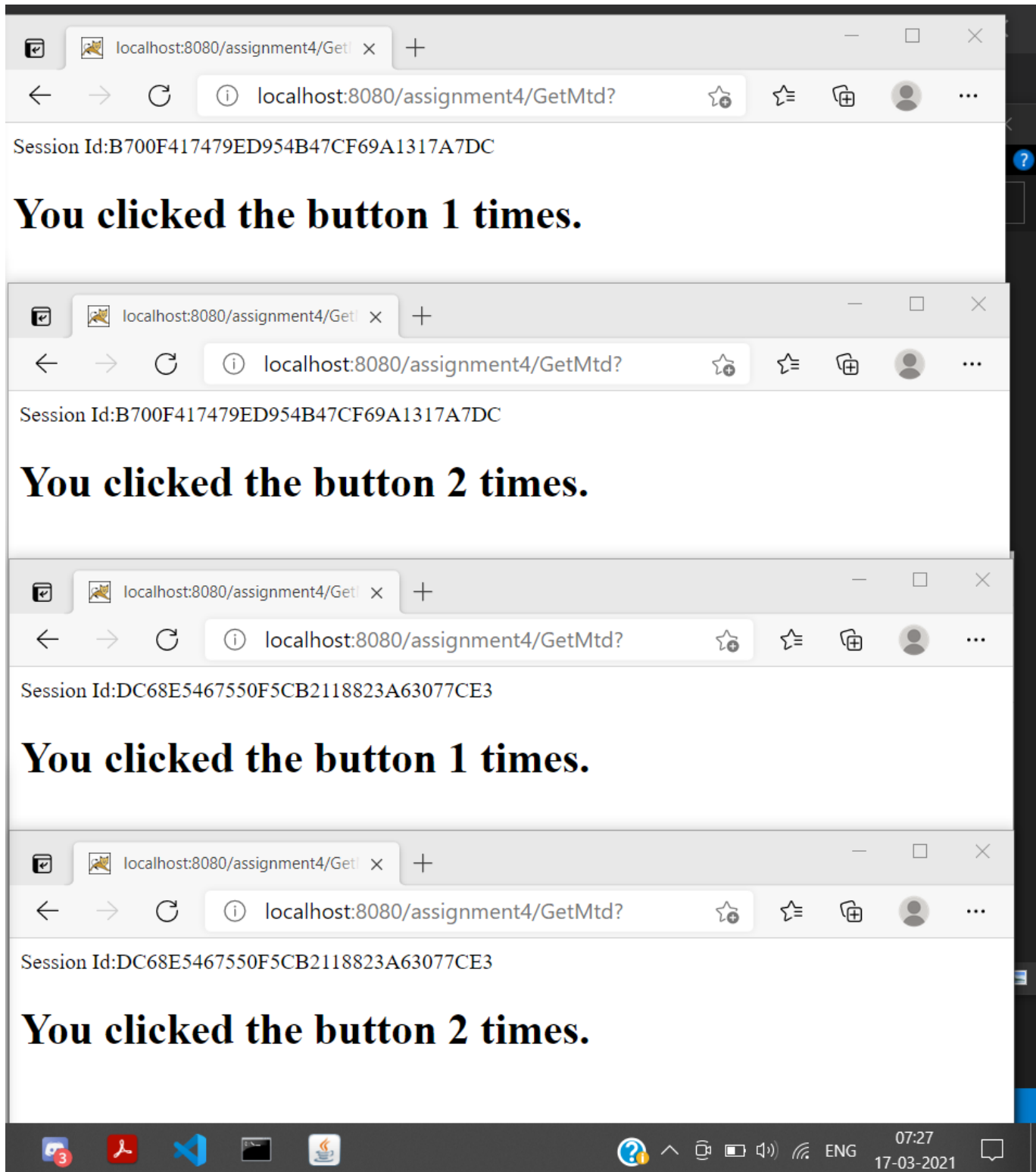
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Output Snapshot:

Browser 1: first 2 in first 60 seconds.3rd window after 60 seconds:

localhost:8080/assignment4/GetI ✕   New Tab   ✕ | +

← → C   ⓘ localhost:8080/assignment4/GetMtd?

Session Id:E6E6C9170B7E47F102DFC2592D6C79A6

You clicked the button 1 times.

localhost:8080/assignment4/GetI ✕   +

← → C   ⓘ localhost:8080/assignment4/GetMtd?

Session Id:E6E6C9170B7E47F102DFC2592D6C79A6

You clicked the button 2 times.

localhost:8080/assignment4/GetI ✕   +

← → C   ⓘ localhost:8080/assignment4/GetMtd?

Session Id:E6E6C9170B7E47F102DFC2592D6C79A6

You clicked the button 3 times.

localhost:8080/assignment4/GetI ✕   +

← → C   ⓘ localhost:8080/assignment4/GetMtd?

Session Id:44EB50CBCA6B54BEBE4BCD3593241AA4

You clicked the button 1 times.

Type here to search

Browser 2:

Session Id:B700F417479ED954B47CF69A1317A7DC

You clicked the button 1 times.

Session Id:B700F417479ED954B47CF69A1317A7DC

You clicked the button 2 times.

Session Id:DC68E5467550F5CB2118823A63077CE3

You clicked the button 1 times.

Session Id:DC68E5467550F5CB2118823A63077CE3

You clicked the button 2 times.