OBJECT ORIENTED PROGRAMMING CSL-210

Project Report

"EMPLOYEE COMPLAIN PORTAL"

Class: BS (CS)- 2A

Course Teacher: Miss Sameena Javed Lab Teacher: Miss Salas Akbar

MUHAMMAD ABDULLAH KHAN (02-134221-023)

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1. INTRODUCTION TO SYSTEM:

A Complaint Management System is a Software Application that allows businesses to manage a more efficient way to respond to consumer queries, provide consistent service and manage complaints. We're working on a Complaint Management System that is designed for any company that would deal with complaints involving every part of the company. Implementing it in any company can be fruitful towards the development of company and can have many benefits. The main objective of the system is to identify the issues that are affecting the internal operations of the Company. It should also be able to provide the necessary help to the staff members by improving the efficiency of the organization.

❖ PROPOSED SYSTEM:

Our employee complain portal is developed to work for any Company and its employees. It provides an online way of solving the problems faced by the employees by saving time. The objective of our Complaint portal is to make complaints easier to coordinate, monitor, track and resolve, and to provide a company with an effective tool to identify and target problem areas, monitor complaints handling performance and make business improvements. By this system the employee can save his time and solve their concerns without going to an Admin Officer. They can get their problem solved by posting the problem in this proposed system.

Employee complain portal provides the following services:

o Login form and signup form:

Login form and signup forms for admin and users.

This login form will help the admin or user to login from their existing accounts, if any admin or user do not have an account, they can sign up via signup option and register their complaints.

Employee can register more than one complain at a time. Admin panel will manage all the complaints of employees.

2. DATABASE EXPLANATION:

The class DB Connection consists of methods for connection of database, Admin login, user login, for searching, deleting, updating, fetching and adding the records in access database. The class DB connection consists of objects from our backend classes.

The database is connected to project in a way that it holds different methods of different tasks as mentioned above.

The method establishconnection () consists of complete path for access files. After giving the path of UcanAccess we have concatenated the location of our Access files.

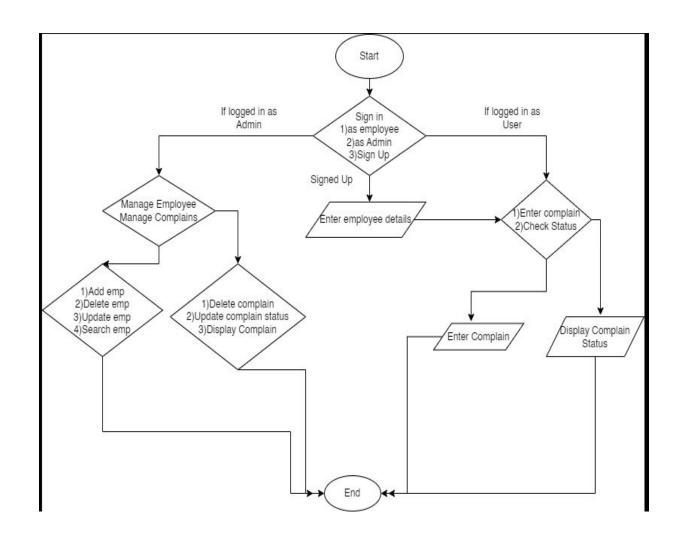
In the methods user login and admin login we pass a query to select all data from the tables in access database. The method type is Boolean which returns true if the login data matches the data in the access database and allow the following users to work on their respective pages.

The method adduser () or addEmpdet () Signs up a user and the query for inserting the data is passed to the database. The method updatepassword () passes a query for updating records like username or password using their respective ids. The method searchAdmin () searches the admin from the database and the method deleteAdmin () deletes the admin from the database table. We have made different functions in different classes and has connected those classes from database.

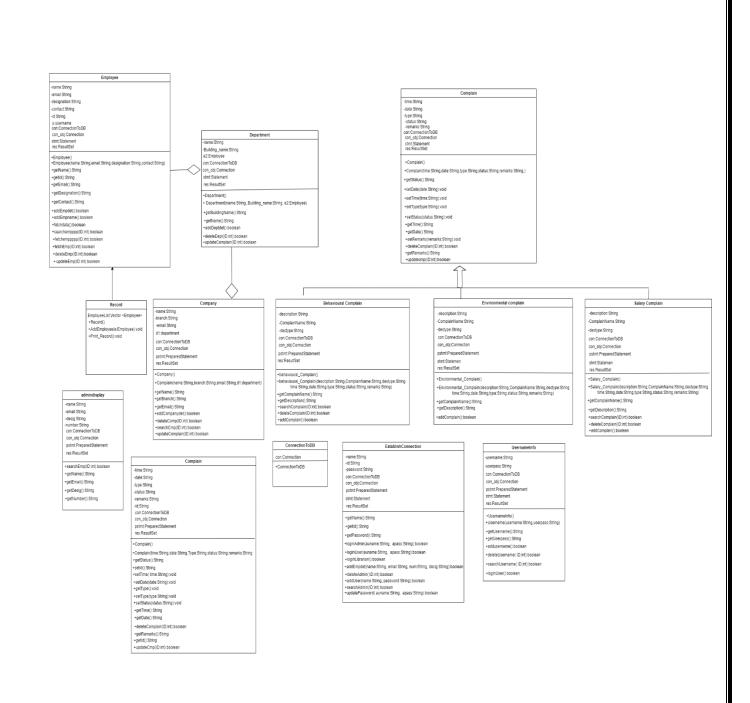
3. FEATURES OF PROJECT:

