

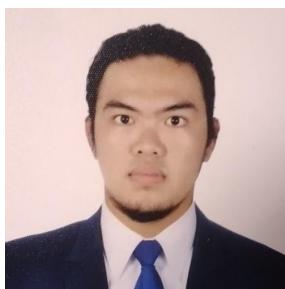


**TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES
MANILA CAMPUS**

COLLEGE OF INFORMATION TECHNOLOGY EDUCATION

**PROJECT:
EMPLOYEE MANAGEMENT SYSTEM**

CCS 201 - CS21FA1
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Background

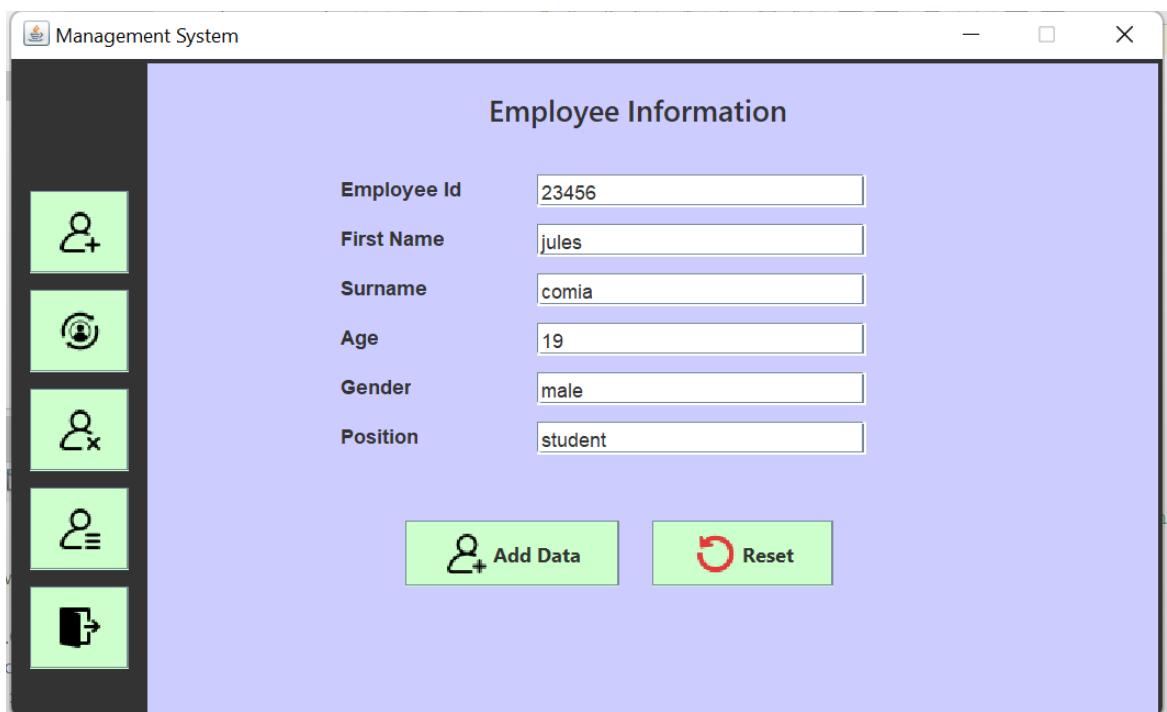
Databases are being used in this project to combine resources and information. You can use it to add, amend, delete, and view a list of the personnel who are accurately recorded in the database we created for the project. This project was developed through our learning from our previous studies

