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 excel file and load data to ArrayList<Employee> (temporary data structure).

Maven Dependency:

• Aspose.Words:

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

Maven 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 jetty server for that purpose.

As per requirement this time I have used Maven for Project Building and automation. I have used maven plugin for jetty server as well, so that I can run project by simple command "mvn jetty:run".

Maven Plugin:

- Then open browser, and type localhost:8080/ 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/ 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/sendEmail**, returning **emailSuccess.jsp** in response which prints **Email Sent Successfully** message on the loaded page.