- **Lasy to use**
- User-friendly interface
- Database for saving records
- Update, delete, fetch, add and search functionalities
- Check Status
- Admin Login
- User Login
- Signup
- Register complains

4. FLOWCHART:

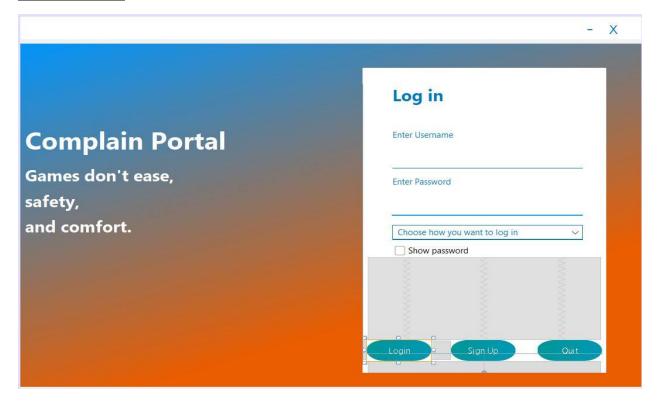


5. UML DIAGRAM:

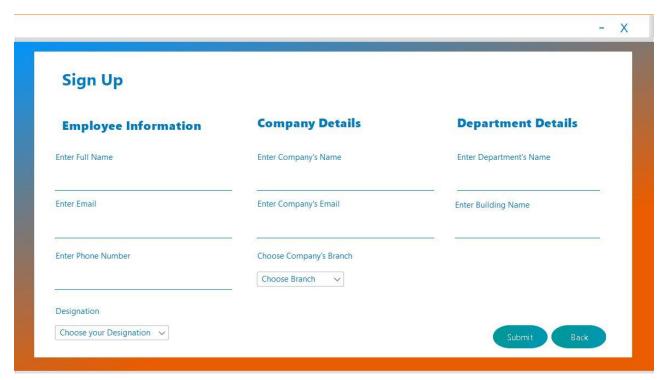


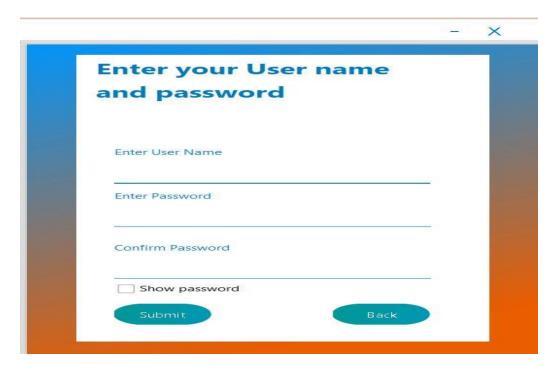
6. SCREENSHOTS OF ALL FORMS:

LOGIN FORM: Login form for users and admins.

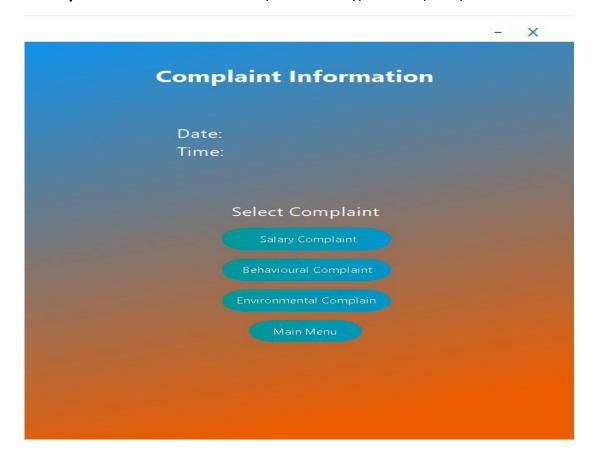


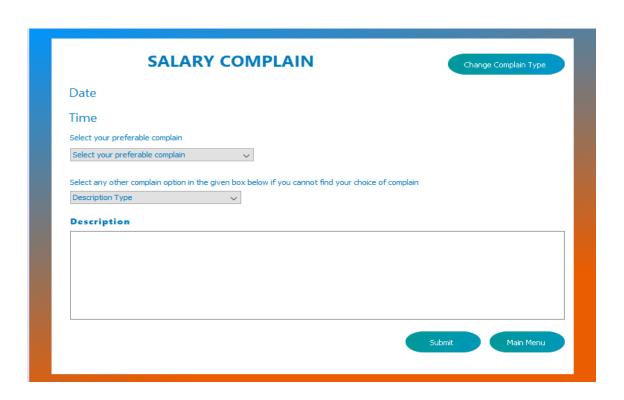
SIGN UP FORM: sign up form for admin and user.

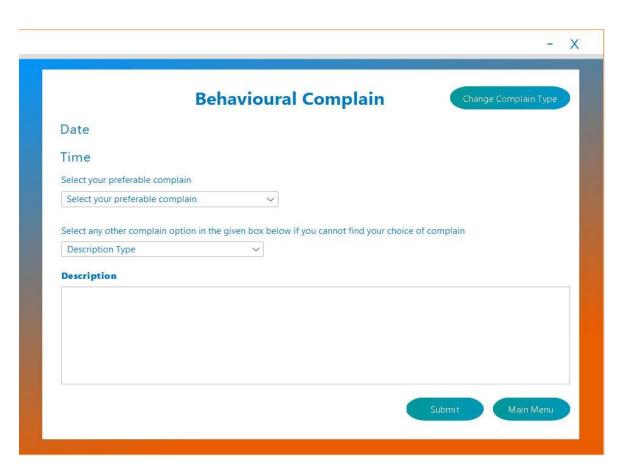


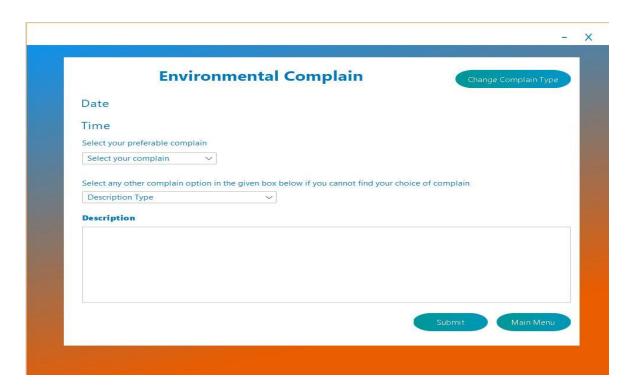


Complain interface: select the option of the type of complain you want to file.

