**Academicyear-2020-21**

**CourseName:DatabaseManagementSystems**

DBMS: ASSIGNMENT 2

TITLE: ONLINE NEWSSTANDS

**ONLINE NEWSSTANDS**

**SOFTWARE USED:**

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL\*Plus.

**Java AWT:**

**Java AWT** (Abstract Window Toolkit) is  an API to develop GUI or window-based applications in java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS.

The java.awt package provides classes for AWT API such as TextField, Label, TextArea, Jbutton, CheckBox, Choice, List etc.

**Java Swing**

**Java Swing** is a part of Java Foundation Classes (JFC) that is used to create window-based applications. It is built on the top of AWT (Abstract Windowing Toolkit) API and entirely written in java.

Unlike AWT, Java Swing provides platform-independent and lightweight components.

The javax.swing package provides classes for java swing API such as JButton, JTextField, JTextArea, JRadioButton, JCheckbox, JMenu, JColorChooser etc.

**SQL:**

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

**Java-SQL Connectivity using JDBC:**

**Java Database Connectivity** (**JDBC**) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

**class** MysqlCon{

**public** **static** **void** main(String args[]){

**try**{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@DESKTOP-VUQHR63:1521:xe","system","sravya");

Statement stmt=con.createStatement();

con.close();

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

}

}

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

**IMPLEMENTATION:**

**package** info;

**import** javax.swing.\*;

**import** java.awt.event.\*;

**import** java.sql.\*;

**import** java.awt.Font;

**import** java.awt.Color;

**public** **class** Example1 **implements** ActionListener {

JFrame f= **new** JFrame("Example");

JLabel l1,l2, l3, l4, l5, l6,l;

JTextField tf1,tf2,tf3,tf4,tf5,tf6;

JButton bu;

JLabel ll1,ll2, ll3, ll4, ll5, ll6,ll;

JTextField tff1,tff2,tff3,tff4,tff5,tff6;

JLabel li1,li2, li3, li4, li5, li6,li;

JTextField tif1,tif2,tif3,tif4,tif5,tif6;

JButton bu1,bu2;

Connection con;Statement stmt;

JFrame p=**new** JFrame("user insert");

JFrame q=**new** JFrame("user modify");

JFrame r=**new** JFrame("user delete");

JFrame s=**new** JFrame("news insert");

JFrame t=**new** JFrame("news modify");

JFrame p1=**new** JFrame("news delete");

JFrame q1=**new** JFrame("insert advertisement");

JFrame r1=**new** JFrame("modify advertisement");

JFrame s1=**new** JFrame("delete advertisement");

JFrame p2=**new** JFrame("insert publisher");

JFrame q2=**new** JFrame("modify publisher");

JFrame r2=**new** JFrame("delete publisher");

JFrame p3=**new** JFrame("insert Read");

JFrame q3=**new** JFrame("modify Read");

JFrame r3=**new** JFrame("delete Read");

JFrame p4=**new** JFrame("insert publisher");

JFrame q4=**new** JFrame("modify publisher");

JFrame r4=**new** JFrame("delete publisher");

JMenuBar mb=**new** JMenuBar();

JMenu menu=**new** JMenu("USER");

JMenu menu1=**new** JMenu("NEWS");

JMenu menu2=**new** JMenu("ADVERTISEMNETS");

JMenuItem i1=**new** JMenuItem("insert user");

JMenuItem i2=**new** JMenuItem("modify user");

JMenuItem i3=**new** JMenuItem("delete user");

JMenuItem i4=**new** JMenuItem("insert news");

JMenuItem i5=**new** JMenuItem("modify news");

JMenuItem i6=**new** JMenuItem("delete news");

JMenuItem i7=**new** JMenuItem("insert advertisement");

JMenuItem i8=**new** JMenuItem("modify advertisement");

JMenuItem i9=**new** JMenuItem("delete advertisement");

JMenu menu3=**new** JMenu("PUBLISHER");

JMenuItem a=**new** JMenuItem("insert publisher");

JMenuItem b=**new** JMenuItem("modify publisher");

JMenuItem c=**new** JMenuItem("delete publisher");

JMenu menu4=**new** JMenu("READ");

JMenuItem a1=**new** JMenuItem("insert Read");

JMenuItem b1=**new** JMenuItem("modify Read");

JMenuItem c1=**new** JMenuItem("delete Read");

JMenu menu5=**new** JMenu("PUBLISHED");

JMenuItem a2=**new** JMenuItem("insert published");

JMenuItem b2=**new** JMenuItem("modify published");