Discussion of the Project

User's Manual

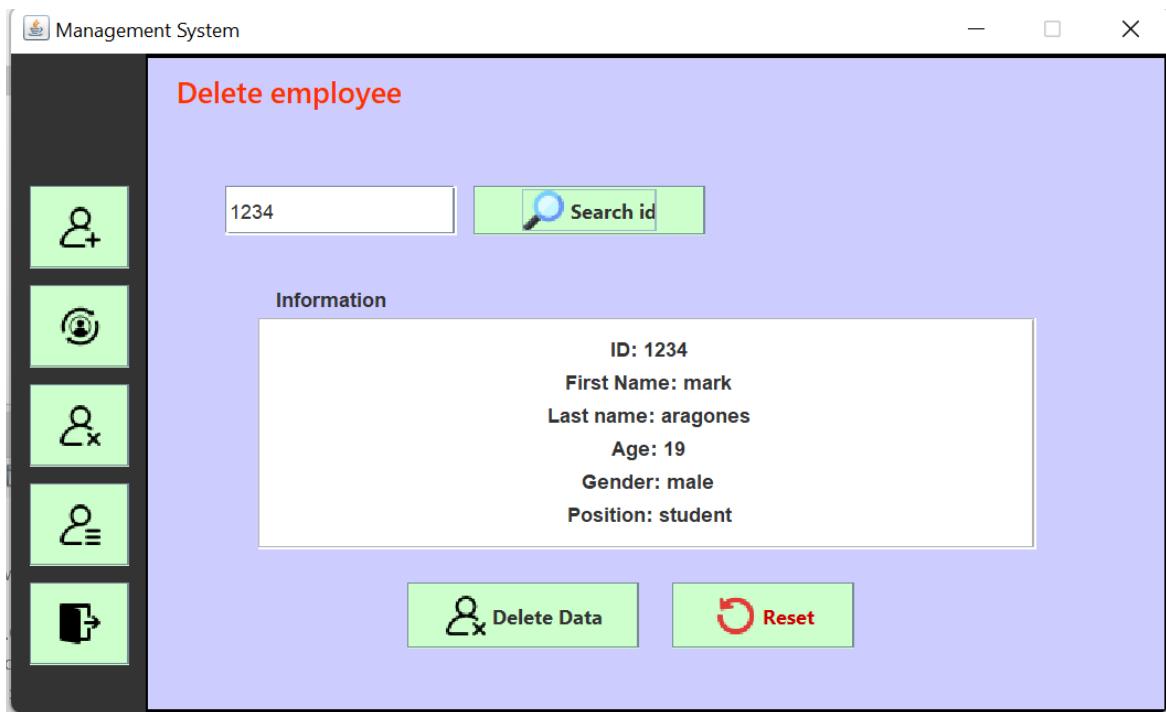
1. Employee Information

- Input the needed information into the following fields. Once finished, press the add data button in order to add the data into the database. If clearing the fields is needed, press the reset button.



2. Delete Employee

- If it is needed to delete the data of an employee from the database, input the ID number of the employee into the search bar. Press search to show the data from the matching ID number. Press the Delete Data button in order to delete employee's data from the database.



3. Update Employee

- If certain credentials are needed to be changed or updated, input the ID number of the employee into the search bar. Once found, it will show the information of the employee in the following fields. Clear the field that you want to change, then input the new data. Press update data in order to save changes.

The screenshot shows a software application window titled "Management System". On the left is a vertical sidebar with five icons: a person plus sign, a person with a magnifying glass, a person with an 'x', a person with a list, and a document with a pencil. The main area is titled "Update employee". It contains a search bar with the ID "23456" and a "Search id" button. Below this are four pairs of input fields: "ID" (23456), "Age" (19); "First name" (jules), "Gender" (male); "Last name" (comia), "Position" (student). At the bottom are two buttons: "Update Data" (green background with white icon) and "Reset" (red background with white icon).

4. Employees

- This is for showing the information of the different employees that the employees have inputted in Employee Information and stored in our database.

The screenshot shows a software interface titled "Management System". On the left, there is a vertical sidebar with five green icons: a person with a plus sign, a person with a minus sign, a person with a cross, a person with a double line, and a document with a double arrow. The main area is titled "Employees" and contains a table with the following data:

ID	First name	Surname	Age	Gender	Position
0987	bryan	lubrica	20	male	student
1234	mark	aragones	19	male	student
23456	jules	comia	19	male	student
5678	nico	bordeos	19	male	student

Code Compilation with IDE

The screenshot shows two instances of the Apache NetBeans IDE interface. Both instances have the title bar "Management_System - Apache NetBeans IDE ...". The top instance shows the code for `ManagementSystem.java` with the following imports:

```
import javax.swing.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.util.Vector;
import javax.swing.table.DefaultTableModel;
```

The class definition starts with:

```
public class ManagementSystem extends javax.swing.JFrame {
```

It includes several private static final String variables:

```
private static final String username = "root";
private static final String password = "secret";
private static final String dataConn = "jdbc:mysql://localhost:3306/connector";
```