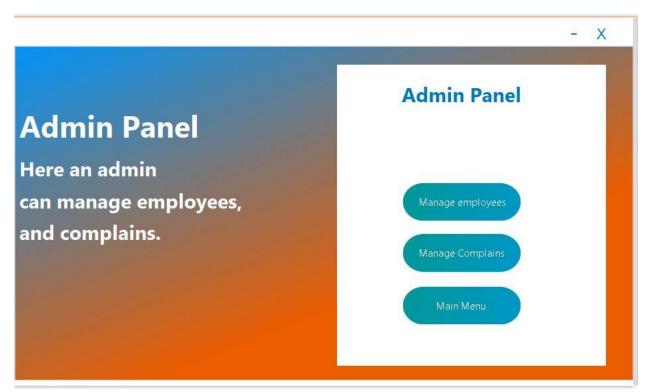




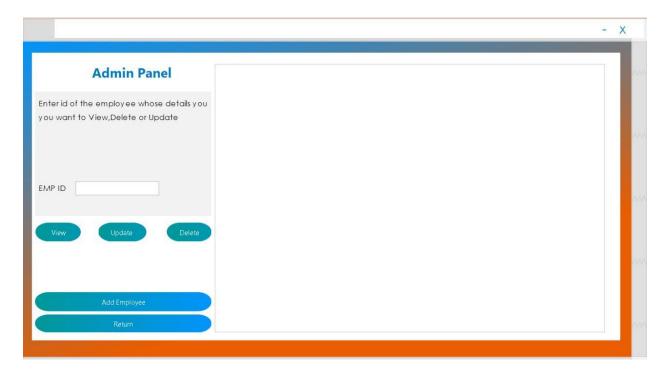




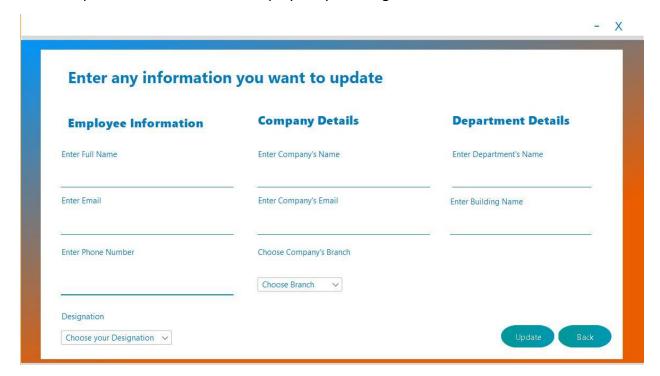
ADMIN PANEL INTERFACE: Admin will select whether he has to manage employees or complains.

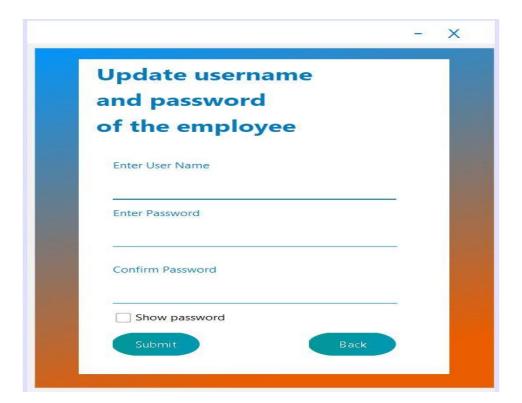


This is an admin panel which will delete, view and update complains.

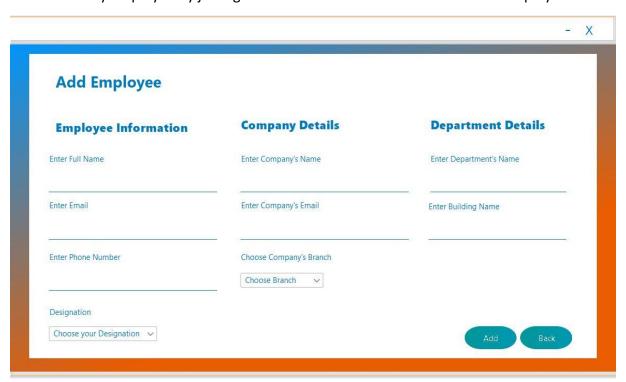


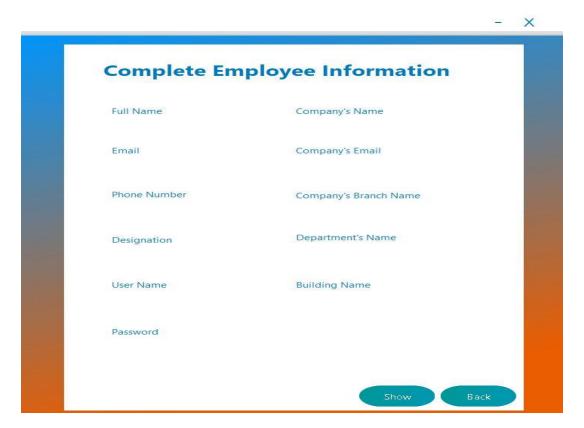
You can update the information of employee by entering all the information.



