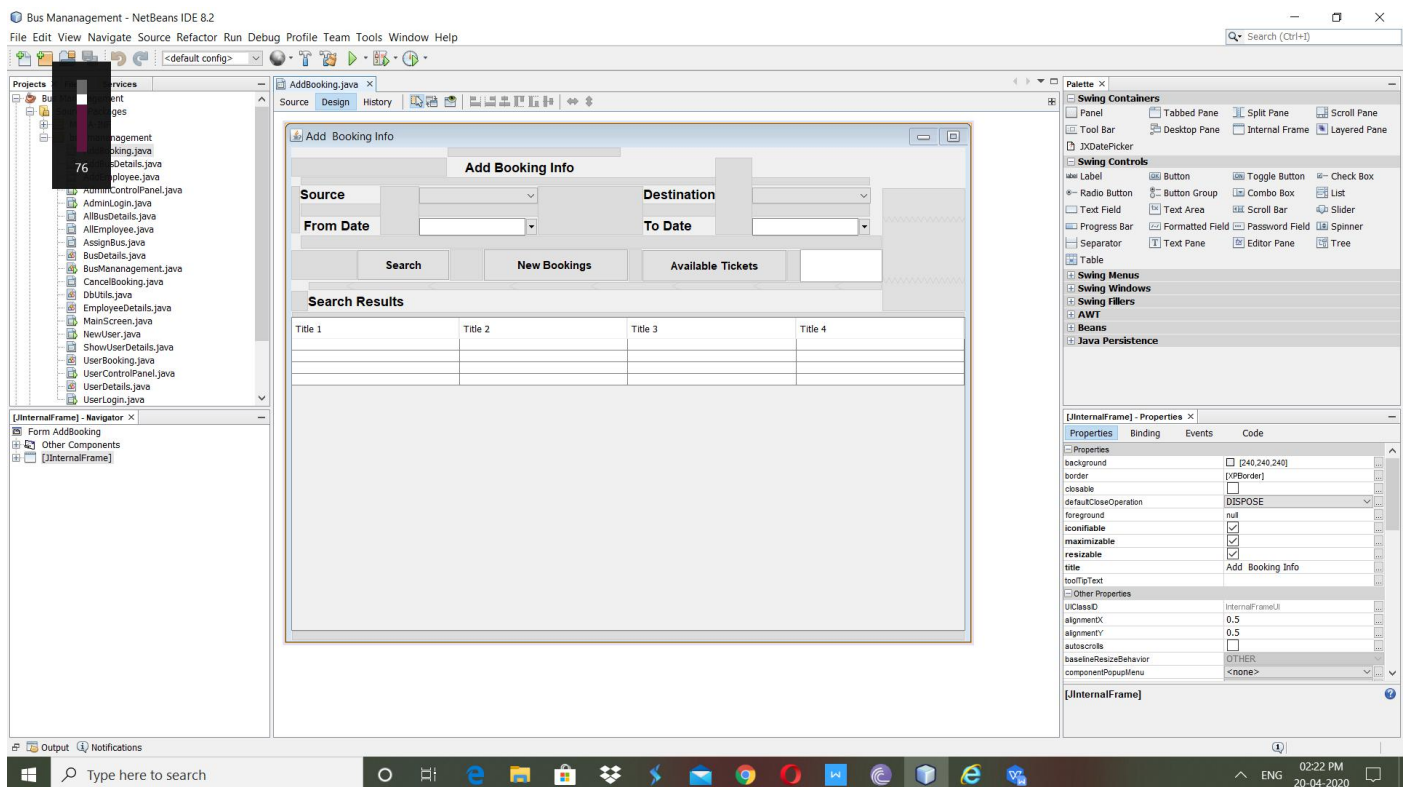


# BUS RESERVATION SYSTEM : DBMS CASESTUDY (TEAM 1)



## JAVA CODE FOR ADD BOOKING JFRAME FORM:-

```
package bus.management;
import java.awt.GridLayout;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import javax.swing.JComboBox;
import javax.swing.JDesktopPane;
import javax.swing.JFrame;
import javax.swing.JLabel;

import javax.swing.JOptionPane;
import javax.swing.JPanel;

import javax.swing.JTable;
import javax.swing.*;

import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableModel;

public class AddBooking extends javax.swing.JInternalFrame {

    /**
```

```
* Creates new form AddBooking
*/
```

```
String luser;
public AddBooking( String loginuser) {
    initComponents();
    busSourceCBFillData();
    busDestinationCBFillData();
    this.luser=loginuser;
}

public void busSourceCBFillData()
{
    try{
        Class.forName("com.mysql.jdbc.Driver");
        String databaseURL = "jdbc:mysql://localhost:3308/busm?useSSL=false";
        Connection con = DriverManager.getConnection(databaseURL, "root", "");
        Statement stat = con.createStatement();
        String selectQuery="select distinct(bus_source) as bus_source from
bus_details";
        ResultSet rs=stat.executeQuery(selectQuery);

        while(rs.next())
        {
            sourceCB.addItem(rs.getString("bus_source"));
        }

    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}

public void busDestinationCBFillData()
{
    try{
        Class.forName("com.mysql.jdbc.Driver");
        String databaseURL = "jdbc:mysql://localhost:3308/busm?useSSL=false";
        Connection con = DriverManager.getConnection(databaseURL, "root", "");
        Statement stat = con.createStatement();
        String selectQuery="select distinct(bus_dest) as bus_dest  from bus_details";
        ResultSet rs=stat.executeQuery(selectQuery);
        while(rs.next())
        {
            destinationCB.addItem(rs.getString("bus_dest"));
        }
    }
}
```

```

        }

    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    sourceCB = new javax.swing.JComboBox<>();
    destinationCB = new javax.swing.JComboBox<>();
    jLabel4 = new javax.swing.JLabel();
    fromDP = new org.jdesktop.swing.JXDatePicker();
    jButton1 = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel7 = new javax.swing.JLabel();
    toDP = new org.jdesktop.swing.JXDatePicker();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    at = new javax.swing.JTextField();

    setIconifiable(true);
    setMaximizable(true);
    setResizable(true);
    setTitle("Add Booking Info");

    jLabel1.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N
    jLabel1.setText("Add Booking Info");

    jLabel2.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N
    jLabel2.setText("Source");

    jLabel3.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N

```

```

jLabel3.setText("Destination");

jLabel4.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N
jLabel4.setText(" From Date");

jButton1.setFont(new java.awt.Font("Ubuntu", 1, 15)); // NOI18N
jButton1.setText("Search");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N