JMenuItem c2=**new** JMenuItem("delete published");

Example1(){

l1=**new** JLabel(" ONLINE NEWSSTANDS ");

l1.setFont(**new** Font("Tahoma", Font.***PLAIN***, 30));

l1.setBounds(50,100,419,76);

menu.setForeground(Color.***BLACK***);

menu.add(i1);

menu.add(i2);

menu.add(i3);

mb.add(menu);

menu1.setForeground(Color.***BLACK***);

menu1.add(i4);

menu1.add(i5);

menu1.add(i6);

mb.add(menu1);

menu2.setForeground(Color.***BLACK***);

menu2.add(i7);

menu2.add(i8);

menu2.add(i9);

mb.add(menu2);

menu3.setForeground(Color.***BLACK***);

menu3.add(a);

menu3.add(b);

menu3.add(c);

mb.add(menu3);

menu4.setForeground(Color.***BLACK***);

menu4.add(a1);

menu4.add(b1);

menu4.add(c1);

mb.add(menu4);

menu5.setForeground(Color.***BLACK***);

menu5.add(a2);

menu5.add(b2);

menu5.add(c2);

mb.add(menu5);

f.getContentPane().setForeground(Color.***GRAY***);

f.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

q.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

r.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

f.getContentPane().add(l1);

f.setJMenuBar(mb);

f.setSize(700,486);

f.getContentPane().setLayout(**null**);

f.setVisible(**true**);

p.setSize(700,555);

p.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

q.setSize(700,700);

r.setSize(700,700);

s.setSize(400,400);

t.setSize(400,400);

p1.setSize(400,400);

q1.setSize(400,400);

r1.setSize(400,400);

s1.setSize(400,400);

p2.setSize(400,400);

q2.setSize(400,400);

r2.setSize(400,400);

p3.setSize(400,400);

q3.setSize(400,400);

r3.setSize(400,400);

p4.setSize(400,400);

q4.setSize(400,400);

r4.setSize(400,400);

bu=**new** JButton("INSERT");

bu.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

bu.setBackground(Color.***WHITE***);

l=**new** JLabel(" USER INSERTION");

l.setFont(**new** Font("Tahoma", Font.***PLAIN***, 18));

l.setVerticalAlignment(SwingConstants.***TOP***);

l.setBounds(100, 30, 400, 30);

l2 = **new** JLabel("Id:");

l2.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

l3 = **new** JLabel("Name:");

l3.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

l4 = **new** JLabel("Email:");

l4.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

l5 = **new** JLabel("Password:");

l5.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

l6 = **new** JLabel("Address:");

l6.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

tf1 = **new** JTextField();

tf2 = **new** JTextField();

tf3 = **new** JTextField();

tf4 = **new** JTextField();

tf5 = **new** JTextField();

l2.setBounds(80, 70, 200, 30);

l3.setBounds(80, 110, 200, 30);

l4.setBounds(80, 150, 200, 30);

l5.setBounds(80, 190, 200, 30);

l6.setBounds(80, 230, 200, 30);

tf1.setBounds(300, 70, 200, 30);

tf2.setBounds(300, 110, 200, 30);

tf3.setBounds(300, 150, 200, 30);

tf4.setBounds(300, 190, 200, 30);

tf5.setBounds(300, 230, 200, 30);

bu.setBounds(170, 350, 100, 30);

p.getContentPane().add(tf1);p.getContentPane().add(tf2);p.getContentPane().add(tf3);p.getContentPane().add(tf4);p.getContentPane().add(tf5);p.getContentPane().add(bu);p.getContentPane().add(l2);p.getContentPane().add(l3);p.getContentPane().add(l4);p.getContentPane().add(l5);p.getContentPane().add(l6);p.getContentPane().add(l);

bu.addActionListener(**this**);

bu1=**new** JButton("MODIFY");

bu1.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

bu1.setBackground(Color.***WHITE***);

ll=**new** JLabel(" USER MODIFICATION");

ll.setFont(**new** Font("Tahoma", Font.***PLAIN***, 16));

ll.setVerticalAlignment(SwingConstants.***TOP***);

ll.setBounds(100, 30, 400, 30);

ll2 = **new** JLabel("Id:");

ll2.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

ll3 = **new** JLabel("Name:");

ll3.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

ll4 = **new** JLabel("Email:");

ll4.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

ll5 = **new** JLabel("Password:");

ll5.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

ll6 = **new** JLabel("Address:");

ll6.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

tff1 = **new** JTextField();

