

Topic 3 – Containers, Filters and Sessions – Homework

This document defines homework assignments from the “Java Web Development” course. Please submit the homework as single **zip / 7z** archive holding the source code of all below described problems.

Problem 1 – Dynamic Web Project

- Create new dynamic web project.
- Deploy the project to the Tomcat server.
- Use the created project as base for the remaining of the homework.

Problem 2 – HomePage (Servlet or JSP)

- Create new Home Page
- Print the following components:
 - Header with Title
 - Body containing Information about the current user (username taken from the session)
 - Footer with Project Name and Current Version
- Deploy the project and call the HomePage from the web browser

Problem 3 – Login Form (JSP)

- Create simple login form containing:
 - Username
 - Password
 - Submit

Problem 4 – Request Logger (Listener)

- Create new Listener class
- The listener should log (print in the console) information about servlet requests
 - IP address
 - Session ID
 - Request type (is it login attempt or normal request)
 - Date and time of the request (beginning)

Problem 5 – Security Filter

- Create new Filter class
- The filter should take username and password from the request
 - If they exists and are correct (compare them to some username and password in the code) – add the user to the session and redirect to the HomePage
 - If they do not exists – go to next condition check
- The filter should check if the user exists into the session
 - If yes – continue
 - If no – redirect to the Login form