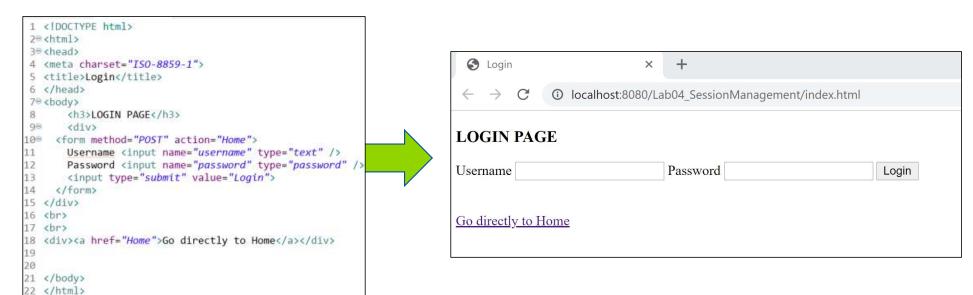
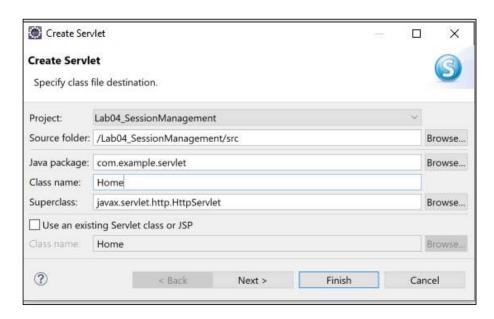
- Import the Lab04_HttpSession_STARTER project
- Rename the project to "Lab04_HttpSession"
- Examine the index.html file under WebContent
 - This is our login page
 - Note the method (POST) and the action (Home)



Create a Home Servlet

- · Within the Project Explorer right click on the Java Resources, select New->Servlet
- Within the Create Servlet window enter a Java package name of "com.example.servlet", enter a Class name of "Home", and then select "Finish"



Edit the Home Servlet file and modify the doPost method to handle the login

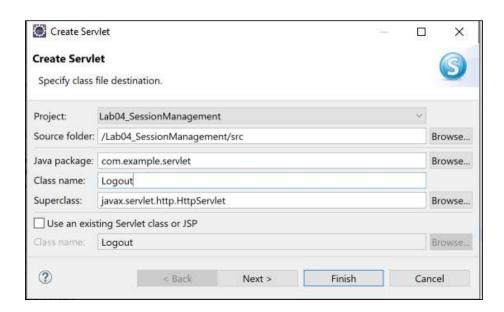
```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    String username = request.getParameter("username");
    String password = request.getParameter("password");
    if (username != null || password != null) {
        if (!username.equals("root") || !password.equals("pa$$word")) {
            RequestDispatcher dispatcher = getServletContext()
                   .getRequestDispatcher("/");
            dispatcher.forward(request, response);
            return;
        }
   // get a session, create new one if necessary
   HttpSession session = request.getSession();
    // store the username in the session
    session.setAttribute("username", username);
    doGet( request, response);
```

Edit the Home Servlet file and modify the doGet method to read the username and output

```
protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
   // get session (this time, the existing one)
   HttpSession session = request.getSession();
   // retrieve user from session
   String username = (String)session.getAttribute("username");
   if (username == null) { // username not stored go back to login
       RequestDispatcher dispatcher = getServletContext()
           .getRequestDispatcher("/");
       dispatcher.forward(request, response);
       return;
   response.setContentType("text/html");
   PrintWriter out = response.getWriter();
   out.println("<!DOCTYPE html>\n<html>\n" +
   "<head><title>Home</title></head><body>\n" +
   "<h3>HOME PAGE</h3><br><div>Welcome <b>" +
  username + "</b></div>\n" +
   "<div><a href='Logout'>Logout</a></div>\n" + "</body></html>");
```

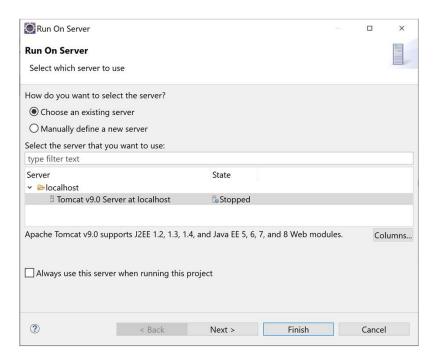
Create a Logout Servlet

- Within the Project Explorer right click on the Java Resources, select New->Servlet
- Within the Create Servlet window enter a Java package name of "com.ntier", enter a Class name of "Logout", and then select "Finish"

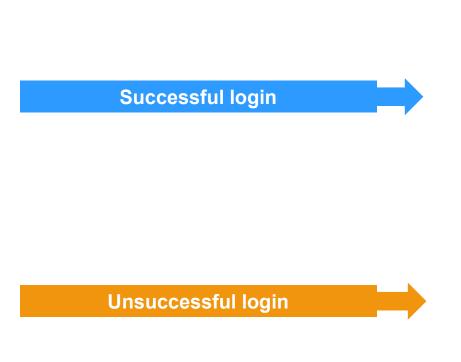


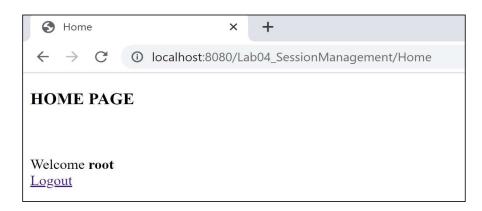
Edit the Logout Servlet file and modify the doGet method to invalidate the session

- Use an external Web Browser (if not already configured)
 - On the menu bar select Window->Web Browser -> Chrome if it exists or anything other than Internal Web Browser ¹
- Run the index.html on Tomcat
 - Within the Project Explorer window, right click on the index.html file and select Run->Run on Server
 - Confirm that Tomcat v9.0 Server at localhost is selected and then select "Finish"



Confirm that the Home Servlet displays the Home page after successfully logging in and otherwise displays the login page (user = root, password = pa\$\$word)





3 Login	×	+			
← → G @	→ C ① localhost:8080/Lab04_SessionManagement/index.html				
LOGIN PAGE Username Go directly to Hom	ne	Password		Login	