tff2 = **new** JTextField();

tff3 = **new** JTextField();

tff4 = **new** JTextField();

tff5 = **new** JTextField();

ll2.setBounds(80, 70, 200, 30);

ll3.setBounds(80, 110, 200, 30);

ll4.setBounds(80, 150, 200, 30);

ll5.setBounds(80, 190, 200, 30);

ll6.setBounds(80, 230, 200, 30);

tff1.setBounds(300, 70, 200, 30);

tff2.setBounds(300, 110, 200, 30);

tff3.setBounds(300, 150, 200, 30);

tff4.setBounds(300, 190, 200, 30);

tff5.setBounds(300, 230, 200, 30);

bu1.setBounds(170, 350, 100, 30);

q.getContentPane().add(tff1);q.getContentPane().add(tff2);q.getContentPane().add(tff3);q.getContentPane().add(tff4);q.getContentPane().add(tff5);q.getContentPane().add(bu1);q.getContentPane().add(ll2);q.getContentPane().add(ll3);q.getContentPane().add(ll4);q.getContentPane().add(ll5);q.getContentPane().add(ll6);q.getContentPane().add(ll);

bu1.addActionListener(**this**);

bu2=**new** JButton("DELETE");

bu2.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

bu2.setBackground(Color.***WHITE***);

li=**new** JLabel(" USER DELETION");

li.setFont(**new** Font("Tahoma", Font.***PLAIN***, 18));

li.setVerticalAlignment(SwingConstants.***TOP***);

li.setBounds(100, 30, 400, 30);

li2 = **new** JLabel("Id:");

li2.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

li3 = **new** JLabel("Name:");

li3.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

li4 = **new** JLabel("Email:");

li4.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

li5 = **new** JLabel("Password:");

li5.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

li6 = **new** JLabel("Address:");

li6.setFont(**new** Font("Tahoma", Font.***PLAIN***, 14));

tif1 = **new** JTextField();

tif2 = **new** JTextField();

tif3 = **new** JTextField();

tif4 = **new** JTextField();

tif5 = **new** JTextField();

li2.setBounds(80, 70, 200, 30);

li3.setBounds(80, 110, 200, 30);

li4.setBounds(80, 150, 200, 30);

li5.setBounds(80, 190, 200, 30);

li6.setBounds(80, 230, 200, 30);

tif1.setBounds(300, 70, 200, 30);

tif2.setBounds(300, 110, 200, 30);

tif3.setBounds(300, 150, 200, 30);

tif4.setBounds(300, 190, 200, 30);

tif5.setBounds(300, 230, 200, 30);

bu2.setBounds(170, 350, 100, 30);

r.getContentPane().add(tif1);r.getContentPane().add(tif2);r.getContentPane().add(tif3);r.getContentPane().add(tif4);r.getContentPane().add(tif5);r.getContentPane().add(bu2);r.getContentPane().add(li2);r.getContentPane().add(li3);r.getContentPane().add(li4);r.getContentPane().add(li5);r.getContentPane().add(li6);r.getContentPane().add(li);

bu2.addActionListener(**this**);

i1.addActionListener(**this**);

i2.addActionListener(**this**);

i3.addActionListener(**this**);

i4.addActionListener(**this**);

i5.addActionListener(**this**);

i6.addActionListener(**this**);

i7.addActionListener(**this**);

i8.addActionListener(**this**);

i9.addActionListener(**this**);

a.addActionListener(**this**);

b.addActionListener(**this**);

c.addActionListener(**this**);

a1.addActionListener(**this**);

b1.addActionListener(**this**);

c1.addActionListener(**this**);

a2.addActionListener(**this**);

b2.addActionListener(**this**);

c2.addActionListener(**this**);

}

**public** **void** actionPerformed(ActionEvent e) {

**if**(e.getSource()==i1) {

p.setVisible(**true**);

bu.addActionListener(**new** ActionListener() {

**public** **void** actionPerformed(ActionEvent arg0) {

{

**int** x = 0;

String s1 = tf1.getText();

String s2 = tf2.getText();

String s3 = tf3.getText();

String s4 = tf4.getText();

String s5 = tf5.getText();

**if** (**true**)

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@DESKTOP-VUQHR63:1521:xe","system","sravya");

PreparedStatement ps = con.prepareStatement("insert into user\_ values(?,?,?,?,?)");

ps.setString(1, s1);

ps.setString(2, s2);

ps.setString(3, s3);

ps.setString(4, s4);

ps.setString(5, s5);