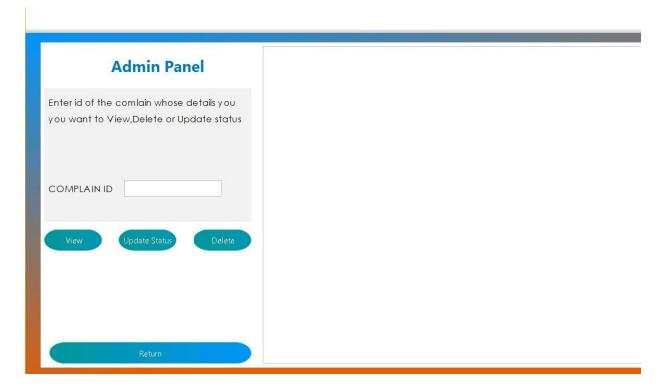


You can add any employee by jotting down all the information of the desired employee.

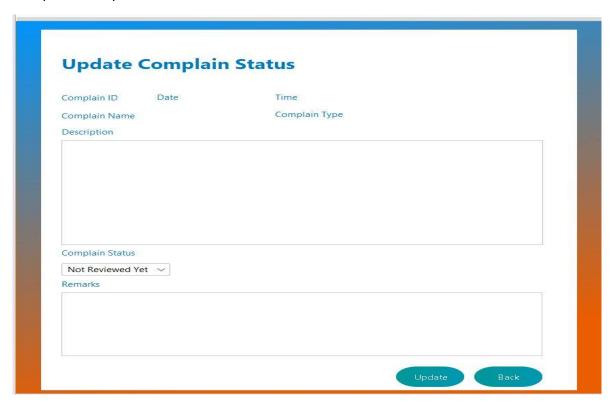




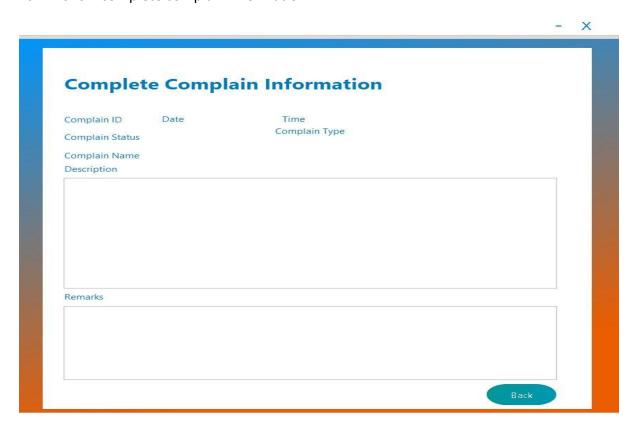
This is an admin panel which will delete, view and update complains.



It will update complain status.



This will show complete complain information.



7. CODE SNIPPETS:

CLASS EMPLOYEE:

```
package\ com. my company. login interface;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
public class Employee {
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj = con.EstablishConnection();
  PreparedStatement pstmt = null;
  Statement stmt = null;
  ResultSet res = null;
  private String name, email, designation, contact, id;
  public Employee() {
  public Employee(String name, String email, String designation, String contact) {
    this.name = name;
    this.email = email;
    this.designation = designation;
    this.contact = contact;
  public String getName() {
```

```
return name;
  public String getId() {
    return id;
  public String getEmail() {
    return email;
  public String getDesignation() {
    return designation;
  public String getContact() {
    return contact;
  public boolean addEmpdet() {
    boolean b = false;
    String sql = "insert into emp_details(Fullname,email,number,Designation)values("" + this.name + "","" + this.email + "","" +
this.contact + "','" + this.designation + "')";
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
         b = true;
```

```
} else {
      JOptionPane.showMessageDialog(null, "Error");
      b = false;
  } catch (Exception ex) {
    {\sf JOptionPane.showMessageDialog(null,\,ex);}
  }
  return b;
public boolean fetchdata() {
  String str = "SELECT * FROM emp_details ";
  boolean b = false;
  try {
    pstmt = con_obj.prepareStatement(str);
    res = pstmt.executeQuery();
    while (res.next()) {
      name = res.getString("Fullname");
      email = res.getString("email");
      contact = res.getString("number");
      designation = res.getString("Designation");
      id = res.getString("ID");
      b = true;
      return b;
```

```
} catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
    b = false;
  return b;
public boolean searchEmp(int ID) {
  String str = "select * from emp_details where ID = '" + ID + "'";
  boolean b = false;
  try {
    pstmt = con_obj.prepareStatement(str);
    res = pstmt.executeQuery();
    while (res.next()) {
      name = res.getString("Fullname");
      email = res.getString("email");
      contact = res.getString("number");
      designation = res.getString("Designation");
      id = res.getString("ID");
      b = true;
      return b;
  } catch (Exception e) {
    {\sf JOptionPane.showMessageDialog(null,\,e);}
    b = false;
  return b;
public boolean deleteEmp(int ID) {
```

```
String str = "delete from emp_details where ID = "" + ID + """;
    boolean b = false;
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(str);
      if (res > 0) {
         b = true;
      } else {
         b = false;
    } catch (Exception e) {
      JOptionPane.showMessageDialog(null, e);
    }
    return b;
  public boolean updateEmp(int ID) {
    boolean b = false;
    String sql = "UPDATE emp_details SET Fullname = "" + this.name + "",email = "" + this.email + "",number = "" + this.contact +
"',Designation = "" + this.designation + "' WHERE ID = "" + ID + """;
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
         b = true;
      } else {
```

```
JOptionPane.showMessageDialog(null, "Error");
    b = false;
}

} catch (Exception ex) {
    JOptionPane.showMessageDialog(null, ex);
}

return b;
}
```