And a constructor:

```
public ManagementSystem() {
    initComponents();
}
```

The bottom instance shows the same code with additional annotations and comments:

```
@SuppressWarnings("unchecked")
Generated Code
```

The annotated code includes three private void methods:

```
private void jbtn_ResetActionPerformed(java.awt.event.ActionEvent evt) {
    jtxt_Id.setText("");
    jtxt_FirstName.setText("");
    jtxt_Surname.setText("");
    jtxt_Age.setText("");
    jtxt_Gender.setText("");
    jtxt_Position.setText("");
}

private void jbtn_AddActionPerformed(java.awt.event.ActionEvent evt) {
    AddEmployee.setVisible(aFlag:true);
    UpdateEmployee.setVisible(aFlag:false);
    DeleteEmployee.setVisible(aFlag:false);
    Employees.setVisible(aFlag:false);
}

private void jbtn_UpdateActionPerformed(java.awt.event.ActionEvent evt) {
    AddEmployee.setVisible(aFlag:false);
    UpdateEmployee.setVisible(aFlag:true);
    DeleteEmployee.setVisible(aFlag:false);
    Employees.setVisible(aFlag:false);
}
```

Both instances show the status bar at the bottom with system information like "29°C Cloudy", "Search the web", and "ENG US".

Management_System - Apache NetBeans IDE

ManagementSystem.java

```

    Employees.setVisible( aFlag: false );
}

private void jbtn_DeleteActionPerformed(java.awt.event.ActionEvent evt) {
    AddEmployee.setVisible( aFlag: false );
    UpdateEmployee.setVisible( aFlag: false );
    DeleteEmployee.setVisible( aFlag: true );
    Employees.setVisible( aFlag: false );
}

private void jbtn_ViewActionPerformed(java.awt.event.ActionEvent evt) {
    AddEmployee.setVisible( aFlag: false );
    UpdateEmployee.setVisible( aFlag: false );
    DeleteEmployee.setVisible( aFlag: false );
    Employees.setVisible( aFlag: true );

    try{
        Class.forName( className:"com.mysql.jdbc.Driver");
        sqlConn = DriverManager.getConnection( url:dataConn, user:username, password);
        pst = sqlConn.prepareStatement( string:"select * from connector");
        rs = pst.executeQuery();
        ResultSetMetaData stData = rs.getMetaData();

        q = stData.getColumnCount();

        DefaultTableModel RecordTable = (DefaultTableModel)jTable4.getModel();
        RecordTable.setRowCount( rowCount:0 );
    }
}

```

ManagementSystem > jbtn_UpdateActionPerformed

ManagementSystem.java

```

while(rs.next()){
    Vector columnData = new Vector();

    for ( i = 1; i <=q; i++){
        columnData.add( rs.getString( string:"EmployeeID"));
        columnData.add( rs.getString( string:"FirstName"));
        columnData.add( rs.getString( string:"LastName"));
        columnData.add( rs.getString( string:"Age"));
        columnData.add( rs.getString( string:"Gender"));
        columnData.add( rs.getString( string:"Position"));
    }
    RecordTable.addRow( rowData:columnData);
}

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

}

private JFrame frame;
private void jbtn_ExitActionPerformed(java.awt.event.ActionEvent evt) {
    frame = new JFrame( title:"Exit");
    if(JOptionPane.showConfirmDialog( parentComponent: frame, message:"Are you sure you want to exit?", title:"Management System
    System.exit( status:0 );
}

