Informatics Practices Project Report

Topic:

To Create a Personalised TV Channel package

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CERTIFICATE

This is to certify that Nandana SJ, a student of Class XII A, roll no……………. has successfully completed the project in Informatics Practices on the topic To Create a Channel package during the academic year 2019-2020.

_____   _____

Sign of External Examiner   Sign of Internal Examiner

_____

Signature of the Principal

Acknowledgement

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Index

Contents	Page number
Certificate	02
Acknowledgement	03
Introduction	05
System Requirement	06
Program Guide	07
Frame1	08
Frame2	09
Frame3	10
Frame4	11
Frame5	12
Frame6	15
Frame7	19
Databases Used	23
Conclusion	25
Bibliography	26

<u>Introduction</u>

The Telecom Regulatory Authority of India (TRAI)'s new regulatory regime for cable operators and DTH companies has come into play from the month of February 2019. The new rules seek to make it easier for customers to choose what they wish to watch on television, and pay only for those channels that they prefer, rather than be bound by packs decided by the cable operator or DTH company. But the procedures involved in this new program was different for different channel providers which created confusion among the users.

This JDBC program will help the customers using different channel providers to create their own channel package with only those channels they wish to watch.

System Requirement

- Hardware used

  - Minimum intel dual core or higher version
  - RAM: 2GB or more
  - HDD: 500GB

- Software used

  - NetBeans 7.4
  - MySQL
  - Microsoft.net

Program Guide

1. First frame:

    Select the channel provider you are using

2. Second frame:

    Enter your customer Id and password

3. Third frame:

    Your details will be displayed. Select Edit or Create package or Logout

4. Fourth frame:

    If Edit is selected

    > Edit the details according to your choice and click on update button.

    If Create Package is selected

    > Load all channels and the required channels and click on submit button. Click on back button.

    If Logout is selected

    > You will go back to home page.

Frame 1

```java
private void opt1ActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    this.setVisible(false);
     new Second1().setVisible(true);
}
private void opt2ActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    this.setVisible(false);
    new Second2().setVisible(true);
}
private void opt3ActionPerformed(java.awt.event.ActionEvent evt)
{
    // TODO add your handling code here:
    this.setVisible(false);
    new Second3().setVisible(true);
}
```

Frame 2

```java
import javax.swing.JOptionPane;
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String id=d1.getText();
    String pass=new String(d2.getPassword());
    if (id.equals(pass))      {
            String info[]=new String[1];
            info[0]=""+d1.getText();
            Third1.main(info);
            this.setVisible(false);
            new Third1().setVisible(true);
     }
    else     {
            JOptionPane.showMessageDialog(this,"Incoorect Id and
            password!!");
            d1.setText("");
            d2.setText("");
    }
  }
public void run() {
        new Second1().setVisible(true);
    }
```

Frame 3

```java
import javax.swing.JOptionPane;

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

    // TODO add your handling code here:

    String id=h1.getText();

    String pass=new String(h2.getPassword());

    if (id.equals(pass))      {

        String info[]=new String[1];

    info[0]=""+h1.getText();

    Third1.main(info);

    this.setVisible(false);

        new Third1().setVisible(true);

    }

    else      {

        JOptionPane.showMessageDialog(this,"Incoorect Id and
password!!");

        h1.setText("");

        h2.setText("");

    }

  }

public void run()      {

        new Second2().setVisible(true);

    }
```

Frame 4

```java
import javax.swing.JOptionPane;


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String id=t1.getText();
    String pass=new String(t2.getPassword());
    if (id.equals(pass))       {
        String info[]=new String[1];
    info[0]=""+t1.getText();
    Third1.main(info);
    this.setVisible(false);
        new Third1().setVisible(true);
    }
    else       {
        JOptionPane.showMessageDialog(this,"Incorrect Id and
password!!");
        t1.setText("");
        t2.setText("");
    }
  }
     public void run()       {
             new Second3().setVisible(true);
         }
```