CLASS BEHAVIOURIAL COMPLAIN:

```
package com.mycompany.logininterface;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;

public class Behavioural_Complain extends Complain {

    String description,ComplainName,des_type;

    ConnectionToDB con = new ConnectionToDB();
    Connection con_obj = con.EstablishConnection();
    PreparedStatement pstmt = null;
    Statement stmt = null;
    ResultSet res = null;
```

```
public Behavioural_Complain() {
  public Behavioural_Complain(String description, String ComplainName, String des_type, String time, String date, String type,
String status, String remarks) {
    super(time, date, type, status, remarks);
    this.description = description;
    this.ComplainName = ComplainName;
    this.des_type = des_type;
  public String getComplainName() {
    return ComplainName;
  }
  public String getDescription() {
    return description;
  public boolean searchComplain(int ID) {
    String str = "select * from Complains where ID = '" + ID + "'";
    boolean b = false;
    try {
      pstmt = con_obj.prepareStatement(str);
      res = pstmt.executeQuery();
      while (res.next()) {
        super.setType(res.getString("ComplainType"));
        ComplainName = res.getString("ComplainName");
        des_type=res.getString("DescriptionType");
```

```
description = res.getString("Description");
      super.setDate(res.getString("Date"));
      super.setTime(res.getString("Time"));
      super.setStatus(res.getString("Status"));
      super.setRemarks(res.getString("Remarks"));
      b = true;
      return b;
 } catch (Exception e) {
   JOptionPane.showMessageDialog(null, e);
   b = false;
 return b;
public boolean deleteComplain(int ID) {
 String str = "delete from Complains where ID = "" + ID + """;
 boolean b = false;
 try {
   stmt = con_obj.createStatement();
   int res = stmt.executeUpdate(str);
   if (res > 0) {
      b = true;
   } else {
      b = false;
 } catch (Exception e) {
   JOptionPane.showMessageDialog(null, e);
 return b;
```

```
public boolean addComplain() {
                                boolean b = false;
                                String sql = "insert into
Complains (ComplainType, ComplainName, DescriptionType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Status, Remarks) values (''' + super.getType() + ComplainType, Description, Date, Time, Description, Date, Description, Des
"',"" + this.ComplainName + "',"" + this.des\_type + "',"" + this.description + "',"" + super.getDate() + "',"" + super.getTime() + "',"" + this.des\_type + "'," + this.des\_type + "',
super.getStatus() + "'," + super.getRemarks() + "')";
                                try {
                                                 stmt = con_obj.createStatement();
                                                 int res = stmt.executeUpdate(sql);
                                                 if (res > 0) {
                                                                 b = true;
                                                 } else {
                                                                 JOptionPane.showMessageDialog(null, "Error");
                                                                 b = false;
                                } catch (Exception ex) {
                                                 JOptionPane.showMessageDialog(null, ex);
                                }
                                return b;
```

CLASS COMPANY:

package com.mycompany.logininterface;

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
public class Company {
  private String name, branch, email;
  Department d1;
  public Company() {
   public Company(String name, String branch, String email, Department d1) {
    this.name = name;
    this.branch = branch;
    this.email = email;
    this.d1 = d1;
  public String getName() {
    return name;
  public String getBranch() {
    return branch;
  public String getEmail() {
    return email;
```

```
}
ConnectionToDB con = new ConnectionToDB();
  Connection con_obj=con.EstablishConnection();
  PreparedStatement pstmt=null;
  Statement stmt=null;
  ResultSet res=null;
 public boolean addCompanydet() {
    boolean b = false;
    String sql = "insert into company_details(cmpName,cmpBranch,cmpEmail)values('" + this.name + "','" + this.branch + "','" +
this.email + "')";
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
        b = true;
      } else {
        JOptionPane.showMessageDialog(null, "Error");
        b = false;
      }
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    return b;
```

```
public boolean deleteComp(int ID) {
   String str = "delete from company_details where ID = "" + ID + """;
   boolean b = false;
   try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(str);
      if (res > 0) {
        b = true;
      } else {
        b = false;
   } catch (Exception e) {
      JOptionPane.showMessageDialog(null, e);
   }
   return b;
public boolean searchCmp(int ID) {
   String str = "select * from company_details where ID = "" + ID + """;
   boolean b = false;
   try {
      pstmt = con_obj.prepareStatement(str);
      res = pstmt.executeQuery();
      while (res.next()) {
         this.name = res.getString("cmpName");
        this.email = res.getString("cmpEmail");
        this.branch = res.getString("cmpBranch");
```

```
b = true;
         return b;
      }
    } catch (Exception e) {
      JOptionPane.showMessageDialog(null, e);
      b = false;
    }
    return b;
 public boolean updateComplain(int ID) {
    boolean b = false;
    String sql = "UPDATE company_details SET cmpName = "" + this.name + "',cmpEmail = "" + this.email + "',cmpBranch = "" +
this.branch + "' WHERE ID = "" + ID + """;
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
        b = true;
      } else {
         JOptionPane.showMessageDialog(null, "Error");
         b = false;
      }
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    }
    return b;
```