```

ManagementSystem > jbtn_UpdateActionPerformed

Screenshot 1: Apache NetBeans IDE - Management_System

The screenshot shows the Apache NetBeans IDE interface for a Java application named "Management_System". The main window displays the code for the "ManagementSystem.java" file, specifically the "jbtn_AddDataActionPerformed" method. The code handles the insertion of new employee data into a MySQL database using JDBC. It includes validation logic to ensure all required fields (EmployeeID, FirstName, LastName, Age, Gender, Position) are populated before executing the update statement. If any field is empty, it shows an error dialog.

```

private void jbtn_AddDataActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        Class.forName( className:"com.mysql.jdbc.Driver");
        sqlConn = DriverManager.getConnection(url:dataConn, user:username, password);
        pst = sqlConn.prepareStatement("insert into connector(EmployeeID,FirstName,LastName,Age,Gender,Position)values(?,?,?,?,?,?)");

        if"".equals( anObject:jtxt_Id.getText()) || "".equals( anObject:jtxt_FirstName.getText()) || "".equals( anObject:jtxt_Age.getText());
        JOptionPane.showMessageDialog( parentComponent:this, message:"invalid Empty data");
    }else{
        pst.setString( i:1, string:jtxt_Id.getText());
        pst.setString( i:2, string:jtxt_FirstName.getText());
        pst.setString( i:3, string:jtxt_Surname.getText());
        pst.setString( i:4, string:jtxt_Age.getText());
        pst.setString( i:5, string:jtxt_Gender.getText());
        pst.setString( i:6, string:jtxt_Position.getText());

        pst.executeUpdate();
        JOptionPane.showMessageDialog( parentComponent:this, message:"Data Added");
    }

    jtxt_Id.setText( t:"");
    jtxt_FirstName.setText( t:"");
    jtxt_Surname.setText( t:"");
    jtxt_Age.setText( t:"");
    jtxt_Gender.setText( t:"");
    jtxt_Position.setText( t:"");
}

```

Screenshot 2: Apache NetBeans IDE - Management_System

This screenshot shows the same Apache NetBeans IDE interface, but the code editor is displaying the "jbtn_UpdateActionPerformed" method. This method is responsible for updating existing employee data in the database. It retrieves six input parameters from text fields (EmployeeID, FirstName, LastName, Age, Gender, Position) and constructs an SQL UPDATE statement. The code uses JDBC to connect to the MySQL database and execute the update query.

```

jtxt_Gender.setText( t:"");
jtxt_Position.setText( t:"");

}catch (ClassNotFoundException ex) {
    java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName()).log( level:java.util.logging.Level.SEVERE);
}catch (SQLException ex) {
    java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName()).log( level:java.util.logging.Level.SEVERE);
}

private void jbtn_UpdateActionPerformed(java.awt.event.ActionEvent evt) {
    try{

        String value1 = jtxt_EditID.getText();
        String value2 = jtxt_EditFirstName.getText();
        String value3 = jtxt_EditLastName.getText();
        String value4 = jtxt_EditAge.getText();
        String value5 = jtxt_EditGender.getText();
        String value6 = jtxt_EditPosition.getText();

        Class.forName( className:"com.mysql.jdbc.Driver");
        sqlConn = DriverManager.getConnection(url:dataConn, user:username, password);
        pst = sqlConn.prepareStatement("update connector set EmployeeID='"+value1+"', FirstName='"+value2+"', LastName='"+value3+"', Age='"+value4+"', Gender='"+value5+"', Position='"+value6+"' where EmployeeID='"+value1+"'");

        if"".equals( anObject:value1) || "".equals( anObject:value2) || "".equals( anObject:value3)|| "".equals( anObject:value4)|| "".equals( anObject:value5)|| "".equals( anObject:value6)
        JOptionPane.showMessageDialog( parentComponent:this, message:"invalid Empty data");
    }
}

```

Management_System - Apache NetBeans IDE

Start Page | ManagementSystem.java | Source | Design | History | Search (Ctrl+F)

```

582         JOptionPane.showMessageDialog(parentComponent: this, message: "invalid Empty data");
583     }else{
584         pst.executeUpdate();
585         JOptionPane.showMessageDialog(parentComponent: this, message: "Data Updated");
586         jtxt_EditID.setText("");
587         jtxt_EditFirstName.setText("");
588         jtxt_EditLastName.setText("");
589         jtxt_EditAge.setText("");
590         jtxt_EditGender.setText("");
591         jtxt_EditPosition.setText("");
592         jtxt_searchId.setText("");
593     }
594 }
595 }catch (ClassNotFoundException ex) {
596     java.util.logging.Logger.getLogger(name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE);
597 }catch (SQLException ex) {
598     java.util.logging.Logger.getLogger(name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE);
599 }
600 }
601 private void jbtn_SearchIdActionPerformed(java.awt.event.ActionEvent evt) {
602     try{
603         Class.forName(className: "com.mysql.jdbc.Driver");
604         sqlConn = DriverManager.getConnection(url: dataConn, user: username, password);
605         pst = sqlConn.prepareStatement(string: "select EmployeeID,FirstName,LastName,Age,Gender,Position from connector where EmployeeID = ?");
606         String EmployeeID = jtxt_searchId.getText();
607         pst.setString(1, string: EmployeeID);
608     }
609 }