jLabel5.setText("Search Results");

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane1.setViewportView(jTable1);

jLabel7.setFont(new java.awt.Font("Ubuntu", 1, 18)); // NOI18N
jLabel7.setText("To Date");

jButton2.setFont(new java.awt.Font("Ubuntu", 1, 15)); // NOI18N
jButton2.setText("New Bookings ");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jButton3.setFont(new java.awt.Font("Ubuntu", 1, 15)); // NOI18N
jButton3.setText("Available Tickets");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

```

```
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addComponent(jLabel2,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 84, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel4,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 110, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(sourceCB,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 163, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(fromDP,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 163, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel3)
                            .addComponent(jLabel7,
                                javax.swing.GroupLayout.PREFERRED_SIZE, 72, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(214, 214, 214)
                        .addComponent(jLabel11,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 240, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addComponent(toDP, javax.swing.GroupLayout.PREFERRED_SIZE, 163, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(destinationCB,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 163, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(layout.createSequentialGroup()
                    .addGap(23, 23, 23)
                    .addComponent(jLabel15, javax.swing.GroupLayout.PREFERRED_SIZE, 156, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(90, 90, 90)
```

```

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
128, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(46, 46, 46)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
200, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE,
200, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(at, javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(0, 114, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(11, 11, 11)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(jLabel2)
            .addComponent(sourceCB, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel3)
            .addComponent(destinationCB, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(jLabel4)
            .addComponent(jLabel7)
            .addComponent(fromDP, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(toDP, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
            .addComponent(jButton3, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.BASELINE)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
43, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
45, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(at, javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel15, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
    );

