|  |
| --- |
| import java.io.File; |
|  | import java.io.FileInputStream; |
|  | import java.io.FileOutputStream; |
|  | import java.io.IOException; |
|  | import java.io.ObjectInputStream; |
|  | import java.io.ObjectOutputStream; |
|  | import java.io.Serializable; |
|  | import java.util.ArrayList; |
|  | import java.util.Scanner; |
|  |  |
|  | @SuppressWarnings("serial") |
|  | class Employee implements Serializable{ |
|  |  |
|  | int id; |
|  | String name; |
|  | float salary; |
|  | long contact\_no; |
|  | String email\_id; |
|  |  |
|  | public Employee(int id, String name, float salary, long contact\_no, String email\_id) |
|  | { |
|  | this.id = id; |
|  | this.name = name; |
|  | this.salary = salary; |
|  | this.contact\_no = contact\_no; |
|  | this.email\_id = email\_id; |
|  | } |
|  |  |
|  | public String toString() |
|  | { |
|  | return "\nEmployee Details :" + "\nID: " + this.id + "\nName: " + this.name + "\nSalary: " + |
|  | this.salary + "\nContact No: " + this.contact\_no + "\nEmail-id: " + this.email\_id; |
|  | } |
|  |  |
|  | } |
|  |  |
|  | public class EmployeeManagement |
|  | { |
|  | static void display(ArrayList<Employee> al) |
|  | { |
|  | System.out.println("\n--------------Employee List---------------\n"); |
|  | System.out.println(String.format("%-10s%-15s%-10s%-20s%-10s", "ID","Name","salary","contact-no","Email-Id")); |
|  | for(Employee e : al) |
|  | { |
|  | System.out.println(String.format("%-5s%-20s%-10s%-15s%-10s",e.id,e.name,e.salary,e.contact\_no,e.email\_id)); |
|  | } |
|  | } |
|  |  |
|  | @SuppressWarnings("unchecked") |
|  | public static void main(String[] args) |
|  | { |
|  | int id; |
|  | String name; |
|  | float salary; |
|  | long contact\_no; |
|  | String email\_id; |
|  |  |
|  | Scanner sc = new Scanner(System.in); |
|  | ArrayList<Employee> al = new ArrayList<Employee>(); |
|  |  |
|  | File f = null; |
|  | FileInputStream fis = null; |
|  | ObjectInputStream ois = null; |
|  | FileOutputStream fos = null; |
|  | ObjectOutputStream oos =null; |
|  | try{ |
|  |  |
|  | f = new File("N:/Java Work Space/Eclipse Programs/Employee Management Tool/src/EmployeeDataList1.txt"); |
|  | if(f.exists()) |
|  | { |
|  | fis = new FileInputStream(f); |
|  | ois = new ObjectInputStream(fis); |
|  | al = (ArrayList<Employee>)ois.readObject(); |
|  | } |
|  |  |
|  | } |
|  | catch(Exception exp){ |
|  | System.out.println(exp); |
|  | } |
|  | do |
|  | { |
|  | System.out.println("\n\*\*\*\*\*\*\*\*\*Welcome to the Employee Management System\*\*\*\*\*\*\*\*\*\*\n"); |
|  | System.out.println("1). Add Employee to the DataBase\n" + |
|  | "2). Search for Employee\n" + |
|  | "3). Edit Employee details\n" + |
|  | "4). Delete Employee Details\n" + |
|  | "5). Display all Employees working in this company\n" + |
|  | "6). EXIT\n"); |
|  | System.out.println("Enter your choice : "); |
|  | int ch = sc.nextInt(); |
|  |  |
|  | switch(ch) |
|  | { |
|  | case 1:System.out.println("\nEnter the following details to ADD list:\n"); |
|  | System.out.println("Enter ID :"); |
|  | id = sc.nextInt(); |
|  | System.out.println("Enter Name :"); |
|  | name = sc.next(); |
|  | System.out.println("Enter Salary :"); |
|  | salary = sc.nextFloat(); |
|  | System.out.println("Enter Contact No :"); |
|  | contact\_no = sc.nextLong(); |
|  | System.out.println("Enter Email-ID :"); |
|  | email\_id = sc.next(); |
|  | al.add(new Employee(id, name, salary, contact\_no, email\_id)); |
|  | display(al); |
|  | break; |
|  |  |
|  | case 2: System.out.println("Enter the Employee ID to search :"); |
