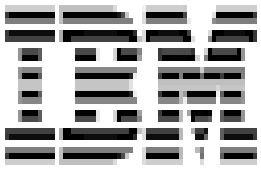


Institute of Computer Technology

B.Tech Computer Science and Engineering

Semester - III

Subject: Object Oriented Programming

FINAL MINI PROJECT ON

" HUMAN RESOURCE MANAGEMENT SYSTEM"

DEVELOPED IN

JAVA

Submitted by:

Atharva Deshpande (21162171003)

FULL CODE

1. SQL-JAVA CONNECTION

```
//package atharva
;
//
//import java.sql.Connection;
//import java.sql.DriverManager;
//
//public class ConnectionProvider {
//
//    static Connection con; // to store connection
//
//    public static Connection createC() {
//        try {
//            // to load driver
//            Class.forName("com.mysql.jdbc.Driver");
//
//            //to create connection
//
//
//
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atharva
", "root","Diya@1808");
//            System.out.println("Connected to database ☺ ");
//
//        }
//        catch(Exception e) {
//            e.printStackTrace();
//        }
//        return con;
//    }
//}
```

2. .JAVA CODE

```
package atharva;

import java.io.Serializable;
import java.time.LocalDate;

public class Employee {

	private int id;
	private String name;
	private int  age;
	private String desiganation;
	private String department;
	private double salary;

	public int getId() {
		return id;
	}
	public void setId(int id) {
		this.id = id;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public int getAge() {
		return age;
	}
	public void setAge(int age) {
		this.age = age;
	}
	public String getDesiganation() {
		return desiganation;
	}
	public void setDesiganation(String desiganation) {
		this.desiganation = desiganation;
	}
	public String getDepartment() {
```

```
		return department;
	}
	public void setDepartment(String department) {
		this.department = department;
	}
	public double getSalary() {
		return salary;
	}
	public void setSalary(double salary) {
		this.salary = salary;
	}
	@Override
	public String toString() {
		return "Employee [id=" + id + ", name=" + name + ", age="
+ age + ", desiganation=" + desiganation
				+ ", department=" + department + ", salary=" +
salary + "]";
	}
	public Employee(int id, String name, int age, String desiganation,
String department, double salary) {
		super();
		this.id = id;
		this.name = name;
		this.age = age;
		this.desiganation = desiganation;
		this.department = department;
		this.salary = salary;
	}

}
```

3. Employee service code

```
package aman;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Scanner;
```

```
import java.util.TreeSet;

public class EmployeeService {

	HashSet<Employee> empset=new HashSet<Employee>();

	Employee emp1=new Employee(101, "Shital", 24, "Developer",
"IT", 25000);
	Employee emp2=new Employee(102, "Meena", 26, "Tester","CO",
57000);
	Employee emp3=new Employee(103, "Bob", 20, "DevOps
Eng","Admin", 5000);
	Employee emp4=new Employee(104, "Max", 27, "System
Eng","CO",  70000);

	Scanner sc=new Scanner(System.in);
	boolean found=false;
	int id;
	String name;
	int age;
	String department;
	String desiganation;
	String status;
	double sal;

	public EmployeeService() {

		empset.add(emp1);
		empset.add(emp2);
		empset.add(emp3);
		empset.add(emp4);

	}

	//view all employees
	public void viewAllEmps() {
		for(Employee emp:empset) {
			System.out.println(emp);
		}
	}
```

```
	//view emp based on there id
	public void viewEmp(){

		System.out.println("Enter id: ");
		id=sc.nextInt();
		for(Employee emp:empset) {
			if(emp.getId()==id) {
				System.out.println(emp);
				found=true;
			}

		}
		if(!found) {
			System.out.println("Employee with this id is not
present");
		}
	}
	//update the employee
	public void updateEmployee() {
		System.out.println("Enter id: ");
		id=sc.nextInt();
		boolean found=false;
		for(Employee emp:empset) {
			if(emp.getId()==id) {
				System.out.println("Enter name: ");
				name=sc.next();
				System.out.println("Enter new Salary");
				sal=sc.nextDouble();
				emp.setName(name);
				emp.setSalary(sal);
				System.out.println("Updated Details of
employee are: ");
				System.out.println(emp);
				found=true;
			}
		}
		if(!found) {
			System.out.println("Employee is not present");
		}
		else {
```

```
                    System.out.println("Employee details updated
successfully !!");
                }
        }
        //delete emp
        public void deleteEmp() {
                System.out.println("Enter id");
                id=sc.nextInt();
                boolean found=false;
                Employee empdelete=null;
                for(Employee emp:empset) {
                        if(emp.getId()==id) {
                                empdelete=emp;
                                found=true;
                        }
                }
                if(!found) {
                        System.out.println("Employee is not present");
                }
                else {
                        empset.remove(empdelete);
                        System.out.println("Employee deleted
successfully!!");
                }
        }
        //add emp
        public void addEmp() {
                System.out.println("Enter id:");
                id=sc.nextInt();
                System.out.println("Enter name");
                name=sc.next();
                System.out.println("Enter age");
                age=sc.nextInt();
                System.out.println("enter Desiganation");
                desiganation=sc.next();
                System.out.println("Enter Department");
                department=sc.next();
                System.out.println("Enter sal");
                sc.nextDouble();
```

```
		Employee emp=new Employee(id, name, age, desiganation,
department, sal);

		empset.add(emp);
		System.out.println(emp);
		System.out.println("Employtee addeed successsfully");
		Statement stmt = null;
		Connection conn = null;
		try {

	conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/
astik", "root","Diya@1808");
			stmt = conn.createStatement();
			String sql = "INSERT INTO Employees
values("+id+",'"+name+"',"+age+",'"+department+"','"+desiganation+"',"
+sal+");";
			stmt.executeUpdate(sql);
		} catch(SQLException e) {
			e.printStackTrace();
		} catch(Exception e) {
			e.printStackTrace();
		} finally {
			try {
				if(stmt!=null) {
					conn.close();
				}
			}catch(SQLException se) {

			}
			try {
				if(conn!=null) {
					conn.close();
				}
			} catch(SQLException se){
				se.printStackTrace();
			}
		}

	}
	public void attendance() {
```