```

ManagementSystem > jbtn_UpdateActionPerformed

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Management_System - Apache NetBeans IDE ... Search (Ctrl+F)

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Management_System - Apache NetBeans IDE

Start Page | ManagementSystem.java | Source | Design | History | Search (Ctrl+F)

```

609     ResultSet rsl = pst.executeQuery();
610
611     if(rsl.next() == false){
612         JOptionPane.showMessageDialog(parentComponent: this, message: "Record Not Found");
613         jtxt_EditID.setText("");
614         jtxt_EditFirstName.setText("");
615         jtxt_EditLastName.setText("");
616         jtxt_EditAge.setText("");
617         jtxt_EditGender.setText("");
618         jtxt_EditPosition.setText("");
619         jtxt_searchId.setText("");
620     }
621
622     jtxt_EditID.setText(string: rsl.getString(string: "EmployeeID"));
623     jtxt_EditFirstName.setText(string: rsl.getString(string: "FirstName"));
624     jtxt_EditLastName.setText(string: rsl.getString(string: "LastName"));
625     jtxt_EditAge.setText(string: rsl.getString(string: "Age"));
626     jtxt_EditGender.setText(string: rsl.getString(string: "Gender"));
627     jtxt_EditPosition.setText(string: rsl.getString(string: "Position"));
628
629 }
630 }catch (ClassNotFoundException ex) {
631     java.util.logging.Logger.getLogger(name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE);
632 }catch (SQLException ex) {
633     java.util.logging.Logger.getLogger(name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE);
634 }

```

ManagementSystem > jbtn_UpdateActionPerformed

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Projects X Start Page X ManagementSystem.java X Source Design History Search (Ctrl+F)

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Management_System - Apache NetBeans IDE ...

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Source Design History

```

633     java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName() ).log( level:java.util.logging.Level.SEVERE );
634 }
635 }
636
637 private void jbtn_DeleteDataActionPerformed(java.awt.event.ActionEvent evt) {
638
639     try{
640         Class.forName( className: "com.mysql.jdbc.Driver" );
641         sqlConn = DriverManager.getConnection( url:dataConn, user:username, password );
642         pst = sqlConn.prepareStatement( string:"Delete from connector where EmployeeID=?");
643         pst.setString( 1, string:jtxt_searchIdToDelete.getText() );
644
645
646         if("".equals( anObject: jtxt_searchIdToDelete.getText() )){
647             JOptionPane.showMessageDialog( parentComponent: this, message:"invalid Empty data" );
648         }else{
649
650             pst.executeUpdate();
651             JOptionPane.showMessageDialog( parentComponent: this, message:"Data Deleted" );
652             jLabel_id.setText( text:"" );
653             jLabel_firstname.setText( text:"" );
654             jLabel_lastname.setText( text:"" );
655             jLabel_age.setText( text:"" );
656             jLabel_gender.setText( text:"" );
657             jLabel_position.setText( text:"" );
658             jtxt_searchIdToDelete.setText( text:"" );
659         }
660     }
661
662     catch (ClassNotFoundException ex) {
663         java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName() ).log( level:java.util.logging.Level.SEVERE );
664     }catch (SQLException ex) {
665         java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName() ).log( level:java.util.logging.Level.SEVERE );
666     }
667
668 private void jbtn_SearchIdToDeleteActionPerformed(java.awt.event.ActionEvent evt) {
669
670     try{
671         Class.forName( className: "com.mysql.jdbc.Driver" );
672         sqlConn = DriverManager.getConnection( url:dataConn, user:username, password );
673         pst = sqlConn.prepareStatement( string:"Select EmployeeID,FirstName,LastName,Age,Gender,Position from connector where EmployeeID=?");
674         String EmployeeID = jtxt_searchIdToDelete.getText();
675         pst.setString( 1, string:EmployeeID );
676         ResultSet rs1 = pst.executeQuery();
677
678         if(rs1.next() == false){
679             JOptionPane.showMessageDialog( parentComponent: this, message:"Record Not Found" );
680             jLabel_id.setText( text:"" );
681             jLabel_firstname.setText( text:"" );
682             jLabel_lastname.setText( text:"" );
683             jLabel_age.setText( text:"" );
684         }
685     }
686
687     catch (ClassNotFoundException ex) {
688         java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName() ).log( level:java.util.logging.Level.SEVERE );
689     }catch (SQLException ex) {
690         java.util.logging.Logger.getLogger( name:ManagementSystem.class.getName() ).log( level:java.util.logging.Level.SEVERE );
691     }
692
693 }

