

Aspose Assignment

- 1- Firstly, I created Document.xlsx containing sample data of Employees.
- 2- Secondly, I created Mail-Merge-Template of Increment letter which will be later used for generating Increment letters of all Employees. I opened Microsoft word document and then under the **INSERT** option I used to select **Quick parts** option to select the field option and then from fields I selected **Merge Field** for each of attributes given in sample data e.g. Full Name, Email, Address, and Salary.
- 3- Then afterwards, I created a web app in eclipse, following the option File>New>Maven Project>Next>maven-archetype-webapp.
- 4- Using JSP and Html Tags I designed the **index.jsp** page as specified in assignment.
- 5- Then I added the FileUploadServlet.java file.
- 6- **FileUploadServlet** supports two main functionalities
 - Uploading the Excel file
 - Generating Increment Letters of Employees specified by Excel File.
- 7- **Generating Increment Letters :**

This task uses two main APIs of Aspose namely Aspose.Cells and Aspose.Words.

For using both APIs, I have added maven dependencies of both APIs to pom.xml file.

- **Aspose.Cells :**

Aspose.cells is used to read the the excel file and load data to ArrayList<Employee> (temporary data structure).

Maven Dependency:

```
<dependency>
  <groupId>com.aspose</groupId>
  <artifactId>aspose-cells</artifactId>
  <version>9.0.0</version>
</dependency>
```

- **Aspose.Words :**

Aspose.words is used to generate Increment letters of Employee specified by the excel file.

Maven Dependency:

```
<dependency>
  <groupId>com.aspose</groupId>
  <artifactId>aspose-words</artifactId>
  <version>16.8.0</version>
</dependency>
```

- 8- **Index.jsp** calls **FileUploadServlet.java** which performs reading of excel file and generate Increment letters of employees and then shift control to **response.jsp** which displays the list of employees to which you can send Increment Letters.

- 9- Then I added another servlet named **SendEmailLetters.java**, which makes use of **Aspose.Email** API to send Increment letter to list of employees.

- **Aspose.Email:**

This API is used to send Email with attachment of increment letter to list of employees.

Maven Dependency:

```
<dependency>
  <groupId>com.aspose</groupId>
  <artifactId>aspose-email</artifactId>
  <version>6.9.0</version>
</dependency>
```

10- How to Run Project :

- Deploy project on any server. I have used apache tomcat for that purpose.
- Then open browser, and type **localhost:8080/AssposeEMAIL** and press enter. This will take you to **index.jsp** Page. And when you press upload button, it will take you to **response.jsp**, uploading the selected Excel File and Generating Increment letters for the specified list of employees and route changes to **localhost:8080/AssposeEMAIL/upload**.
- Now at **response.jsp** when you press **Send Increment Letters** button, it will send the email containing increment letters to list of specified employees and route changes to **localhost:8080/AssposeEMAIL/sendEmail**, returning **emailSuccess.jsp** in response which prints **Email Sent Successfully** message on the loaded page.