IP PROJECT
WeAnswer

Made By:
Name:
School: DPS, Sector 45, Gurugram
Class: XII I
Board Roll Number:

INDEX

ACKNOWLEDGEMENTS

I would like to express my sincere gratitude to my Informatics Practices teacher Mrs.Ritu Arora for her vital support, guidance and encouragement – without which this project would not have come forth.

CERTIFICATE

This is to certify that _____ of class XII has satisfactorily submitted the project "WeAnswer".

The project is the result of his efforts and endeavours and has been accepted as the final project for the subject Informatics Practices of class XII. He has prepared the project under my guidance.

Teacher's signature

About The Project

WeAnswer is a forum built for asking and answering questions. If there is any question that the users would like to ask, then they can search for similar questions on our database, or ask a brand new question. Other users can view the uploaded questions and provide meaningful answers, leading to a productive platform for users to learn from.

The first two frames involve logging in, or signing up as a new user, which grants access to the homepage. On the homepage, one can access the search feature, the add question feature, and click on a link to provide feedback. The search frame uses a query to find similar questions that have already been asked before, and display the results. A matching question can be selected and the corresponding answers can be viewed.

New questions and answers can be added as well. (There is a limit of maximum 5 answers to one question keeping in mind the moderation required to maintain the standard of answers on the forum.)

NOTE: Please download the fonts, "Prime" and "Blogger Sans" for the best experience. They have been included in the project folder.

FRONT END (NETBEANS)

LOGIN AND SIGNUP

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
```

Login:

```
private void jButton2ActionPerformed(){
String username= jTextField1.getText();
String password= new String(jPasswordField1.getPassword());
try {
    Class.forName("java.sql.DriverManager");
    Connection con=
    (Connection)DriverManager.getConnection("jdbc:mysql://localhost:
    3306/weanswer", "root", "dps");
    Statement stmt= (Statement) con.createStatement();
    String query= "Select password from login where
    username='"+username+"';";
     ResultSet Rs= stmt.executeQuery(query);
     System.out.println(Rs);
     String passwordnew;
         Rs.next();
         passwordnew =   Rs.getString("password");
         if (password.equals(passwordnew))
         {
             Homepage a= new Homepage();
             this.setVisible(false);
             a.setVisible(true);
         }
         else{
```

```
            JOptionPane.showMessageDialog(this, "Invalid
    username/password");
            }
            }
        catch(Exception e)
        {JOptionPane.showMessageDialog(this, e.getMessage());}
}
```

Signup Button (Connecting to Signup):

```
private void jButton1ActionPerformed(){
    Signup a= new Signup();
    this.setVisible(false);
    a.setVisible(true);
}
```

SIGNUP

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
```
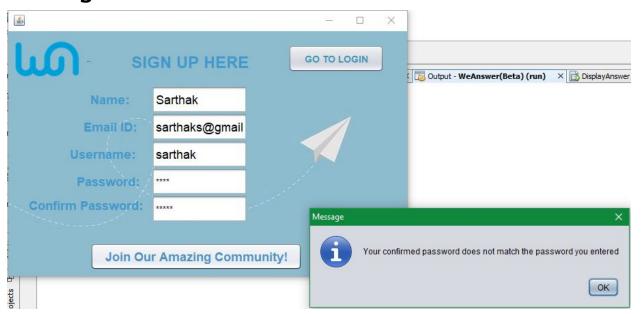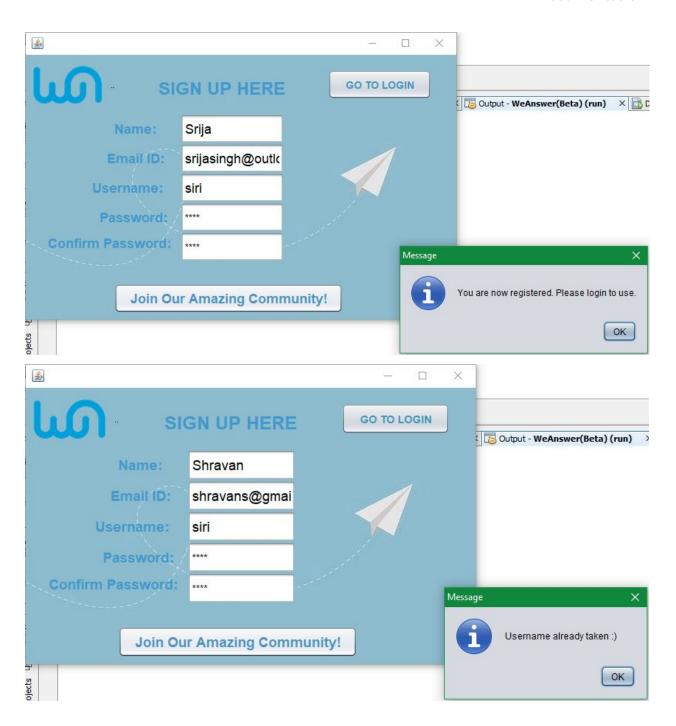
Go To Login:

```
private void jButton1ActionPerformed(){
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Join Our Amazing Community:

```
private void jButton2ActionPerformed() {
String name=jTextField1.getText();
String username=jTextField2.getText();
String password=new String(jPasswordField1.getPassword());
String confirm=new String(jPasswordField2.getPassword());
String emailid=jTextField3.getText();
if(password.equals(confirm))
 {
   try{
       Class.forName("java.sql.DriverManager");
       Connection con=(Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/weanswer","r
oot","dps");
       Statement stmt=(Statement)con.createStatement();
String query="INSERT INTO LOGIN
VALUES('"+name+"','"+username+"','"+emailid+"','"+password+"');";
 stmt.executeUpdate(query);
```

```
    JOptionPane.showMessageDialog(null,"You are now registered. Please
Login to use.");
                }
   catch(Exception e)
   { if(e.getMessage().equals("Duplicate entry '"+username+"' for key
'PRIMARY'"))                {
JOptionPane.showMessageDialog(null, "Username already taken :)");
}
            }
         }
         else
         {
              JOptionPane.showMessageDialog(null,"Your confirmed
password does not match the password you entered");
         }
}
```

Message Boxes:

HOMEPAGE

Source Code:

Log Out:

```
private void jButton5ActionPerformed() {
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Search for Question:

```
private void jButton2ActionPerformed() {
Search a= new Search();
this.setVisible(false);
a.setVisible(true);
}
```
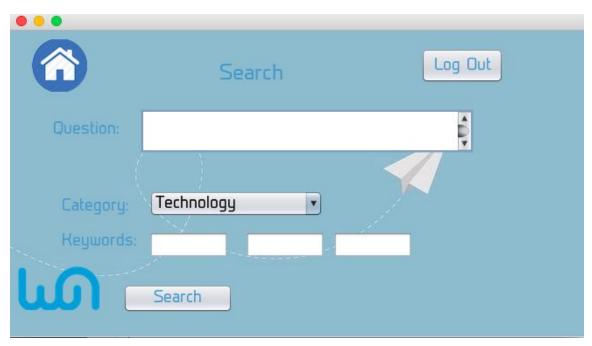
Add Question:

```
private void jButton1ActionPerformed() {
AddQuestion a= new AddQuestion();
this.setVisible(false);
a.setVisible(true);
}
```
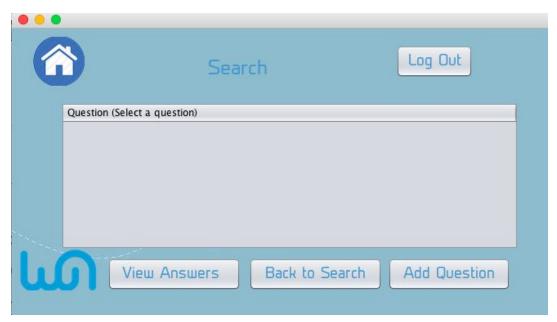
Feedback:

```
private void jButton4ActionPerformed(){
Feedback a= new Feedback();
this.setVisible(false);
a.setVisible(true);
}
```
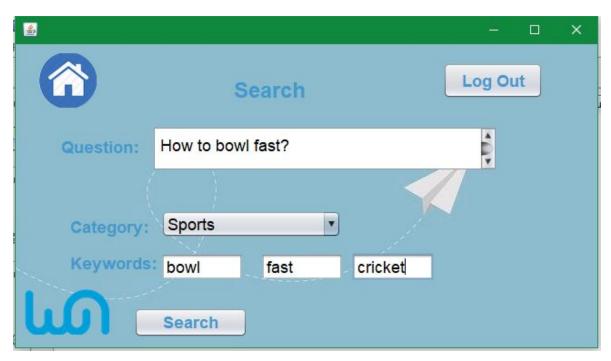
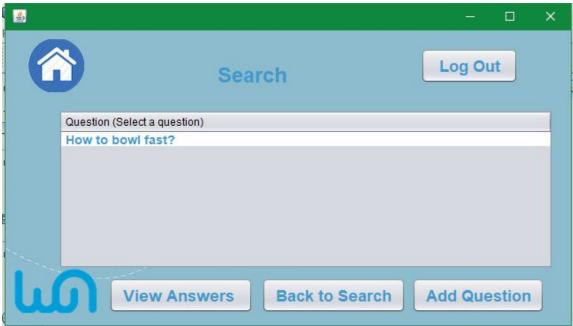# SEARCH