```

```

    pack();
} // </editor-fold>

```

```

public void infoMessage(String message, String tittle) {
    JOptionPane.showMessageDialog(null, message, tittle,
JOptionPane.INFORMATION_MESSAGE);
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    String source=(String)sourceCB.getSelectedItemAt();
    String destination=(String)destinationCB.getSelectedItemAt();
    java.util.Date fromDate=fromDP.getDate();
    java.util.Date toDate=toDP.getDate();

    SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd");
    String fromDateFormatted=sdf.format(fromDate);
    String toDateFormatted=sdf.format(toDate);

    try{
        Class.forName("com.mysql.jdbc.Driver");
        String databaseURL = "jdbc:mysql://localhost:3308/busm?useSSL=false";
        Connection con = DriverManager.getConnection(databaseURL, "root", "");
        Statement stat = con.createStatement();
        String selectQuery = "select * from bus_details where bus_source='"+source+"
and bus_dest='"+destination+" and depart_date between '"+fromDateFormatted+" and
'"+toDateFormatted+"";
        ResultSet rs=stat.executeQuery(selectQuery);

        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
        jTable1.setAutoResizeMode(JTable.AUTO_RESIZE_OFF);

    }

```

```

        catch(Exception e)
        {
            System.out.println(e);
        }

    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

        int id=1;
        String source =(String) sourceCB.getSelectedItemAt();
        String destination = (String) destinationCB.getSelectedItemAt();
        java.util.Date fromDate= fromDate.getDate();
        java.util.Date toDate=toDate.getDate();

        SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd");
        String fromDateFormatted=sdf.format(fromDate);
        String toDateFormatted=sdf.format(toDate);

        try {
            Class.forName("com.mysql.jdbc.Driver");
            String databaseURL = "jdbc:mysql://localhost:3308/busm?useSSL=false";
            Connection con = DriverManager.getConnection(databaseURL, "root", "");
            Statement stat = con.createStatement();
            String insertQuery = "insert into user_booking values('"+(id+1)+"','"+luser
+"','"+source+"','"+destination+"','"+fromDateFormatted+"','"+toDateFormatted+"')";

            stat.executeUpdate(insertQuery);

            infoMessage("information is inserted", "Welcome!");
            dispose();
            UserLogin ln=new UserLogin();
            ln.setLocationRelativeTo(null);
            ln.setVisible(true);

        } catch (Exception e) {
            System.out.println(e);
        }

    }

```



```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    int a=0;
    String source = ""+(String) sourceCB.getSelectedItemAt()+" ";
    String destination = ""+(String) destinationCB.getSelectedItemAt()+" ";
    java.util.Date fromDate= fromDateDP.getDate();
    java.util.Date toDate=toDateDP.getDate();

    SimpleDateFormat sdf=new SimpleDateFormat("yyyy-MM-dd");
    String fromDateFormatted=sdf.format(fromDate);
    String toDateFormatted=sdf.format(toDate);

    try {
        Class.forName("com.mysql.jdbc.Driver");
        String databaseURL = "jdbc:mysql://localhost:3308/busm?useSSL=false";
        Connection con = DriverManager.getConnection(databaseURL, "root", "");
        Statement stat = con.createStatement();
        String query="SELECT * FROM bus_details where bus_source="+source+" and
bus_dest="+destination;
        ResultSet result;
        result=stat.executeQuery(query);
        result.next();
        a=result.getInt("total_seat");
        System.out.println(a);
        at.setText(""+a);
        String insertQuery = "Update bus_details SET total_seat="+a+"Where
total_seat="+a;
        stat.executeUpdate(insertQuery);

        infoMessage("Tickets are Available!", "");

    } catch (Exception e) {
        System.out.println(e);
    }
}

```

```

// Variables declaration - do not modify
private javax.swing.JTextField at;
private javax.swing.JComboBox<String> destinationCB;
private org.jdesktop.swing.JXDatePicker fromDateDP;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;

```

```
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JComboBox<String> sourceCB;  
private org.jdesktop.swing.JXDatePicker toDP;  
// End of variables declaration  
}
```