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.

1. Using JSP and Html Tags I designed the **index.jsp** page as specified in assignment.
2. Then I added the FileUploadServlet.java file.
3. **FileUploadServlet** supports two main functionalities

* Uploading the Excel file
* Generating Increment Letters of Employees specified by Excel File.

1. **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>

1. **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.
2. 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>

1. **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 :**

<plugin>

<groupId>org.eclipse.jetty</groupId>

<artifactId>jetty-maven-plugin</artifactId>

<version>9.3.12.v20160915</version>

</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.