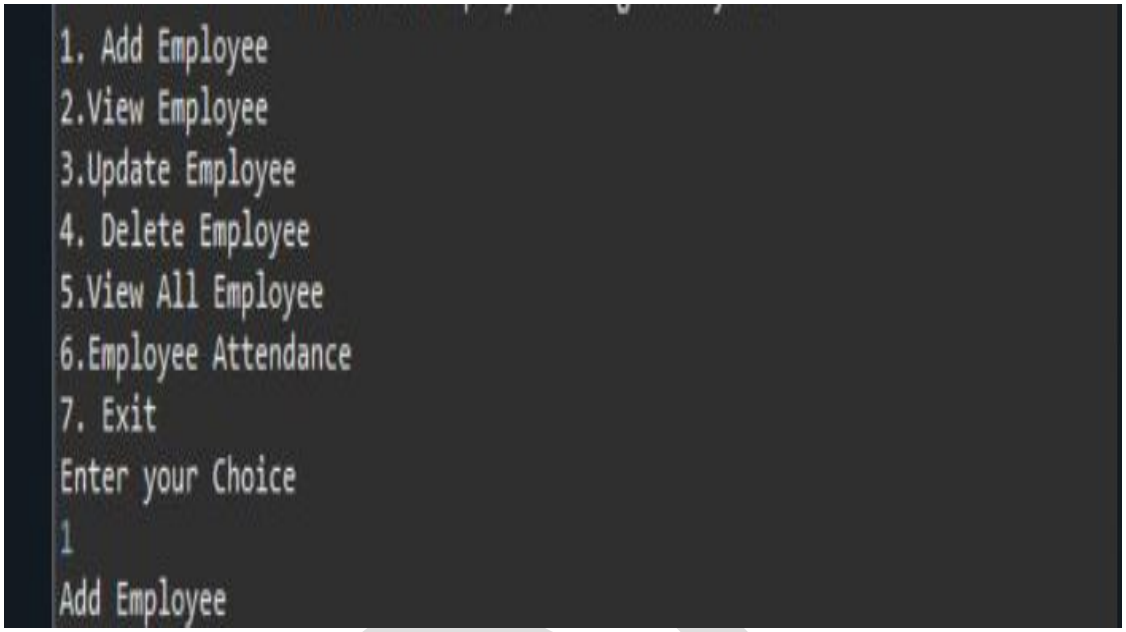
```
                System.out.println("Enter id:");
                id=sc.nextInt();
                System.out.println("Enter emp_dept: ");
                String dept = sc.next();
                System.out.println("Enter Attendance date: ");
                String date = sc.next();
                System.out.println("Enter emp_Attendance");
                status = sc.next();
                Statement stmt = null;
                Connection conn = null;
                try {

        conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/
astik", "root","Diya@1808");
                        stmt = conn.createStatement();
                        String sql = "INSERT INTO Attendence
values("+id+","'+dept+'","'+date+'","'+status+'");";
                        stmt.executeUpdate(sql);
                } catch(SQLException e) {
                        e.printStackTrace();
                } catch(Exception e) {
                        e.printStackTrace();
                } finally {
                        try {
                                if(stmt!=null) {
                                        conn.close();
                                }
                        }catch(SQLException se) {

                        }
                        try {
                                if(conn!=null) {
                                        conn.close();
                                }
                        } catch(SQLException se){
                                se.printStackTrace();
                        }
                }

        }
```