```
}
CLASS COMPLAIN:
package com.mycompany.logininterface;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import\ javax. swing. JOption Pane;
public class Complain {
  private String time;
  private String date;
  private String type;
 private String status;
  private String remarks;
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj = con.EstablishConnection();
  PreparedStatement pstmt = null;
  Statement stmt = null;
  ResultSet res = null;
  public Complain() {
```

```
public Complain(String time, String date, String type, String status, String remarks) {
  this.time = time;
  this.date = date;
  this.type = type;
  this.status = status;
  this.remarks = remarks;
public String getStatus() {
  return status;
public void setTime(String time) {
  this.time = time;
public void setDate(String date) {
  this.date = date;
public String getType() {
  return type;
public void setType(String type) {
  this.type = type;
public void setStatus(String status) {
  this.status = status;
public String getTime() {
  return time;
```

```
public String getDate() {
  return date;
public void setRemarks(String remarks) {
  this.remarks = remarks;
public boolean deleteComplain(int ID) {
  String str = "delete from Complains where ID = "" + ID + """;
  boolean b = false;
  try {
    stmt = con_obj.createStatement();
    int res = stmt.executeUpdate(str);
    if (res > 0) {
      b = true;
    } else {
      b = false;
  } catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
  }
  return b;
public String getRemarks() {
```

```
return remarks;
  public boolean updateCmp(int ID) {
    boolean b = false;
    String sql = "UPDATE Complains SET Status = "" + this.status + "',Remarks = "" + this.remarks + "' WHERE ID = "" + ID + """;
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
        b = true;
      } else {
        JOptionPane.showMessageDialog(null, "Error");
        b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    }
    return b;
CLASS DEPARTMENT:
package com.mycompany.logininterface;
```

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import\ javax. swing. JOption Pane;
public class Department {
  private String name,Bulding_name;
  Employee e2;
  public Department() {
  public Department(String name, String Building_name, Employee e2) {
    this.name = name;
    this.e2 = e2;
    this.Bulding_name = Building_name;
public String getBuildingName() {
    return this.Bulding_name;
  public String getName() {
    return name;
ConnectionToDB con = new ConnectionToDB();
  Connection con_obj=con.EstablishConnection();
  PreparedStatement pstmt=null;
  Statement stmt=null;
  ResultSet res=null;
 public boolean addDeptdet() {
    boolean b = false;
```

```
String sql = "insert into dept_details(deptName,buildingName)values("" + this.name + "',"" + this.Bulding_name + "')";
 try {
   stmt = con_obj.createStatement();
   int res = stmt.executeUpdate(sql);
   if (res > 0) {
      b = true;
   } else {
      JOptionPane.showMessageDialog(null, "Error");
      b = false;
   }
 } catch (Exception ex) {
   JOptionPane.showMessageDialog(null, ex);
 }
 return b;
public boolean deleteDept(int ID) {
 String str = "delete from dept_details where ID = "" + ID + """;
 boolean b = false;
 try {
   stmt = con_obj.createStatement();
   int res = stmt.executeUpdate(str);
   if (res > 0) {
```

```
b = true;
   } else {
      b = false;
 } catch (Exception e) {
   JOptionPane.showMessageDialog(null, e);
 }
 return b;
public boolean searchDep(int ID) {
 String str = "select * from dept_details where ID = "" + ID + """;
 boolean b = false;
 try {
   pstmt = con_obj.prepareStatement(str);
   res = pstmt.executeQuery();
   while (res.next()) {
      this.name = res.getString("deptName");
      this.Bulding_name = res.getString("buildingName");
      b = true;
      return b;
 } catch (Exception e) {
   JOptionPane.showMessageDialog(null, e);
   b = false;
 return b;
```

```
public boolean updateComplain(int ID) {
    boolean b = false;
    String sql = "UPDATE dept_details SET deptName = "" + this.name + "',buildingName = "" + this.Bulding_name + "' WHERE ID
= "" + ID + """;
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
         b = true;
      } else {
        JOptionPane.showMessageDialog(null, "Error");
         b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    }
    return b;
```

CLASS ENVIRONMENTAL COMPLAIN:

```
package com.mycompany.logininterface;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
```

```
import javax.swing.JOptionPane;
public class Environmental_Complain extends Complain {
  String description, ComplainName, des_type;
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj = con.EstablishConnection();
  PreparedStatement pstmt = null;
  Statement stmt = null;
  ResultSet res = null;
  public Environmental_Complain() {
  public Environmental_Complain(String description, String ComplainName, String des_type, String time, String date, String
type, String\ status, String\ remarks)\ \{
    super(time, date, type, status, remarks);
    this.description = description;
    this.ComplainName = ComplainName;
    this.des_type = des_type;
  public String getComplainName() {
    return ComplainName;
  public String getDescription() {
    return description;
```

```
public boolean addComplain() {
                  boolean b = false;
                  String sql = "insert into
Complains (Complain Type, Complain Name, Description Type, Description, Date, Time, Status, Remarks) values (''' + super.get Type () + type () +
"',"" + this.ComplainName + "',"" + this.des_type + "',"" + this.description + "',"" + super.getDate() + "',"" + super.getTime() + "',"" +
super.getStatus() + "','" + super.getRemarks() + "')";
                  \mathsf{try}\:\{
                           stmt = con_obj.createStatement();
                           int res = stmt.executeUpdate(sql);
                           if (res > 0) {
                                    b = true;
                           } else {
                                    JOptionPane.showMessageDialog(null, "Error");
                                    b = false;
                  } catch (Exception ex) {
                           JOptionPane.showMessageDialog(null, ex);
                  }
                  return b;
```

```
CLASS RECORD:
package com.mycompany.logininterface;
import java.util.Vector;
public class Record {
   Vector <Employee> EmployeeList = new Vector<>();
  public Record() {
    EmployeeList = new Vector<>();
  public void AddEmployee(Employee e){
    EmployeeList.add(e);
public void Print_Record(){
  for(int i=0;i<EmployeeList.size();i++){</pre>
    Employee employeelist= EmployeeList.elementAt(i);
    System.out.println("EMLOYEE NAME:" + employeelist.getName());
    System.out.println("EMPLOYEE CONTACT:" + employeelist.getContact());
    System.out.println("EMPLOYEE EMAIL: " + employeelist.getEmail());
    System.out.println("EMPLOYEE DESIGNATION: " + employeelist.getDesignation());
```

