Topic 2 – Servlets and Pages – 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.
- Include the JSTL library in the project.
- Deploy the project to the Tomcat server.
- Use the created project as base for the remaining of the homework.

Problem 2 – Hello World (Servlet)

- Create new Servlet class
- Print "Hello World" from the Servlet
- Deploy the project and call the servlet from the web browser

Problem 3 – Table (Servlet)

- Create new Servlet class
- Print table containing information regarding course schedule
    - Topic
    - Date
- Deploy the project and call the servlet from the web browser

Problem 3 – Form (Servlet)

- Create new Servlet class
- Print form (using html form tag) with the following input fields:
    - ID
    - Topic
    - Date
- Create the following buttons:
    - Submit
    - Cancel
- Deploy the project and call the servlet from the web browser

Problem 4 – Hello World (JSP)

- Create new JSP
- Print "Hello World" from the Servlet
- Deploy the project and call the servlet from the web browser

Problem 5 – Table (JSP)

- Create new JSP
- Print table containing information regarding course schedule

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- o   Topic
- o   Date
- Deploy the project and call the servlet from the web browser

Problem 6 – Form (JSP)

- Create new JSP
- Print form (using html form tag) with the following input fields:
    - o   ID
    - o   Topic
    - o   Date
- Create the following buttons:
    - o   Submit
    - o   Cancel
- Deploy the project and call the servlet from the web browser

Problem 7 – Page Tag (Tag)

- Create new Page tag
- The tag should contain:
    - o   Title (on top)
    - o   Content (not sent as attribute)
    - o   System version (on bottom)
    - o   Current date
- Current date should be connected to Boolean tag property – if set to true the date should be shown.

Problem 8 – Table using Page Tag (JSP)

- Create new JSP using the created Page tag
- Print table containing information regarding course schedule
    - o   Topic
    - o   Date
- Deploy the project and call the servlet from the web browser

Problem 9 – Custom Tag Library (tld)

- Create new TLD for custom tag library
- Include the Page tag in the library
- Create new Vertical Heading table tag
- Include the custom URI in the web.xml

Problem 10 – Table using Page tag and Custom TLD (JSP)

- Create new JSP using the created Page tag from the library (using the URI)
- Print table (vertical using the created tag) containing information regarding course schedule
    - o   Topic
    - o   Date
- Deploy the project and call the servlet from the web browser