README

<dependency>

GitHub for code: payslip4seisma Demo on AWS: http://payslip-env.eba-wbzk622x.useast-2.elasticbeanstalk.com/csvServlet README.txt Java version: 11 IDE: IntelliJ IDEA Tomcat server: 9.0.46 Maven: 3.8.1 Instruction to use the app(2 ways): Option 1: (Regardless of web view) 1. Download the zip file named "payslip4seisma" 2. Open the project from "File" -> "Open Project" 3. "Add Configuration" 4. Choose "Application" and add to Configuration 5. Right-Click on "Run Test.main()" Option 2: 1. Download and configurate Java JDK 11. 2. Download and configurate tomcat 9.0.46 3. Download and install maven 3.8.1 4. Run tomcat after adding dependencies in step 5; 5. Add dependencies to POM.xml(ignore maven plugin if you don't need .war): <build> <plugins> <plugin> <groupId>org.apache.maven.plugins</groupId> <artifactId>maven-war-plugin</artifactId> <version>3.3.0</version> </plugin> </plugins> </build> <dependencies>

Assumptions:

- 1. Input is in CSV format.
- 2. The sequence is first name, last name, annual salary, super rate (%), payment start date.
- 3. The year is 2021.

Design:

- 1. index.jsp
- 2. CSVservlet
- 3. CSV
 - 1. validate
 - 1. yes -> parse to Employee
 - 1. no empty
 - 2. not nonsense
 - 3. convert to right format (to int or float or date)
 - 2. no -> index.jsp
- 4. Employee
 - 1. calculate -> parse to PaySlip
- 5. PaySlip
 - 1. print

Testing Report:

Input	Output	Remark
Monica,Tan,60050,9%, 1 March	Monica Tan,01 March - 31 March,5004,922,4082 ,450	
,Tan,60050,9%,1 March	First Name cannot be empty.	
Monica,,60050,9%,1 Mar	Last Name cannot be empty.	
Monica,Tan,,9%,1 March	Annual Salary cannot be empty.	

Monica,Tan,60050,,1 March	Super Rate cannot be empty.	
Monica,Tan,60050,9%,	Invalid csv record. Valid csv record has 5 items separated by comma	
Monica,Tan,60050,0.0 9,1 Mar	Monica Tan,01 March - 31 March,5004,922,4082 ,450	Super Rate accepts float
Monica,Tan,60050,51 %,1 Mar	Super Rate: Cannot be over 50%.	Super Rate is between 0 and 50% inclusive.
Monica,Tan,60050,-9 %,1 Mar	Super Rate: Cannot be negative number.	
Monica,Tan,60050,9%, 1 Mar	Monica Tan,01 March - 31 March,5004,922,4082 ,450	Format start date and end date to the same length
Monica,Tan,60050,9%, 1 Marhk	Payment Start Date: the spelling of month is incorrect.	
Monica,Tan,60050,9%, 29 Feb	Payment Start Date: the day of this month cannot be over 28.	