CLASS SALARY COMPLAIN:

```
package com.mycompany.logininterface;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
public class Salary_Complain extends Complain {
  String description, Complain Name, des_type;
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj = con.EstablishConnection();
  PreparedStatement pstmt = null;
  Statement stmt = null;
  ResultSet res = null;
  public Salary_Complain() {
  public Salary_Complain(String description, String ComplainName, String des_type, String time, String date, String type, String
status, String remarks) {
    super(time, date, type, status, remarks);
    this.description = description;
    this.ComplainName = ComplainName;
    this.des_type = des_type;
  public String getComplainName() {
    return ComplainName;
```

```
public String getDescription() {
  return description;
public boolean searchComplain(int ID) {
  String str = "select * from Complains where ID = "" + ID + """;
  boolean b = false;
  try {
    pstmt = con_obj.prepareStatement(str);
    res = pstmt.executeQuery();
    while (res.next()) {
      super.setType(res.getString("ComplainType"));\\
      ComplainName = res.getString("ComplainName");
      des_type=res.getString("DescriptionType");
      description = res.getString("Description");
      super.setDate(res.getString("Date"));
      super.setTime(res.getString("Time"));
      super.setStatus(res.getString("Status"));
      b = true;
      return b;
  } catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
    b = false;
  return b;
```

```
public boolean deleteComplain(int ID) {
                          String str = "delete from Complains where ID = "" + ID + """;
                          boolean b = false;
                          try {
                                        stmt = con_obj.createStatement();
                                        int res = stmt.executeUpdate(str);
                                        if (res > 0) {
                                                     b = true;
                                        } else {
                                                     b = false;
                          } catch (Exception e) {
                                        JOptionPane.showMessageDialog(null, e);
                          }
                          return b;
public boolean addComplain() {
                          boolean b = false;
                          String sql = "insert into
Complains (Complain Type, Complain Name, Description Type, Description, Date, Time, Status, Remarks) values (''' + super.get Type() + topological type (''' + topological type)) + topological type (''
"',"" + this. Complain Name + "',"" + this. des\_type + "',"" + this. description + "',"" + super.getDate() + "',"" + super.getTime() + "',"" + this. des_type + "'," + this.
super.getStatus() + "',,'" + super.getRemarks() + "')";
                          try {
                                        stmt = con_obj.createStatement();
                                        int res = stmt.executeUpdate(sql);
                                        if (res > 0) {
```

```
b = true;
      } else {
        JOptionPane.showMessageDialog(null, "Error");
        b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    return b;
CLASS USERNAME INFO:
package com.mycompany.logininterface;
import java.sql.Connection;
import\ java.sql. Prepared Statement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
public class UsernameInfo {
  private String username, userpass;
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj=con.EstablishConnection();
  PreparedStatement pstmt=null;
  Statement stmt=null;
```

```
ResultSet res=null;
public UsernameInfo() {
public UsernameInfo(String username, String userpass) {
  this.username = username;
  this.userpass = userpass;
public String getUsername() {
  return username;
public String getUserpass() {
  return userpass;
public boolean addusername() {
  boolean b = false;
  String sql = "insert into user_login(username,password)values("" + this.username + "',"" + this.userpass + "')";
  try {
    stmt = con_obj.createStatement();
    int res = stmt.executeUpdate(sql);
    if (res > 0) {
      b = true;
```

```
} else {
       JOptionPane.showMessageDialog(null, "Error");
       b = false;
     }
   } catch (Exception ex) {
     JOptionPane.showMessageDialog(null, ex);
   }
   return b;
 public boolean deleteUsername(int ID) {
   String str = "delete from user_login where ID = '" + ID + "'";
   boolean b = false;
   try {
     stmt = con_obj.createStatement();
     int res = stmt.executeUpdate(str);
     if (res > 0) {
       b = true;
     } else {
       b = false;
     }
   } catch (Exception e) {
     JOptionPane.showMessageDialog(null, e);
   }
   return b;
public boolean searchUsername(int ID) {
```

```
String str = "select * from user_login where ID = "" + ID + """;
    boolean b = false;
    try {
      pstmt = con_obj.prepareStatement(str);
      res = pstmt.executeQuery();
      while (res.next()) {
         this.username = res.getString("username");
        this.userpass = res.getString("password");
        b = true;
        return b;
    } catch (Exception e) {
      JOptionPane.showMessageDialog(null, e);
      b = false;
    return b;
public boolean loginUser() {
    String loginString = "Select * from user_login where username="" +this.username+ "" and password="" +this.userpass+ """;
    boolean b;
    try {
      pstmt = con_obj.prepareStatement(loginString);
      res = pstmt.executeQuery();
      if (res.next()) {
```

```
b = true;
      } else {
        b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
      b = false;
    }
    return b;
CLASS ADMIN DISPLAY:
package com.mycompany.logininterface;
import java.sql.Connection;
import\ java.sql. Prepared Statement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
* @author hp
*/
public class admindispaly {
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj=con.EstablishConnection();
  PreparedStatement pstmt=null;
```

```
Statement stmt=null;
ResultSet res=null;
private String name, email, desig, number;
public boolean searchEmp(int ID) {
  String str = "select * from tbl_login where ID = "" + ID + """;
  boolean b = false;
  try {
    pstmt = con_obj.prepareStatement(str);
    res = pstmt.executeQuery();
    while (res.next()) {
      name = res.getString("Fullname");
      email = res.getString("email");
      number = res.getString("number");
      desig = res.getString("designation");
      b = true;
      return b;
  } catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
    b = false;
  return b;
public String getName() {
  return name;
public String getEmail() {
```

```
return email;
}

public String getDesig() {
  return desig;
}

public String getNumber() {
  return number;
}
```