```

ManagementSystem > jbtn_UpdateActionPerformed

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Cloudy 29°C

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Management_System - Apache NetBeans IDE ...

Source Design History

Management_System - Apache NetBeans IDE ...

Start Page X ManagementSystem.java X

Source Design History

```

684     jLabel_gender.setText("text: "");
685     jLabel_position.setText("text: "");
686     jTextField_searchIdToDelete.setText("text: "");

687 }else{
688
689     String val1 = rsl.getString("string: "EmployeeID");
690     String val2 = rsl.getString("string: "FirstName");
691     String val3 = rsl.getString("string: "LastName");
692     String val4 = rsl.getString("string: "Age");
693     String val5 = rsl.getString("string: "Gender");
694     String val6 = rsl.getString("string: "Position");
695
696     jLabel_id.setText("ID: " + val1);
697     jLabel_firstname.setText("First Name: " + val2);
698     jLabel_lastname.setText("Last name: " + val3);
699     jLabel_age.setText("Age: " + val4);
700     jLabel_gender.setText("Gender: " + val5);
701     jLabel_position.setText("Position: " + val6);
702
703 }

704 }catch (ClassNotFoundException ex) {
705     java.util.logging.Logger.getLogger("name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE
706 }catch (SQLException ex) {
707     java.util.logging.Logger.getLogger("name: ManagementSystem.class.getName()).log(level: java.util.logging.Level.SEVERE
708 }
709
710 }

711 private void jButton_ResetActionPerformed(java.awt.event.ActionEvent evt) {
712
713     jTextField_EditID.setText("text: "");
714     jTextField_EditFirstName.setText("text: "");
715     jTextField_EditLastName.setText("text: "");
716     jTextField_EditAge.setText("text: "");
717     jTextField_EditGender.setText("text: "");
718     jTextField_EditPosition.setText("text: "");
719     jTextField_SearchIdToDelete.setText("text: "");

720 }

721 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
722
723     jLabel_id.setText("text: "");
724     jLabel_firstname.setText("text: "");
725     jLabel_lastname.setText("text: "");
726     jLabel_age.setText("text: """);
727     jLabel_gender.setText("text: """);
728     jLabel_position.setText("text: """);
729     jTextField_searchIdToDelete.setText("text: "");

730 }

731 private void jTextField_EditLastNameActionPerformed(java.awt.event.ActionEvent evt) {
732
733     // TODO add your handling code here:
734 }

735
736
737 public static void main(String args[]) {
738
739 }

```

ManagementSystem > jbtn_UpdateActionPerformed >

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Cloudy 29°C

Management_System - Apache NetBeans IDE ...

Start Page X ManagementSystem.java X

Source Design History

```

711 private void jButton_ResetActionPerformed(java.awt.event.ActionEvent evt) {
712
713     jTextField_EditID.setText("text: "");
714     jTextField_EditFirstName.setText("text: "");
715     jTextField_EditLastName.setText("text: "");
716     jTextField_EditAge.setText("text: "");
717     jTextField_EditGender.setText("text: "");
718     jTextField_EditPosition.setText("text: "");
719     jTextField_SearchIdToDelete.setText("text: "");

720 }

721 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
722
723     jLabel_id.setText("text: "");
724     jLabel_firstname.setText("text: "");
725     jLabel_lastname.setText("text: "");
726     jLabel_age.setText("text: """);
727     jLabel_gender.setText("text: """);
728     jLabel_position.setText("text: """);
729     jTextField_searchIdToDelete.setText("text: "");

730 }

731 private void jTextField_EditLastNameActionPerformed(java.awt.event.ActionEvent evt) {
732
733     // TODO add your handling code here:
734 }

735
736
737 public static void main(String args[]) {
738
739 }

```

ManagementSystem > jbtn_UpdateActionPerformed >

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Cloudy 29°C

Management_System - Apache NetBeans IDE ...