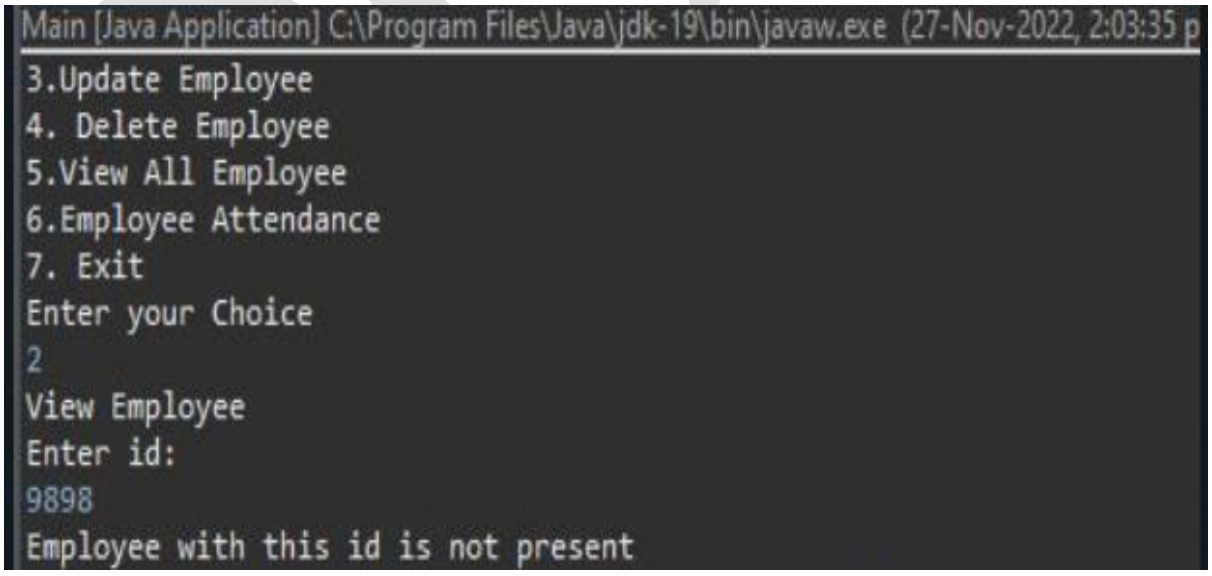
4. MAIN.JAVA CODE

```
package atharva;

import java.util.Scanner;
public class Main {

        EmployeeService service=new EmployeeService();
        static boolean ordering = true;
        public static void menu() {
       System.out.println("*****Welcome To Human Resource
Managment System **** "
                + "\n1. Add Employee "
                + "\n2.View Employee"
                + "\n3.Update Employee"
                + "\n4. Delete Employee"
                + "\n5.View All Employee"
                + "\n6.Employee Attendance"
                + "\n7. Exit ");
   }

        public static void main(String[] args) {
                Scanner sc=new Scanner(System.in);
                EmployeeService service=new EmployeeService();

                do {
                        menu();
                        System.out.println("Enter your Choice");
                        int choice=sc.nextInt();
                        switch(choice) {

                        case 1:
                                System.out.println("Add Employee");
                                service.addEmp();
                                break;
                        case 2:
                                System.out.println("View Employee");
                                service.viewEmp();
                                break;
                        case 3:
```

```
                    System.out.println("Update Employee");
                    service.updateEmployee();
                    break;
                case 4:
                    System.out.println("Delete Employee");
                    service.deleteEmp();
                    break;
                case 5:
                    System.out.println("view All Employee");
                    service.viewAllEmps();
                    break;
                case 6:
                    System.out.println("Employee Attendance");
                    service.attendance();
                    break;
                case 7:
                    System.out.println("Thank you for using
application!!");
                    System.exit(0);

                default:
                    System.out.println("Please enter valid choice");
                    break;


                }

            }while(ordering);

                }

        }
```

OUTPUT SCREENSHOTS






3
Update Employee
Enter id:
9897
Employee is not present


4
Delete Employee
Enter id
001
Employee is not present

```
7. Exit
Enter your Choice
5
view All Employee
Employee [id=101, name=Shital, age=24, desiganation=Developer, department=IT, salary=25000.0]
Employee [id=104, name=Max, age=27, desiganation=System Eng, department=CO, salary=70000.0]
Employee [id=102, name=Meena, age=26, desiganation=Tester, department=CO, salary=57000.0]
Employee [id=103, name=Bob, age=20, desiganation=DevOps Eng, department=Admin, salary=5000.0]
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

emp_id	emp_name	emp_age	emp_designation	emp_dept	emp_salary
9898	amal	20	CS	MANAGER	0