DATABASE CONNECTION CLASSES:

CONNECTION TO DB CLASS:

```
package com.mycompany.logininterface;
import java.sql.Connection;
import java.sql.DriverManager;
import javax.swing.JOptionPane;

public class ConnectionToDB {
    Connection con = null;

    public Connection EstablishConnection() {
        try {
            Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
            con= DriverManager.getConnection("jdbc:ucanaccess://E:\\test.accdb");
        // JOptionPane.showMessageDialog(null, "connected");
    }
    catch(Exception ex)
    {
```

```
JOptionPane.showMessageDialog(null, ex);
}
return con;
}
```

CLASS ESTABLISH CONNECTION:

```
package com.mycompany.logininterface;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
* @author hp
*/
public class EstablishConnection {
  ConnectionToDB con = new ConnectionToDB();
  Connection con_obj=con.EstablishConnection();
  PreparedStatement pstmt=null;
  Statement stmt=null;
  ResultSet res=null;
  private String name, id, password;
  public String getName() {
    return name;
```

```
public String getId() {
    return id;
  }
  public String getPassword() {
    return password;
  }
  public boolean loginAdmin(String auname, String apass) {
    String loginString = "Select * from admin_login where username="" +auname+ "" and password="" +apass+ """;
    boolean b;
    try {
      pstmt = con_obj.prepareStatement(loginString);
      res = pstmt.executeQuery();
      if (res.next()) {
         b = true;
      } else {
        b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
      b = false;
    return b;
public boolean loginUser(String auname, String apass) {
```

```
String loginString = "Select * from user_login where username="" +auname+ "' and password="" +apass+ """;
    boolean b;
    try {
      pstmt = con_obj.prepareStatement(loginString);
      res = pstmt.executeQuery();
      if (res.next()) {
        b = true;
      } else {
        b = false;
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
      b = false;
    }
    return b;
  }
public boolean loginLibrarian() {
    String loginString = "Select * from Librarian where Librarian_Name="" +this.name+ "' and Librarian_Password=""
+this.password+ """;
    boolean b;
    try {
      pstmt = con_obj.prepareStatement(loginString);
      res = pstmt.executeQuery();
```

```
if (res.next()) {
         b = true;
      } else {
         b = false;
    } catch (Exception ex) {
      {\sf JOptionPane.showMessageDialog(null, ex);}
      b = false;
    }
    return b;
public boolean addEmpdet(String name, String email, String num, String desig) {
    boolean b = false;
    String sql = "insert into Table1(Fullname,email,number,Designation)values('" + name + "','" + email + "','" + num +"','" + desig
+"')";
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
         b = true;
      } else {
         JOptionPane.showMessageDialog(null, "Error");
```

```
b = false;
  } catch (Exception ex) {
    JOptionPane.showMessageDialog(null, ex);
  }
  return b;
public boolean deleteAdmin(int ID) {
  String str = "delete from tbl_login where ID = '" + ID + "'";
  boolean b = false;
  try {
    stmt = con_obj.createStatement();
    int res = stmt.executeUpdate(str);
    if (res > 0) {
      b = true;
    } else {
      b = false;
  } catch (Exception e) {
    JOptionPane.showMessageDialog(null, e);
  return b;
```

```
boolean b = false;
    String sql = "insert into user_login(username,password)values("" + name + "',"" + password + "')";
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
         b = true;
      } else {
         JOptionPane.showMessageDialog(null, "Error");
         b = false;
      }
    } catch (Exception ex) {
      JOptionPane.showMessageDialog(null, ex);
    }
    return b;
public boolean searchAdmin(int ID) {
    String str = "select * from tbl_login where ID = "" + ID + """;
    boolean b = false;
    try {
```

```
pstmt = con_obj.prepareStatement(str);
      res = pstmt.executeQuery();
      while (res.next()) {
        name = res.getString("Name");
        password = res.getString("Password");
        id = res.getString("UserName");
        b = true;
        return b;
      }
    } catch (Exception e) {
      JOptionPane.showMessageDialog(null, e);
      b = false;
    return b;
public boolean updatePassword(String auname, String apass) {
    boolean b = false;
    String sql = "UPDATE tbl_login set Password = "" + apass + "' WHERE UserName = "" + auname + "" ";
    try {
      stmt = con_obj.createStatement();
      int res = stmt.executeUpdate(sql);
      if (res > 0) {
        b = true;
      } else {
        JOptionPane.showMessageDialog(null, "Error");
        b = false;
```

```
}
}
catch (Exception ex) {
    JOptionPane.showMessageDialog(null, ex);
}
return b;
}
```

8. **CONCLUSION:**

Our Complaint Management System's easy access and flexibility allow the admin to maintain a constant contact with the employees even if they are not in the office. It also saves their time and money by allowing them to communicate with their employees through an online platform.

We learned a lot while coding this project, hope you like it.