|  | id = sc.nextInt(); |
|  | int i=0; |
|  | for(Employee e: al) |
|  | { |
|  | if(id == e.id) |
|  | { |
|  | System.out.println(e+"\n"); |
|  | i++; |
|  | } |
|  | } |
|  | if(i == 0) |
|  | { |
|  | System.out.println("\nEmployee Details are not available, Please enter a valid ID!!"); |
|  | } |
|  | break; |
|  |  |
|  | case 3: System.out.println("\nEnter the Employee ID to EDIT the details"); |
|  | id = sc.nextInt(); |
|  | int j=0; |
|  | for(Employee e: al) |
|  | { |
|  | if(id == e.id) |
|  | { |
|  | j++; |
|  | do{ |
|  | int ch1 =0; |
|  | System.out.println("\nEDIT Employee Details :\n" + |
|  | "1). Employee ID\n" + |
|  | "2). Name\n" + |
|  | "3). Salary\n" + |
|  | "4). Contact No.\n" + |
|  | "5). Email-ID\n" + |
|  | "6). GO BACK\n"); |
|  | System.out.println("Enter your choice : "); |
|  | ch1 = sc.nextInt(); |
|  | switch(ch1) |
|  | { |
|  | case 1: System.out.println("\nEnter new Employee ID:"); |
|  | e.id =sc.nextInt(); |
|  | System.out.println(e+"\n"); |
|  | break; |
|  |  |
|  | case 2: System.out.println("Enter new Employee Name:"); |
|  | e.name =sc.nextLine(); |
|  | System.out.println(e+"\n"); |
|  | break; |
|  |  |
|  | case 3: System.out.println("Enter new Employee Salary:"); |
|  | e.salary =sc.nextFloat(); |
|  | System.out.println(e+"\n"); |
|  | break; |
|  |  |
|  | case 4: System.out.println("Enter new Employee Contact No. :"); |
|  | e.contact\_no =sc.nextLong(); |
|  | System.out.println(e+"\n"); |
|  | break; |
|  |  |
|  | case 5: System.out.println("Enter new Employee Email-ID :"); |
|  | e.email\_id =sc.next(); |
|  | System.out.println(e+"\n"); |
|  | break; |
|  |  |
|  | case 6: j++; |
|  | break; |
|  |  |
|  | default : System.out.println("\nEnter a correct choice from the List :"); |
|  | break; |
|  |  |
|  | } |
|  | } |
|  | while(j==1); |
|  | } |
|  | } |
|  | if(j == 0) |
|  | { |
|  | System.out.println("\nEmployee Details are not available, Please enter a valid ID!!"); |
|  | } |
|  |  |
|  | break; |
|  |  |
|  | case 4: System.out.println("\nEnter Employee ID to DELETE from the Databse :"); |
|  | id = sc.nextInt(); |
|  | int k=0; |
|  | try{ |
|  | for(Employee e: al) |
|  | { |
|  | if(id == e.id) |
|  | { |
|  | al.remove(e); |
|  | display(al); |
|  | k++; |
|  | } |
|  | } |
|  | if(k == 0) |
|  | { |
|  | System.out.println("\nEmployee Details are not available, Please enter a valid ID!!"); |
|  | } |
|  | } |
|  | catch(Exception ex){ |
|  | System.out.println(ex); |
|  | } |
|  | break; |
|  |  |
|  | case 5: try { |
|  | al = (ArrayList<Employee>)ois.readObject(); |
|  |  |
|  | } catch (ClassNotFoundException e2) { |
|  |  |
|  | System.out.println(e2); |
|  | } catch (Exception e2) { |
|  |  |
|  | System.out.println(e2); |
|  | } |
|  | display(al); |
|  | break; |
|  |  |
|  | case 6: try { |
|  | fos = new FileOutputStream(f); |
|  | oos = new ObjectOutputStream(fos); |
|  | oos.writeObject(al); |
|  | } catch (IOException e1) { |
|  | e1.printStackTrace(); |
|  | } |
|  | catch(Exception e2){ |
|  | e2.printStackTrace(); |
|  | } |
|  | finally{ |
|  | try { |
|  | fis.close(); |
|  | ois.close(); |
|  | fos.close(); |
|  | oos.close(); |
|  | } catch (Exception e1) { |
|  | e1.printStackTrace(); |
|  | } |
|  |  |
|  | } |
|  | System.out.println("\nYou have chosen EXIT !! Saving Files and closing the tool."); |
|  | sc.close(); |
|  | System.exit(0); |
|  | break; |
|  |  |
|  | default : System.out.println("\nEnter a correct choice from the List :"); |
|  | break; |
|  |  |
|  | } |
|  | } |
|  | while(true); |
|  | } |
|  |  |
|  | } |