Layer 1

Layer 2

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
```

Default Settings:

```
public Search() {
        initComponents();
        jLayeredPane1.setVisible(true);
        jLayeredPane2.setVisible(false);
    }
```

Panel 1:

Search:

```
private void jButton1ActionPerformed(){
DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
String question= jTextArea1.getText();
String word1= jTextField1.getText();
String word2= jTextField2.getText();
String word3= jTextField3.getText();
String cat=""+jComboBox1.getSelectedItem();
String tableques, query, query1, query2, query3;
jLayeredPane1.setVisible(false);
jLayeredPane2.setVisible(true);
try
    {
      Class.forName("java.sql.DriverManager");
```

```
      Connection con =
(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/
weanswer","root", "Mysql19");
      Statement stmt = (Statement)con.createStatement();
      query= "Select questions from questions where
((questions='"+question+"') or
(keyword_1 Like '%"+word1+"%' and keyword_2 Like '%"+word2+"%' and
keyword_3 Like '%"+word3+"%') or
(keyword_1 Like '%"+word1+"%' or keyword_1 Like '%"+word2+"%' or
keyword_1 Like '%"+word3+"%' or keyword_2 Like '%"+word1+"%' or
keyword_2 Like '%"+word2+"%' or keyword_2 Like '%"+word3+"%' or
keyword_3 Like '%"+word1+"%' or keyword_3 Like '%"+word2+"%' or
keyword_3 Like '%"+word3+"%'))
and category='"+cat+"';";

            ResultSet rs= stmt.executeQuery(query);

            while(rs.next())
            {tableques= rs.getString("questions");
            model.addRow(new Object[] {tableques});}


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

Panel 2:

View Answers:

```
private void jButton6ActionPerformed(){
int column = 0;
int row = jTable1.getSelectedRow();
String quesforans = jTable1.getModel().getValueAt(row,
column).toString();
this.setVisible(false);
DisplayAnswer a= new DisplayAnswer(quesforans);
this.setVisible(false);
a.setVisible(true);
}
```

Back to Search:

```
private void jButton5ActionPerformed(){
jLayeredPane1.setVisible(true);
jLayeredPane2.setVisible(false);
}
```

Add Question:

```
private void jButton4ActionPerformed(){
AddQuestion a= new AddQuestion();
this.setVisible(false);
a.setVisible(true);
}
```
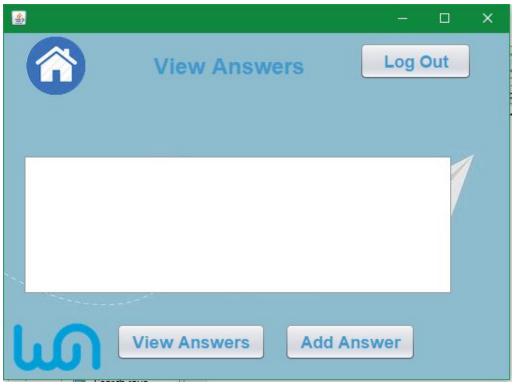
Log Out:

```
private void jButton3ActionPerformed(){
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```
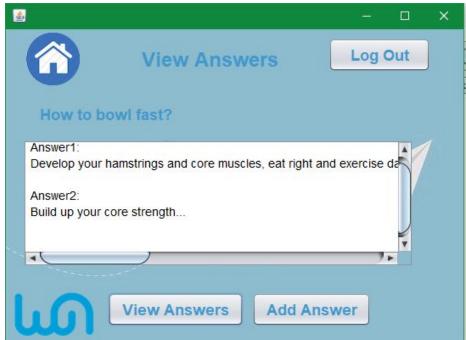
Home Button:

```
private void jButton2ActionPerformed(){
Homepage a= new Homepage();
this.setVisible(false);
a.setVisible(true);
}
```

DISPLAY ANSWERS

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
```

Runtime Settings:

```
public DisplayAnswer(String Quesforans) {
        initComponents();
        questoanswer= Quesforans;
        jLabel2.setText(questoanswer);
    }
```

View Answers:

```
private void jButton4ActionPerformed() {
int counter=0;
jTextArea.setEditable(false);
String quesforans=jLabel2.getText();
        try
        {
            Class.forName("java.sql.DriverManager");
            Connection con =
(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/
weanswer","root", "Mysql19");
            Statement stmt = (Statement)con.createStatement();
            String query= "Select * from answers where
questions='"+quesforans+"';";
            ResultSet answers= stmt.executeQuery(query);
            while(answers.next())
            {
             String answer1=answers.getString("answer1");
```

```
            String answer2=answers.getString("answer2");
            String answer3=answers.getString("answer3");
            String answer4=answers.getString("answer4");
            String answer5=answers.getString("answer5");
            else{jTextArea1.append("Answer1:" + "\n" + answer1 +
"\n" + "\n");
            counter+=1;}
            if (answer2.equals("NULL"))
            {;}
            else{jTextArea1.append("Answer2:" + "\n" + answer2 +
"\n" + "\n");
            counter+=1;}
            if (answer3.equals("NULL"))
            {;}
            else{jTextArea1.append("Answer3:" + "\n" + answer3 +
"\n" + "\n");
            counter+=1;}
            if (answer4.equals("NULL"))
            {;}
            else{jTextArea1.append("Answer4:" + "\n" + answer4 +
"\n" + "\n");
            counter+=1;}
            if (answer5.equals("NULL"))
            {;}
            else{jTextArea1.append("Answer5:" + "\n" + answer5 +
"\n" + "\n");
            counter+=1;}


        }
        }
        catch(Exception e)
        {JOptionPane.showMessageDialog(this, e.getMessage());}
if(counter==5)
    {
        jButton1.setEnabled(false);
        JOptionPane.showMessageDialog(this,"This answer has reached
maximum amount of answers. Please wait for our administrators to
moderate content. You may ask an alternative question if required.
Apologies for the inconvenience.");
```

```
        }
        else
            jButton1.setEnabled(true);
}
```

Add Answer:

```
private void jButton1ActionPerformed() {
String quesforanswer= jLabel2.getText();
AddAnswer a= new AddAnswer(quesforanswer);
this.setVisible(false);
a.setVisible(true);
}
```
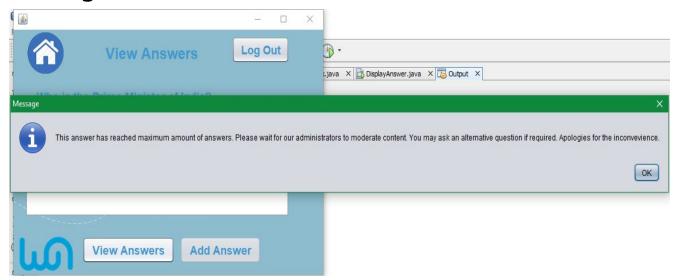
Log Out:

```
private void jButton3ActionPerformed(){
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Home Button:

```
private void jButton2ActionPerformed(){
Homepage a= new Homepage();
this.setVisible(false);
a.setVisible(true);
}
```
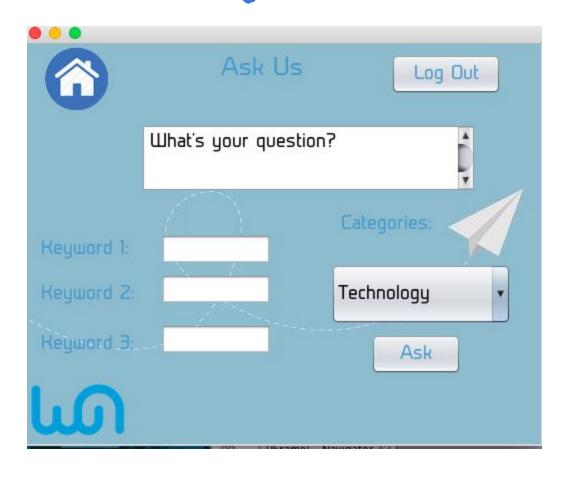
Message Box:

ADD QUESTION

Source Code:

Import Statements:

```java
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
```

Ask:

```java
private void jButton1ActionPerformed() {
String kw1=t2.getText();
String kw2=t3.getText();
String kw3=t1.getText();
String cat=""+box.getSelectedItem();
String ques=ta.getText();

if(kw1.equals(" ") && " ".equals(kw2) && " ".equals(kw3) )
  {JOptionPane.showMessageDialog(null, "please enter at least one
keyword");}
if("".equals(cat))
  {JOptionPane.showMessageDialog(null,"please select a category");}
try

  {
    Class.forName("java.sql.DriverManager");
    Connection con =
(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/
weanswer","root", "Mysql19");
    Statement stmt = (Statement)con.createStatement();
    Connection con1 =
(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/
weanswer","root", "Mysql19");
    Statement stmt1 = (Statement)con1.createStatement();
```

```
        String query="INSERT INTO questions
VALUES('"+ques+"','"+kw1+"','"+kw2+"','"+kw3+"','"+cat+"');";
            String query1="INSERT INTO answers VALUES('"+ques+"',
'NULL', 'NULL', 'NULL', 'NULL', 'NULL');";
            stmt.executeUpdate(query);
            stmt1.executeUpdate(query1);
            JOptionPane.showMessageDialog(null,"Your question has
been added. Please wait for answer." );
        }
        catch(Exception e)
        {JOptionPane.showMessageDialog (this, e.getMessage());}
```
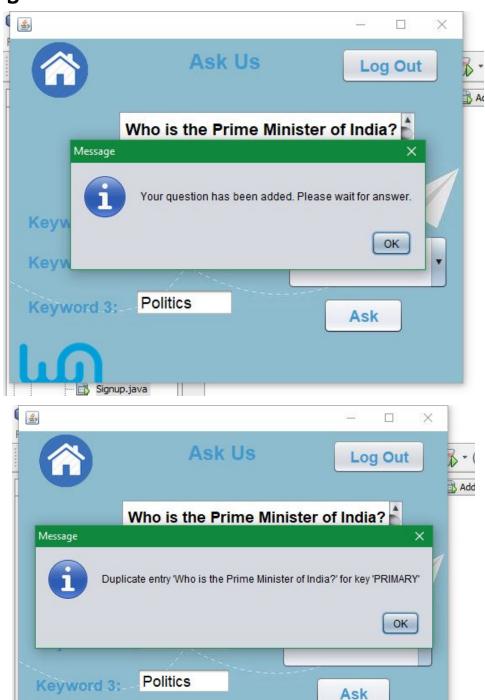
Home Button:

```
private void jButton2ActionPerformed(){
Homepage a= new Homepage();
this.setVisible(false);
a.setVisible(true);
}
```

Log Out:
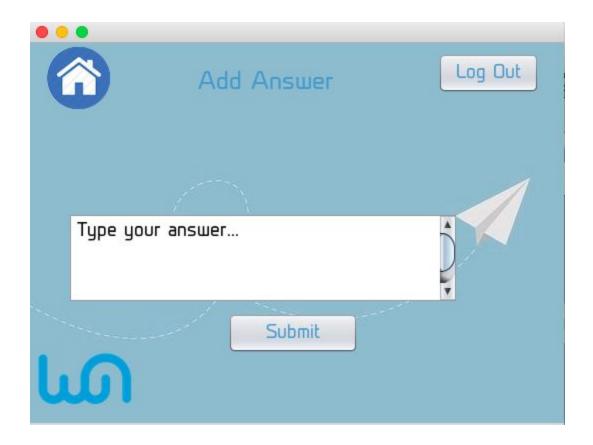
```
private void jButton3ActionPerformed(){
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Message Boxes:

ADD ANSWER

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
```

Runtime Settings:

```
   public AddAnswer(String Quesforanswer) {
        initComponents();
        ques= Quesforanswer;
        jLabel1.setText(ques);
    }
```

Submit:

