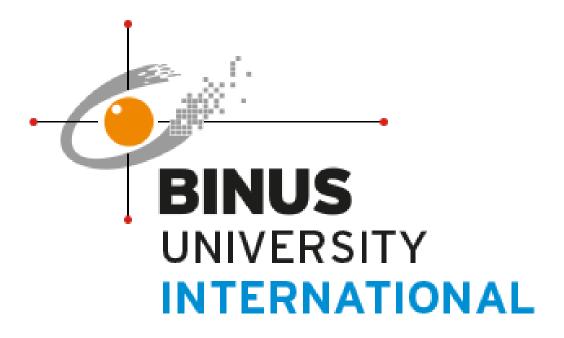
# Object Oriented Programming Final Project



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## **Project Specification**

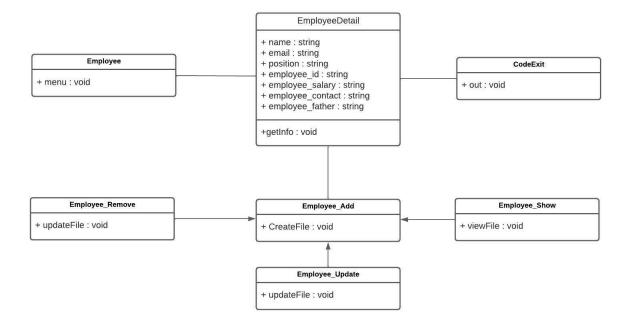
This project is a simple of program to store employee's data. Instead of using any data structures, I decided to use the write in file method where it's like other language, python. Why I used this method is because it's much simpler because the way they search the storage based on the ID, so they will search through in the file documents.

### **Features**

There are only basic features in this program such as:

- 1. Add new employee
- 2. Preview existed employee
- 3. Delete existed employee
- 4. Update employee information

# **Solution Design**



#### Classes

1. Menu. This class only shows the structure of how it will display on the screen.

```
// menu class
public class Employee{
    public void menu() {
        System.out.println("\t\t EMPLOYEE MANAGEMENT SYSTEM");
        System.out.println("\t\t EMPLOYEE MANAGEMENT SYSTEM");
        System.out.println("\n\nPress 1 : Add Employee");
        System.out.println("Press 2 : Employee Details ");
        System.out.println("Press 3 : Remove an Employee");
        System.out.println("Press 4 : Update Employee");
        System.out.println("Press 5 : Quit");
    }
}
```

2. EmployeeDetail. In this class, it declares the variable for the information that the employee needs to fill.

```
class EmployeeDetail{
    String name;
    String email;
    String position;
    String employee id;
    public void getInfo() {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter Employee's name
        name = sc.nextLine();
        System.out.print("Enter Father's name
        employee father = sc.nextLine();
        System.out.print("Enter Employee's ID
        employee_id = sc.nextLine();
        System.out.print("Enter Employee's Email ID
        email = sc.nextLine();
        System.out.print("Enter Employee's Position
        position = sc.nextLine();
        System.out.print("Enter Employee contact Info : ");
        employee contact = sc.nextLine();
        System.out.print("Enter Employee's Salary
        employee salary = sc.nextLine();
```

3. AddEmployee. This class responsible for storing the employee's data in the from of text file.

4. PreviewEmployee. This class to show the data of the selected employee that is existed.

```
// preview Employee class
class PreviewEmployee{
    public void lookFile(String s) throws Exception{
        File file = new File("file"+s+".txt");
        Scanner sc = new Scanner(file);

        while (sc.hasNextLine())
        {
             System.out.println(sc.nextLine());
        }
    }
}
```

5. RemoveEmployee. For removing the data that is stored, this class works for it where if you want to delete the existed data.

6. Update Employee. In order to update the information about the data that is exist, this function will get the job done.

7. CodeExit. This class is to exterminate the program that is running endlessly in the program.

#### **Driver**

As in the driver class, this file will be the main function from the class function.

```
public class Driver extends Employee{
   public static void main(String args[]) {
        System.out.print("\033[H\033[2J"); //clear the screen

        Scanner sc=new Scanner(System.in);
        PreviewEmployee preview =new PreviewEmployee(); // calling the preview class

        int i=0;

        Employee objl = new Employee(); // calling the class function
        objl.menu();
```

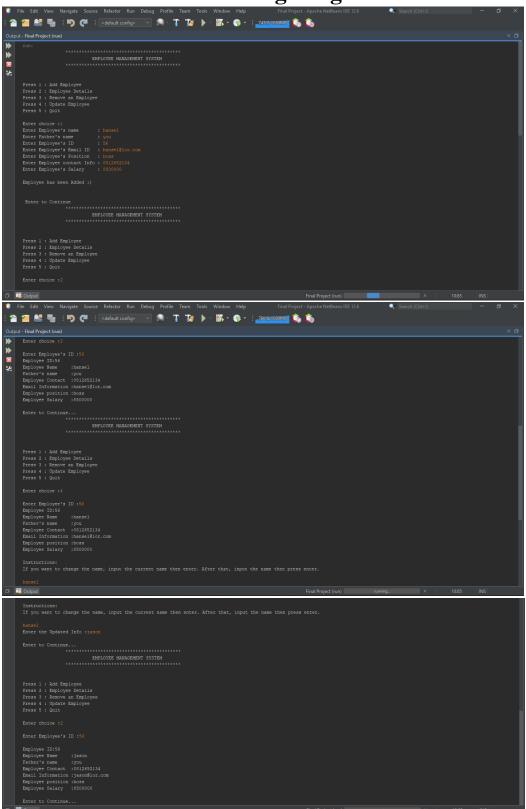
I start off with importing the employee class which is I use the "extends" command. Next is write the scan command so the user can input in to the program and calling the preview and also menu class.

```
while(i<6) // starting the loop
{
    System.out.print("\nEnter choice :");
    i=Integer.parseInt(sc.nextLine());</pre>
```

By using the while loop, the program will run endlessly so that the user can always use the program until input the terminate function.

Using the switch function is to make the program can run different function based on the user input.

**Working Program** 



### **References:**

 $\underline{https://www.programiz.com/java-programming/examples/create-and-write-\underline{to-}$ 

file#:~:text=java%20File%20file%20%3D%20new%20File,file%20to%20th e%20specified%20path.

https://www.w3schools.com/java/java\_switch.asp https://www.w3schools.com/java/java\_try\_catch.asp