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Source Design History

```

732
733     private void jtxt_EditLastNameActionPerformed(java.awt.event.ActionEvent evt) {
734         // TODO add your handling code here:
735     }
736
737     public static void main(String args[]) {
738
739         java.awt.EventQueue.invokeLater(new Runnable() {
740             public void run() {
741                 new ManagementSystem().setVisible(true);
742             }
743         });
744     }
745
746
747     // Variables declaration - do not modify
748     private javax.swing.JPanel AddEmployee;
749     private javax.swing.JPanel DeleteEmployee;
750     private javax.swing.JPanel Employees;
751     private javax.swing.JPanel Home;
752     private javax.swing.JPanel Menu;
753     private javax.swing.JPanel UpdateEmployee;
754     private javax.swing.JButton jButton1;
755     private javax.swing.JLabel jLabel1;
756     private javax.swing.JLabel jLabel11;
757     private javax.swing.JLabel jLabel12;
758     private javax.swing.JLabel jLabel13;
759     private javax.swing.JLabel jLabel14;
760     private javax.swing.JLabel jLabel15;
761     private javax.swing.JLabel jLabel16;
762     private javax.swing.JLabel jLabel17;
763     private javax.swing.JLabel jLabel18;
764     private javax.swing.JLabel jLabel19;
765     private javax.swing.JLabel jLabel2;
766     private javax.swing.JLabel jLabel20;
767     private javax.swing.JLabel jLabel21;
768     private javax.swing.JLabel jLabel22;
769     private javax.swing.JLabel jLabel23;
770     private javax.swing.JLabel jLabel24;
771     private javax.swing.JLabel jLabel25;
772     private javax.swing.JLabel jLabel26;
773     private javax.swing.JLabel jLabel27;
774     private javax.swing.JLabel jLabel28;
775     private javax.swing.JLabel jLabel29;
776     private javax.swing.JLabel jLabel3;
777     private javax.swing.JLabel jLabel30;
778     private javax.swing.JPanel jPanel1;
779     private javax.swing.JScrollPane jScrollPane4;
780     private javax.swing.JTable jTable4;
781     private javax.swing.JButton jButton3;
782     private javax.swing.JButton jButton4;
    
```

ManagementSystem > jbtn_UpdateActionPerformed

47:1 INS Unix (LF)

Cloudy 29°C

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Management_System - Apache NetBeans IDE ...

Source Design History

```

756     private javax.swing.JLabel jLabel1;
757     private javax.swing.JLabel jLabel11;
758     private javax.swing.JLabel jLabel12;
759     private javax.swing.JLabel jLabel13;
760     private javax.swing.JLabel jLabel14;
761     private javax.swing.JLabel jLabel15;
762     private javax.swing.JLabel jLabel16;
763     private javax.swing.JLabel jLabel17;
764     private javax.swing.JLabel jLabel18;
765     private javax.swing.JLabel jLabel19;
766     private javax.swing.JLabel jLabel2;
767     private javax.swing.JLabel jLabel20;
768     private javax.swing.JLabel jLabel21;
769     private javax.swing.JLabel jLabel22;
770     private javax.swing.JLabel jLabel23;
771     private javax.swing.JLabel jLabel24;
772     private javax.swing.JLabel jLabel25;
773     private javax.swing.JLabel jLabel26;
774     private javax.swing.JLabel jLabel27;
775     private javax.swing.JLabel jLabel28;
776     private javax.swing.JLabel jLabel29;
777     private javax.swing.JLabel jLabel3;
778     private javax.swing.JPanel jPanel1;
779     private javax.swing.JScrollPane jScrollPane4;
780     private javax.swing.JTable jTable4;
781     private javax.swing.JButton jButton3;
782     private javax.swing.JButton jButton4;
    
```

ManagementSystem > jbtn_UpdateActionPerformed

47:1 INS Unix (LF)

