JSP Part 2

Objectives

- Understanding Standard Actions in JSP
- Introduction to Custom Tag, and The Need
- Creating Custom Tags

Standard Actions

Standard Actions

- Standard Actions are used to perform some specific task.
- All JSP standard actions follow a standard format:
 - fix:suffix>
- suffix is the actual name of the tag.

<jsp:useBean>

<jsp:useBean>

- Used to instantiate a Java Bean.
- Important Attributes:
 - id
 - class
 - type
 - scope

<jsp:useBean>

• E.g.

```
<jsp:useBean id="d1"
  class="java.util.Date"
scope="session"/>
```

<jsp:setProperty>

- Used to set properties of the bean.
- Syntax:

```
<jsp:setProperty name="<beanName>"
......Property-Details>...../>
```

<jsp:setProperty>

- Property Details:
 - property="*"
 - property=""
 - property=""property>" param="<param>"
 - property=""value="<value>"

<jsp:getProperty>

- Used to retrieve properties of the bean.
- Syntax:

```
<jsp:getProperty name="<beanName>"
    property="property>"/>
```

- <jsp:forward>
- <jsp:include>
- <jsp:param>

- <jsp:forward>
 - Used to forward the request to another page.
 - E.g.

```
<jsp:forward page="next.jsp"/>
```

- <jsp:include>
 - Used to include the resources in the existing JSP.
 - E.g.

```
<jsp:include page="next.jsp"/>
```

- <jsp:param>
 - Used in conjunction with either <forward> or <include>, to supply additional parameters.
 - E.g.

```
<jsp:param name=".." value=".."/>
```

- Sometimes, as per the application's requirement, it is necessary to create user defined tags.
- Such tags are called as custom tags.

- Need
 - <jsp:useBean> is capable of working upon only Value Objects.
 - To handle the processing, still developer is required to write a Java code inside scriptlets.

- Benefits:
 - Custom tags can be used to reduce the no of scriptlets in JSP.
 - Reusability
 - Can be used to handle bean processing.

• To create custom tags, developer has to provide the implementation of the tag using a Java class that is known as a Tag Handler Class.

- The tag handler class is to be created using a Tag API that belongs to a package javax.servlet.jsp.tagext.
- It mainly includes the following:
 - Tag
 - TagSupport

- Once the tag implementation class is defined, it is to be mapped with the name of the tag which can be accomplished by creating a TLD file.
- It is a mapping file that contains entries in the XML format.