Frame 5

```java
import java.sql.*;

import javax.swing.table.*;

import javax.swing.*;


public static String b;
  public Third1()        {

    initComponents();

     id1.setText(b);

  }
  public Third1(String msg)        {

    id1.setText(msg);

  }
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    this.setVisible(false);

    JOptionPane.showMessageDialog(this,"You have successfully logged
out!");

    new first().setVisible(true);

  }
```

```java
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
     DefaultTableModel tb=(DefaultTableModel)jTable1.getModel();
    int id=Integer.parseInt(id1.getText());
    String sql="select name,address,mobile_no,email_id from cust
where cust_Id="+id;
    try     {
        Class.forName("java.sql.Driver");
        Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/customers
","root","");
        Statement s=con.createStatement();
        ResultSet rs=s.executeQuery(sql);
        while(rs.next())          {
          String Name=rs.getString(1);
          String Address=rs.getString(2);
          String Mobile=rs.getString(3);
          String EmailId=rs.getString(4);
          tb.addRow(new Object[]{ Name,Address,Mobile,EmailId});
          jTable1.setModel(tb);
      }
        rs.close();
        s.close();
        con.close();
}
```

```java
        catch(Exception e)
            {
                JOptionPane.showMessageDialog(this, e.getMessage());
            }
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String info[]=new String[1];
        info[0]=""+id1.getText();
      fourth.main(info);
       new fourth().setVisible(true);
    }
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
         new fourth1().setVisible(true);
    }
    public static void main(String args[]) {
            b=args[0];
            }
    public void run() {
            new Third1().setVisible(true);
}
```

Frame 6

```java
import java.sql.*;

import javax.swing.*;


public static String f;
   public fourth() {

     initComponents();

      id1.setText(f);

   }

   public fourth(String msg) {

     id1.setText(msg);

   }

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

     // TODO add your handling code here:

     int id=Integer.parseInt(id1.getText());

     try

     {

        Class.forName("java.sql.Driver");

        Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/customers
","root","");

        Statement s=con.createStatement();

        String na=t1.getText();

        String Add=t2.getText();
```

```java
        String mob=t3.getText();

        String eId=t4.getText();

        String sql="update cust set
name='"+(na)+"',address='"+(Add)+"',mobile_no='"+(mob)+"',email_id='
"+(eId)+"'where cust_Id="+id;

        s.executeUpdate(sql);

        JOptionPane.showMessageDialog(this,"Updated Successfully");

        id1.setText("");

        t1.setText("");

        t2.setText("");

        t3.setText("");

        t4.setText("");

        s.close();

        con.close();

    }

    catch(Exception e)

        {

            JOptionPane.showMessageDialog(this, e.getMessage());

        }

  }

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

    // TODO add your handling code here:

     int id=Integer.parseInt(id1.getText());

    String sql="select name,address,mobile_no,email_id from cust
where cust_Id="+id;
```

```java
    try
    {
        Class.forName("java.sql.Driver");
        Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/customers
","root","");
        Statement s=con.createStatement();
        ResultSet rs=s.executeQuery(sql);
        while(rs.next())
        {
         String na = rs.getString(1);
         String add= rs.getString(2);
         String mob= rs.getString(3);
         String eId= rs.getString(4);
         t1.setText(na);
         t2.setText(add);
         t3.setText(mob);
         t4.setText(eId);
        }
        rs.close();
        s.close();
        con.close();
    }
```

```java
catch(Exception e)
        {
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    }


    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        this.setVisible(false);
        new Third1().setVisible(true);
    }
public static void main(String args[]) {
f=args[0];
}
public void run() {
        new fourth().setVisible(true);
    }
```

Frame 7

```java
import javax.swing.table.*;

import java.sql.*;

import javax.swing.*;

private void lb1ValueChanged(javax.swing.event.ListSelectionEvent evt)
{

    // TODO add your handling code here:

    DefaultTableModel tb = (DefaultTableModel)tb1.getModel();

    tb.setRowCount(0);

    String a = lb1.getSelectedValue().toString();

    String sql ="select *from channels where name='"+a+"'";

    try

    {

        Class.forName("java.sql.Driver");

        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/customers"
,"root","");

        Statement s= con.createStatement();

        ResultSet rs= s.executeQuery(sql);

        while(rs.next())

          {

             int slno = rs.getInt(1);

             String name = rs.getString(2);

             int cost = rs.getInt(3);

             tb.addRow(new Object[]{ slno,name,cost});

          }
```

```java
            rs.close();

            s.close();

            con.close();

        }

        catch(Exception e)

        {

            JOptionPane.showMessageDialog(this, e.getMessage());

        }

    }


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

        // TODO add your handling code here:

        DefaultListModel lb = (DefaultListModel)lb1.getModel();

        String sql ="select distinct name from channels";

        try

          {

              Class.forName("java.sql.Driver");

              Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/customers"
,"root","");

              Statement s= con.createStatement();

              ResultSet rs= s.executeQuery(sql);

              while(rs.next())

                {
```

```java
            String Name=rs.getString(1);

            lb.addElement(Name);

            lb1.setModel(lb);

        }

        rs.close();

        s.close();

        con.close();

    }

    catch(Exception e)

    {

        JOptionPane.showMessageDialog(this, e.getMessage());

    }


}


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

    // TODO add your handling code here:

    JOptionPane.showMessageDialog(this,"Your package is created!");

}


private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
```

```java
        this.setVisible(false);

         new Third1().setVisible(true);

    }

public void run() {

            new fourth1().setVisible(true);

        }
```

