Web Applications Development

Java Web MVC Applications

JSP-Scripting Elements, JSP-EL,JSTL

1. JSP Scripting elements
   1. Explain the three different ways to include java code in JSP

Expressions <%= expression%>

Evaluated and inserted into the servlet’s output

Results in something like out.print(expression)

Scriptlets <% code %>

Called by service

Declarations

<%! code %>

Inserted verbatim into the body of the servet class

1. JSP-EL
2. Explain what is JSP-EL

EL means Expression Language

Makes it easy to access application data stored in JavaBeans components.

Allows you to create arithmetic and logic expressions

1. How can you display beans properties in JSP using JSP-EL

It needs to be a added a $ symbol plus curly braces with the name of the object inside

${emailer.smtpHost}

1. JSTL
   1. What is JSTL?

JavaServer Pages Standard Tag Library, is a component of the Java EE Web application development platform. Extends the JSP specification by adding a tag library of JSP tags for tasks, such as XML data processing, conditional execution, database access, loops and internalization.

* 1. Describe the categories of JSTL tags.

1. Core tags: Provide variable support, URL management, flow control,etc.
2. Function tags: Manipulation and string length
3. Formatting tags: Provide support for message formatting, number and data formatting.
4. XML tags: Flow control and transformation.
5. SQL tags: Proves SQL support.
   1. Explain the core tag c:forEach

Iteration tag used for repeating the nested body content for fixed number of times or over the collection

* 1. Install the jstl-1.2.jar library in your project in Netbeans.

1. Update EmailMVC web application:
   * 1. A method should be added in UserDAO to search all users in the database.
     2. Update the link of the “Display all Members” option, to call the servlet with the corresponding action.
     3. Update the servlet’s logic so when the “DisplayAll” action is selected, get the data of all users using the method defined in UserDAO and save the result in the request object.
     4. Generate a new jsp file to display all registered users using JSTL and JSP-EL.

Submit the zip file of the project, the war file, a document describing the concepts and the procedure done in the activity.