

COMP242 - Project# 1: Java revision

In this project, you will implement a list structure that represents a list of Employee records and perform various operations on these records. The inputs for the project will be an employee file (employee.txt). Each line in this file contains an employee record with the following details: EmployeeID, Name, Age, Department, Date of Joining, and Gender.

For this project, you will use ArrayList to manage the records. Additionally, you will incorporate a TableView to display information and add functionality to read from and write to text files.

Requirements:

1. File Handling:

- Implement functionality to read data from a text file (employee.txt) and write data to a text file called (updatedEmployee.txt).
- The initial file data is attached.

2. List Structure:

- Use ArrayList to store and manage the employee records.
- 3. Graphical User Interface (GUI):Create a GUI using JavaFX (Scene Builder is not allowed in this course).
 - Implement the following features in the GUI:
 - A file chooser to select the employee file and fill the ArrayList with its data.
 - o An option to insert a new employee record into the ArrayList.

- o An option to delete an employee record from the ArrayList using the EmployeeID.
- o An option to search for a specific employee record by EmployeeID.
- o An option to display the number of employees grouped by age, gender, and department.
- o An option to save the updated data to the updatedEmployee.txt file.

4. Table View:

- Use TableView to display the employee records in a user-friendly format.

Good Luck!