ResultSet rs = ps.executeQuery();

x++;

**if** (x > 0)

{

JOptionPane.*showMessageDialog*(bu, "Data Inserted Successfully");

}

}

**catch** (Exception ex)

{

System.***out***.println(ex);

}

}

**else**

{

JOptionPane.*showMessageDialog*(bu, "not possible");

}

}

}

});

}

**if**(e.getSource()==i2){

q.setVisible(**true**);

bu1.addActionListener(**new** ActionListener() {

**public** **void** actionPerformed(ActionEvent arg0) {

{

**int** x = 0;

String s1 = tff1.getText();

String s2 = tff2.getText();

String s3 = tff3.getText();

String s4 = tff4.getText();

String s5 = tff5.getText();

**if** (**true**)

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@DESKTOP-VUQHR63:1521:xe","system","sravya");

String query="update user\_ set user\_name=? ,user\_email=? ,user\_password=? ,user\_add=?"+"where user\_id=?";

PreparedStatement ps = con.prepareStatement(query);

ps.setString(1, s2);

ps.setString(2, s3);

ps.setString(3, s4);

ps.setString(4, s5);

ps.setString(5, s1);

ResultSet rs = ps.executeQuery();

x++;

**if** (x > 0)

{

JOptionPane.*showMessageDialog*(bu1, "Data Updated Successfully");

}

}

**catch** (Exception ex)

{

System.***out***.println(ex);

}

}

**else**

{

JOptionPane.*showMessageDialog*(bu1, "not possible");

}

}

}

});

}

**if**(e.getSource()==i3) {

r.setVisible(**true**);

bu2.addActionListener(**new** ActionListener() {

**public** **void** actionPerformed(ActionEvent arg0) {

{

String s1 = tif1.getText();

**int** x = 0;

**if** (**true**)

{

**try**

{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@DESKTOP-VUQHR63:1521:xe","system","sravya");

String query="delete from user\_ where user\_id=?";

PreparedStatement ps = con.prepareStatement(query);

ps.setString(1, s1);

ResultSet rs = ps.executeQuery();

x++;

**if** (x > 0)

{

JOptionPane.*showMessageDialog*(bu2, "Data Deleted Successfully");

}

//conn.close();

}

**catch** (Exception ex)

{

System.***out***.println(ex);

}

}

**else**

{

JOptionPane.*showMessageDialog*(bu2, "not possible");

}

}

}

});

}

**if**(e.getSource()==i4)

s.setVisible(**true**);

**if**(e.getSource()==i5)

t.setVisible(**true**);

**if**(e.getSource()==i6)

p1.setVisible(**true**);

**if**(e.getSource()==i7)

q1.setVisible(**true**);

**if**(e.getSource()==i8)

r1.setVisible(**true**);

**if**(e.getSource()==i9)

s1.setVisible(**true**);

**if**(e.getSource()==a)

p2.setVisible(**true**);

**if**(e.getSource()==b)

q2.setVisible(**true**);

**if**(e.getSource()==c)

r2.setVisible(**true**);

**if**(e.getSource()==a1)

p3.setVisible(**true**);

**if**(e.getSource()==b1)

q3.setVisible(**true**);

**if**(e.getSource()==c1)

r3.setVisible(**true**);

**if**(e.getSource()==a2)

p4.setVisible(**true**);

**if**(e.getSource()==b2)

q4.setVisible(**true**);

**if**(e.getSource()==c2)

r4.setVisible(**true**);