Databases Used

Customer details :

```
mysql> use customers;
Database changed
mysql> select*from cust;
+------+---------+------------------+-----------+------------+------------------------------+
| Slno | cust_Id | Name             | Address   | Mobile_no  | Email_Id                     |
+------+---------+------------------+-----------+------------+------------------------------+
|    2 |   12351 | Bishmeet Singh   | Mumbai    | 9868774199 | bishmeet_singh@yahoo.com     |
|    1 |   14811 | Amit Sharma      | Delhi     | 9482306311 | amitsharma123@gmail.com      |
|    3 |   25413 | Vijay Shah       | Bangalore | 8951529641 | vijayshah1996@gmail.com      |
|    6 |   45111 | Siddharth KP     | Bangalore | 9108865520 | siddharth1994@gmail.com      |
|    4 |   78514 | Surya Raj        | Hyderabad | 9482177360 | suryaraj123@gmail.com        |
|    5 |   98415 | Nandita Krishnan | Kochi     | 7042134520 | nandita1971@yahoo.in         |
+------+---------+------------------+-----------+------------+------------------------------+
6 rows in set (0.00 sec)
```

Channels:

```
mysql> select* from Channels;
+------+-------------------+------+
| Slno | Name              | Cost |
+------+-------------------+------+
|    1 | &TV               |   10 |
|    2 | Colors TV         |    7 |
|    3 | Sony              |    8 |
|    4 | Star Plus         |    4 |
|    5 | Star Sports       |    8 |
|    6 | Zee TV            |    2 |
|    7 | News Nation       |    5 |
|    8 | DD News           |    9 |
|    9 | India TV          |    3 |
|   10 | DD National       |    2 |
|   11 | Life OK           |    2 |
|   12 | Sony Ten          |    4 |
|   13 | DD Sports         |    5 |
|   14 | 9XM               |    3 |
|   15 | MTV Beats         |    1 |
|   16 | B4U Music         |    2 |
|   17 | Movies OK         |    3 |
|   18 | Star Gold         |    2 |
|   19 | Sony Max          |    3 |
|   20 | Sony Mix          |    1 |
|   21 | E24               |    6 |
|   22 | Zoom              |    4 |
|   23 | Disney Channel    |    2 |
```

```
|   17 | Movies OK          |    3 |
|   18 | Star Gold          |    2 |
|   19 | Sony Max           |    3 |
|   20 | Sony Mix           |    1 |
|   21 | E24                |    6 |
|   22 | Zoom               |    4 |
|   23 | Disney Channel     |    2 |
|   24 | Hungama TV         |    3 |
|   25 | Pogo TV            |    2 |
|   26 | Discovery Channel  |    7 |
|   27 | History TV18       |    4 |
|   28 | National Geo Wild  |    3 |
|   29 | Baby TV            |    5 |
|   30 | UTV Movies         |    3 |
|   31 | Animal Planet      |    4 |
|   32 | Disney XD          |    3 |
|   33 | News18             |    4 |
|   34 | Aastha             |    2 |
|   35 | Tulsi              |    2 |
|   36 | Satsang            |    1 |
|   37 | Cartoon Network    |    3 |
|   38 | Mastii             |    4 |
|   39 | Fox Sports         |    4 |
|   40 | Housefull Movies   |    1 |
+------+--------------------+------+
40 rows in set (0.00 sec)

mysql>
```

Conclusion

This JDBC program will provide a general platform for the users across multiple providers to implement the TRAI' regulatory regime easily without any confusion.

After successful implementation of this user-friendly program, same can be subsequently can be developed into a mobile version so that any user even without any computer knowledge can easily create his own channel package.

Bibliography

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o Newspaper
o Wikipedia.com
o Stack Overflow.com