

CSE-477 Web Engineering

Lab 2: Introduction to Java Server Pages (JSP)

1. Objective

Objective of this lab is to introduce students to basic features of JSP. Students will learn to develop basic JSP pages, use tags and deploy and run a JSP application using NetBeans. Most important aspect in this exercise is the application of core concepts of programming to a given problem.

2. Background

In this lab, you are going to see the basic structure of a JSP file. Most importantly, you will observe how presentation and application logic is mixed together in a JSP file. Although, mixing presentation and application logic together is not a good design decision, the purpose here is to show you the capabilities and features of JSP.

Background concepts

Scriptlets,

3. Required tasks

3.1 Display some basic information using HTML and a Java expression

Refer to ExJSP1-1.jsp page. It shows a mix of HTML and Java code. HTML is used to represent the information or content, while Java code is generating some dynamic content. Observe, how a single Java expression comprising of a function call has been used in this example. Particularly, focus on the structure of JSP file.

3.2 Declarations

Refer to ExJSP1_2.jsp page. It shows how one can define a class wide variables. Observe the behaviour of the application when accessed through different browsers.

3.3 Scriptlets

Refer to ExJSP1_3.jsp page. It shows how standard Java code can be used to create some dynamic content.

3.4 Exercise

Now create a page in which you declare a string array “names” of size 4. Then assign some string values to this array. Generate a table dynamically (refer to 3.3) showing the contents of the array a border size 1 in the following format :

Ser #	Names
1	Name one
2	Name two
4	Name three
5	Name four

4. Learning outcomes

By the end of this exercise, you will learn how to write a simple JSP application. At the end of this lab you would have known how you can generate some basic content dynamically with the help of Java code.