}

**public** **static** **void** main(String[] args) {

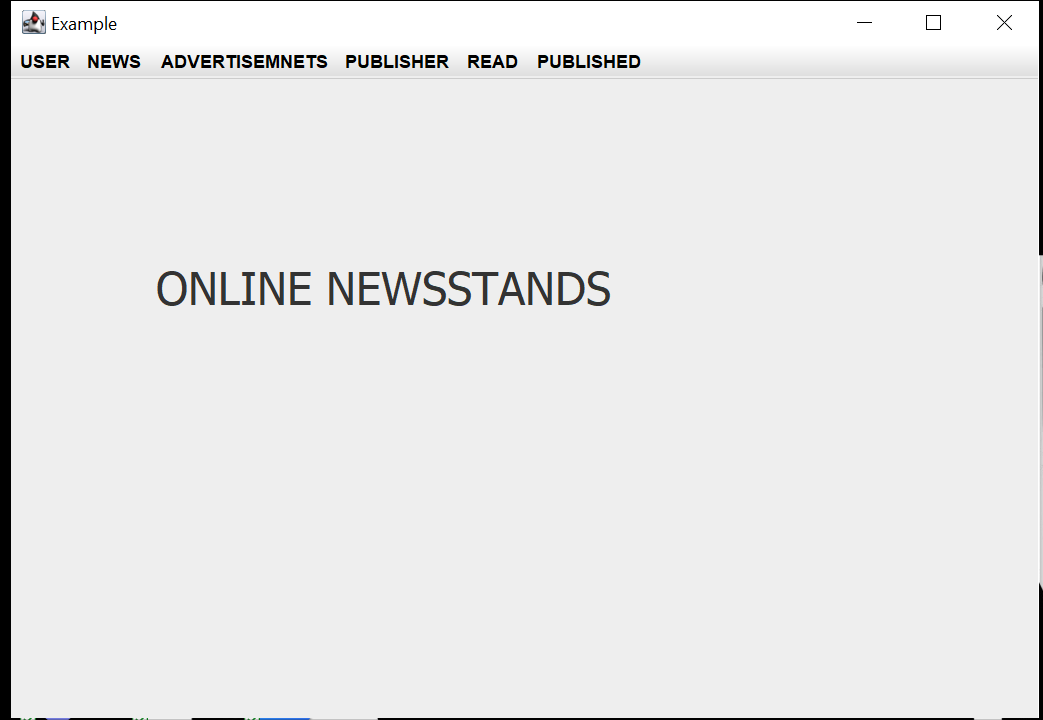
**new** Example1();

