**Employee Systems Report**

**The Employee System Interface**

The Java application Employee framework is a table-shaped module for displaying employee info. The program's first window is a search bar that enables users simply to search the application database using their employee ID. The second application window is the Employee window that shows all employee information in a table shape. The following window lists the bonuses and the salaries of other staff. The other window is the brutal part that shows just the 50 workers' gross wages. The second window is the table for women workers showing the list of all women. The last section shows the number of workers per municipalité in the census window.

**The Java Classes**

I have created 11 classes, that serve different roles in the Java Application. The first class is the Employees class, this class consists of the attributes of the system, the constructors, getters, setters, toString and the hash and equals. Secondly the FileManager class, it consists of the try and false statements and the scanners of the program that write to the textfile. Thirdly, the 5 classes, Support Stuff, Management, Marketing Executive, HRandAccountOfficers, and the TemporaryStuff, include the formulars for calculating the CarAllowance, tax and the monthlySalary of the 50 employees. Fourthly, the Search class includes the formulars of all the calculations and can also be used for the actionlistner button. And lastly the GUI class is used to programme the interface where the search interface will be created.

**The Employee Systems Methods**

The Employee Systems Java Program has a few methods for data handling. The GUI class has methods from the WritingToTextFile employee.txt file which contains the employee’s data and all the components of the screen interface. There are some methods in the WritingToTextFile class to manage how data is transferred from one class to another. The class employees have ways to obtain employee information and to set employee records. A list update recovers Array Out of Index errors. The other test was to verify whether a user searches for an existing employeeID, which results in a JOptionPanel displaying a post that informs the user that the typed information is invalid.

**The Employee Systems Testing**

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**The Problems I Encountered**

Difficult to create an application to read individual words in the WritingToTextFile and search classes and show those sections to the screen was a challenge for the application development. The other issue was a way to have coding, which could fit all 50 separate workers without repeating the code.

**New Improvements For The System**

The Future changes will include the authorization to view and change the text file through the following:

* May recruit new staff and delete current staff.
* To be able to adjust the worker’s rateOfPay.
* Will check for employees for any employee information.