Cloudy 29°C

Screenshot of Apache NetBeans IDE showing the source code for ManagementSystem.java. The code defines a class with various private instance variables for JButton and JTextField components.

```
private javax.swing.JTable jTable4;
private javax.swing.JButton jButton_Add;
private javax.swing.JButton jButton_AddData;
private javax.swing.JButton jButton_Delete;
private javax.swing.JButton jButton_DeleteData;
private javax.swing.JButton jButton_Exit;
private javax.swing.JButton jButton_Reset;
private javax.swing.JButton jButton_Reset1;
private javax.swing.JButton jButton_SearchId;
private javax.swing.JButton jButton_SearchIdToDelete;
private javax.swing.JButton jButton_Update;
private javax.swing.JButton jButton_UpdateData;
private javax.swing.JButton jButton_View;
private javax.swing.JTextField jTextField_Age;
private javax.swing.JTextField jTextField_EditAge;
private javax.swing.JTextField jTextField_EditFirstName;
private javax.swing.JTextField jTextField_EditGender;
private javax.swing.JTextField jTextField_EditID;
private javax.swing.JTextField jTextField_EditLastName;
private javax.swing.JTextField jTextField_EditPosition;
private javax.swing.JTextField jTextField_FirstName;
private javax.swing.JTextField jTextField_Gender;
private javax.swing.JTextField jTextField_Id;
private javax.swing.JTextField jTextField_Position;
private javax.swing.JTextField jTextField_Surname;
private javax.swing.JTextField jTextField_searchId;
private javax.swing.JTextField jTextField_searchIdToDelete;
```

Screenshot of Apache NetBeans IDE showing the source code for ManagementSystem.java. The code continues from the previous snippet, defining a block of variables and ending with a closing brace.

```
private javax.swing.JButton jButton_Reset;
private javax.swing.JButton jButton_Reset1;
private javax.swing.JButton jButton_SearchId;
private javax.swing.JButton jButton_SearchIdToDelete;
private javax.swing.JButton jButton_Update;
private javax.swing.JButton jButton_UpdateData;
private javax.swing.JButton jButton_View;
private javax.swing.JTextField jTextField_Age;
private javax.swing.JTextField jTextField_EditAge;
private javax.swing.JTextField jTextField_EditFirstName;
private javax.swing.JTextField jTextField_EditGender;
private javax.swing.JTextField jTextField_EditID;
private javax.swing.JTextField jTextField_EditLastName;
private javax.swing.JTextField jTextField_EditPosition;
private javax.swing.JTextField jTextField_FirstName;
private javax.swing.JTextField jTextField_Gender;
private javax.swing.JTextField jTextField_Id;
private javax.swing.JTextField jTextField_Position;
private javax.swing.JTextField jTextField_Surname;
private javax.swing.JTextField jTextField_searchId;
private javax.swing.JTextField jTextField_searchIdToDelete;
// End of variables declaration
```

Conclusion

-The purpose of this project is to discuss how we Registered the employee, delete the employee and search the Id of the employee. This Project learns about databases like Microsoft Access and SQL, as well as specifics like OAI protocol and network performance problems. We comprehend the ideas behind indexing and searching, as well as how to put the flow of this project.

Individual Reflections:

Jules Patrick Comia

- My reflection on our project is having other knowledge from my group mates and being excited while waiting for our project to finish and as a part of the group I know that I have knowledge that I learn in every discussion.

Mark Vincent Aragones

- My assessment of our project is that there are a number of difficulties with its implementation. So we decided to create a better method of planning programming projects offered by object-oriented programming. It offers strong tools for code organization and reuse, including inheritance.

Bryan Lubrica

- My perspective on programming has changed quite a bit over the years. Even in the few years since I started this course I've noticed that I look at programming differently than I used to. If there's anything people who work with technology need to get used to, it has changed, and I expect that my perspective will continue to evolve in the years to come. This is an attempt to take a snapshot of how I look at programming right now and how it's different from the recent past. AS for the future, I'm not capable of speculating. As for now i hate it.

Nico Louise Bordeos

- My perspective on this subject has been a mix of emotions, it has not been an easy ride. Having to learn a different style of programming was a big challenge for me, some of the lessons took more time to learn while others were a bit more to the easier side of things. But one thing I've learned from this subject is that we shouldn't be easily discouraged, it might be hard but at some point you'll be able to find the error that has been bothering the output of your program. I wouldn't say I'm skilled yet at programming but I can say that I have learned a lot from creating this project.

Honor Pledge for Group Projects

“I accept responsibility for my role in ensuring the integrity of the work submitted by the group in which I participated.”