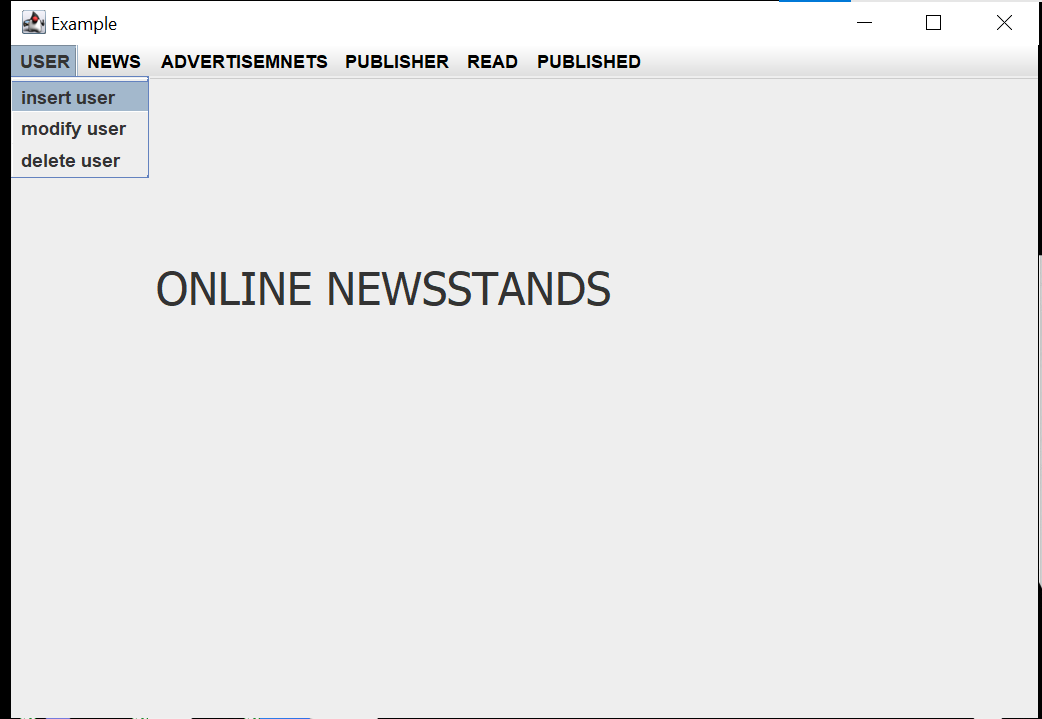
}

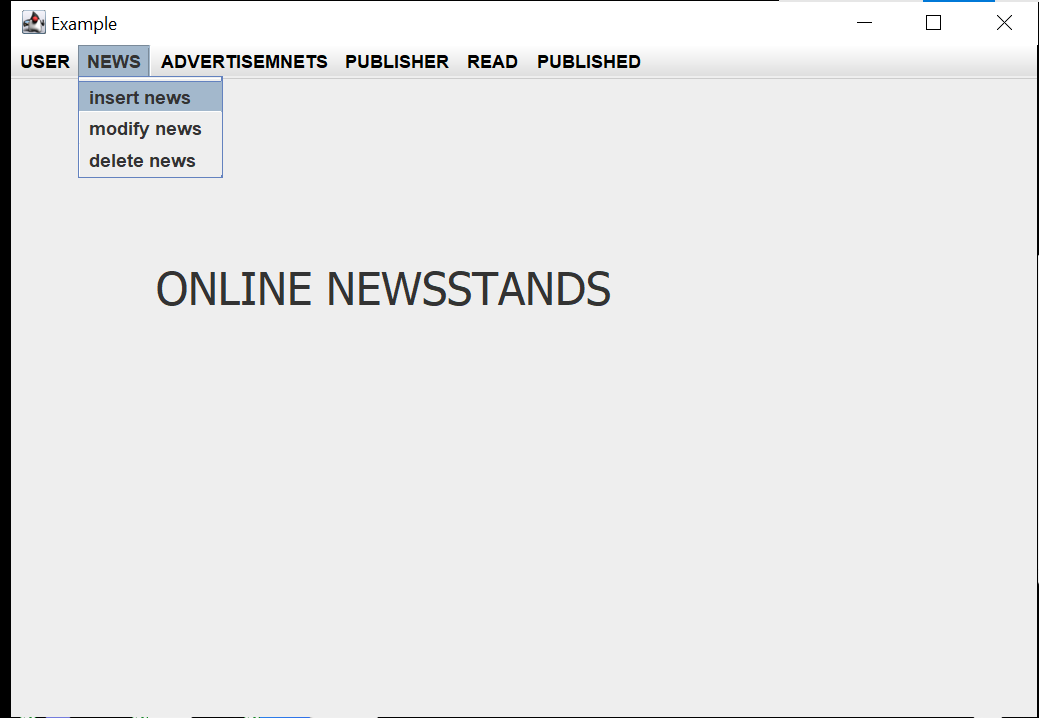
}

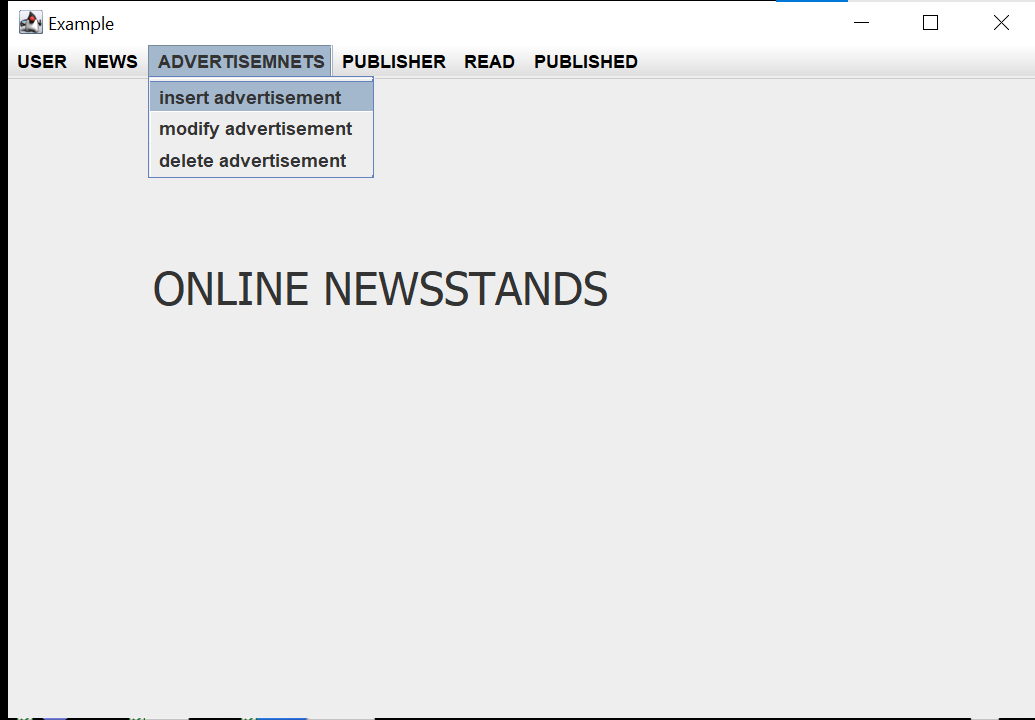
**OUTPUT SCREENSHOTS OF GUI:**

**MAIN GUI:**









USER

