

# Demo Project

Submitted By:

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# Project Overview

- Creating and saving a file on server.
- Developed using Struts2 Framework.
- MySQL database is used on backend.

# Project - View (CreateFile.jsp)

- Display a form on the browser.
- Struts tags are used for creating form elements.

```
<s:div id="resultDiv" theme="ajax">
  <div style="width: 300px;border-style: solid">
    <s:form action="ajaxsubmit" validate="true">
      <tr><td colspan="2" align="center">Create File<br/></td></tr>
      <tr><td colspan="2"><s:actionerror /><s:fielderror /></td></tr>
      <s:textfield name="filename" label="File Name"/>
      <s:select label="File Type" name="filetype" headerKey="1" headerValue="--
Please Select --" list="#{'jsp':'JSP','java':'JAVA','xml':'XML'}"/><br/>
      <s:submit theme="ajax" targets="resultDiv" notifyTopics="/ajaxsubmit"/>
    </s:form>
  </div>
</s:div>
```

# Action Class (createFile.java)

- Class with execute() method.
- Returns SUCCESS or ERROR
- Initialize the Model object

```
public String execute() throws Exception {
    if((createmodel.getFilename()).equals("")){
        addActionError("Invalid file name");
        return ERROR;
    }
    else if((createmodel.getFiletype()).equals("1")){
        addActionError("Invalid file type");
        return ERROR;
    }
    else{
        createmodel.create();
        createmodel.insertDB();
        createmodel.setFiles();
        return SUCCESS;
    }
}
```

# Model (createFileModel.java)

- Contains getter and setter methods.
- Also method to create and save files.

```
public String getFilename() {
    return filename;
}
public void setFilename(String filename) {
    this.filename = filename;
}
private String filetype = null;
public String getFiletype() {
    return filetype;
}
public void setFiletype(String filetype) {
    this.filetype = filetype;
}
```

# Struts.xml

- Configuration file extending struts-default.xml

```
<action name="createForm">
    <result>/pages/CreateFile.jsp</result>
</action>
<action name="ajaxsubmit" class="demo.createFile">
    <result name="input">/pages/CreateFile.jsp</result>
    <result name="error">/pages/CreateFile.jsp</result>
    <result>/pages/CreateFilesuccess.jsp</result>
</action>
```

# Web.xml

- Default configuration file.

```
<filter>
  <filter-name>struts2</filter-name>
  <filter-class>org.apache.struts2.dispatcher.FilterDispatcher
  </filter-class>
</filter>
<filter-mapping>
  <filter-name>struts2</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
```

# Application Flow

- Request for the URL  
<http://localhost:8080/demo/createForm.action>
- Look for the mapping in struts.xml and calls CreateFile.jsp
- On submit, an ajax call is sent and based on the mapping in struts.xml the action class createFile.java execute() method is called.
- Based on the execute method return, framework determines which page needs to be called based on the mapping in struts.xml.



# Demo

- Thank You