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/***** Importing Essential Libraries *****/

import java.util.*;
import java.io.*;

/***** MENU OF EMS *****/

class MainMenu
{
    public void menu()
    {
        System.out.println("\t\t*****");
        System.out.println("\t\t\t EMPLOYEE MANAGEMENT SYSTEM");
        System.out.println("\t\t*****");
        System.out.println("\t\t\t -----");
        System.out.println("\t\t\t ~$ Thando Hlomuka");
        System.out.println("\t\t\t -----");
        System.out.println("\n\nPress 1 : To Add an Employee Details");
        System.out.println("Press 2 : To See an Employee Details ");
        System.out.println("Press 3 : To Remove an Employee");
        System.out.println("Press 4 : To Update Employee Details");
        System.out.println("Press 5 : To Exit the EMS Portal");

    }
}

/***** To add details of Employee *****/

class Employee_Add
{
    public void createFile()
    {
        Scanner sc=new Scanner(System.in);

        EmployDetail emp=new EmployDetail();
        emp.getInfo();
        try{
            File f1=new File("file"+emp.employ_id+".txt");
            if(f1.createNewFile()){
                FileWriter myWriter = new FileWriter("file"+emp.employ_id+".txt");
                myWriter.write("Employee ID:"+emp.employ_id+"\n"+"Employee Name
:"+emp.name+"\n"+
                "Father's Name      :"+emp.father_name+"\n"+"Employee Contact
:"+emp.employ_contact+"\n"+
                "Email Information :"+emp.email+"\n"+"Employee position
:"+emp.position+"\n"+
                "Employee Salary   :"+emp.employ_salary);
                myWriter.close();
                System.out.println("\nEmployee has been Added :)\n");

                System.out.print("\nPress Enter to Continue...");
                sc.nextLine();
            }
            else {

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        System.out.println("\nEmployee already exists :(");
        System.out.print("\nPress Enter to Continue...");
        sc.nextLine();
    }
}
catch (Exception e) {System.out.println(e);}
}

/***** Taking Employee Details *****/

class EmployDetail
{
    String name;
    String father_name;
    String email;
    String position;
    String employ_id;
    String employ_salary;
    String employ_contact;
    public void getInfo()
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter Employee's name -----: ");
        name=sc.nextLine();
        System.out.print("Enter Employee's Father name -: ");
        father_name=sc.nextLine();
        System.out.print("Enter Employee's ID -----: ");
        employ_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 --: ");
        employ_contact=sc.nextLine();
        System.out.print("Enter Employee's Salary -----: ");
        employ_salary=sc.nextLine();
    }
}

/***** To Show details of Employee *****/

class Employee_Show
{
    public void viewFile(String s) throws Exception
    {
        File file = new File("file"+s+".txt");
        Scanner sc = new Scanner(file);

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

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/****** To Remove Employee *****/
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```
class Employee_Remove
{
    public void removeFile(String ID)
    {
        File file = new File("file"+ID+".txt");
        if(file.exists())
        {
            if(file.delete());
            {
                System.out.println("\nEmployee has been removed Successfully");
            }
        }
        else
        {
            System.out.println("\nEmployee does not exists :( ");
        }
    }
}
```

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/****** To Update details of Employee *****/
```

```
class Employee_Update
{
    public void updateFile(String s,String o,String n) throws IOException
    {
        File file = new File("file"+s+".txt");
        Scanner sc = new Scanner(file);
        String fileContext="";
        while (sc.hasNextLine())
        {
            fileContext =fileContext+"\n"+sc.nextLine();
        }
        FileWriter myWriter = new FileWriter("file"+s+".txt");
        fileContext = fileContext.replaceAll(o,n);
        myWriter.write(fileContext);
        myWriter.close();
    }
}
```

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/****** To Exit from the EMS Portal *****/
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```
class CodeExit
{
    public void out()
    {
        System.out.println("\n*****");
        System.out.println("$ cat Thank You For Using my Software :) ");
        System.out.println("*****");
        System.out.println("\t\t/~ <0d3d by Thando Hlomuka\n");
    }
}
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        System.exit(0);
    }
}

/***** Main Class *****/
class EmployManagementSystem
{
    public static void main(String arv[])
    {
        /** To clear the output Screen **/
        System.out.print("\033[H\033[2J");

        Scanner sc=new Scanner(System.in);
        Employee_Show epv =new Employee_Show();

        int i=0;

        /** Calling Mainmenu Class function ****/
        MainMenu obj1 = new MainMenu();
        obj1.menu();

        /** Initialising loop for Menu Choices ***/
        while(i<6)
        {

            System.out.print("\nPlease Enter choice :");
            i=Integer.parseInt(sc.nextLine());

            /** Switch Case Statements **/
            switch(i)
            {
                case 1:
                {
                    /** Creating class's object and calling Function using that object **/
                    Employee_Add ep =new Employee_Add();
                    ep.createFile();

                    System.out.print("\033[H\033[2J");
                    obj1.menu();
                    break;
                }
                case 2:
                {
                    System.out.print("\nPlease Enter Employee's ID :");
                    String s=sc.nextLine();
                    try
                    {
                        epv.viewFile(s);
                    }
                    catch (Exception e) {System.out.println(e);}

                    System.out.print("\nPress Enter to Continue...");
                    sc.nextLine();
                    System.out.print("\033[H\033[2J");
                }
            }
        }
    }
}

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        obj1.menu();
        break;
    }

    case 3:
    {
        System.out.print("\nPlease Enter Employee's ID :");
        String s=sc.nextLine();
        Employee_Remove epr =new Employee_Remove();
        epr.removeFile(s);

        System.out.print("\nPress Enter to Continue...");
        sc.nextLine();
        System.out.print("\033[H\033[2J");
        obj1.menu();
        break;
    }

    case 4:
    {
        System.out.print("\nPlease Enter Employee's ID :");
        String I=sc.nextLine();
        try
        {
            epv.viewFile(I);
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
        Employee_Update epu = new Employee_Update();
        System.out.print("Please Enter the detail you want to Update :");
        System.out.print("\nFor Example :\n");
        System.out.println("If you want to Change the Name, then Enter Current Name
and Press Enter. Then write the new Name then Press Enter. It will Update the
Name.\n");
        String s=sc.nextLine();
        System.out.print("Please Enter the Updated Info :");
        String n=sc.nextLine();
        try
        {
            epu.updateFile(I,s,n);

            System.out.print("\nPress Enter to Continue...");
            sc.nextLine();
            System.out.print("\033[H\033[2J");
            obj1.menu();
            break;
        }
        catch(IOException e)
        {
            System.out.println(e);
        }
    }

    case 5:
    {

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        CodeExit obj = new CodeExit();
        obj.out();
    }
}
}
```

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/****** CODED BY THANDO HLOMUKA *****/
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