```
private void jButton1ActionPerformed() {
String answer=box.getText();
int i=0; int j=10;
try{
     Class.forName("java.sql.DriverManager");
     Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3
306/weanswer","root", "Mysql19");
     Statement stmt = (Statement)con.createStatement();

     for(i=1; i<6; i++)
          {
          String query= "Select answer"+i+" from answers  where
          questions= '"+ques+"';";
           ResultSet rs= stmt.executeQuery(query);
           while(rs.next())
```
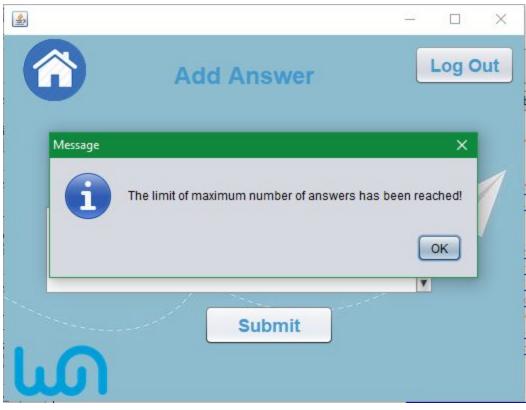
```
            {String l= rs.getString("answer"+i+"");
            if(l.equals("NULL"))
            {
                try{
                Class.forName("java.sql.DriverManager");
             Connection
con1=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:
3306/weanswer","root", "Mysql19");
            Statement stmt1 = (Statement)con.createStatement();
            String ans= "Update answers set answer"+i+"= '"+answer+"'
where questions='"+ques+"';";
            j=1;
            i=10;
            stmt1.executeUpdate(ans);}
            catch(Exception e)
            {JOptionPane.showMessageDialog(this, e.getMessage());}
            }}}
            if(j==10)
            {JOptionPane.showMessageDialog(this, "The limit of
maximum number of answers has been reached!");}
            else{JOptionPane.showMessageDialog(this, "Your answer has
been added. Thank you!");}}
        catch(Exception e)
        {JOptionPane.showMessageDialog(this, e.getMessage());}
    }
}
```

Log Out:

```
private void jButton3ActionPerformed() {
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Home Button:
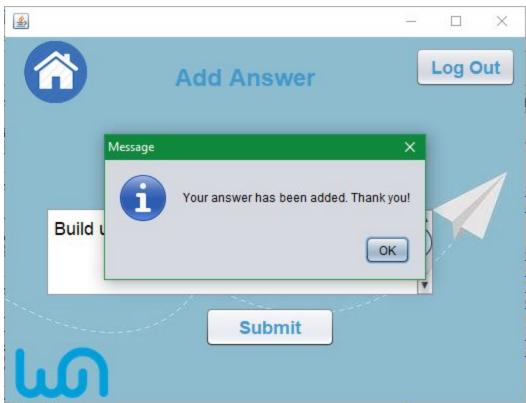
```
private void jButton2ActionPerformed() {
Homepage a= new Homepage();
this.setVisible(false);
a.setVisible(true);
```
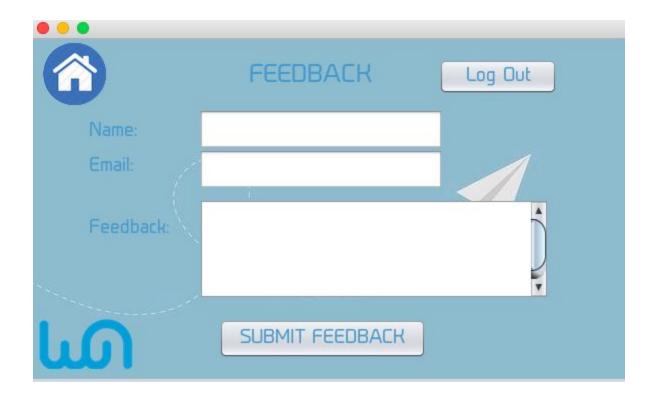
Message Boxes:

FEEDBACK

Source Code:

Import Statements:

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
```

Log Out:

```
private void jButton3ActionPerformed(){
LoginandSignup a= new LoginandSignup();
this.setVisible(false);
a.setVisible(true);
}
```

Submit Feedback:

```
private void jButton1ActionPerformed() {
String name=jTextField1.getText();
String emailid=jTextField2.getText();
String feedback=jTextArea1.getText();
try{
        Class.forName("java.sql.DriverManager");
        Connection con=(Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/weanswer","r
oot","dps");
        Statement stmt=(Statement)con.createStatement();
        String query="INSERT INTO FEEDBACK
VALUES('"+name+"','"+emailid+"','"+feedback+"');";
        stmt.executeUpdate(query);
        JOptionPane.showMessageDialog(null,"Your feedback has been
submitted. Thank you for using WeAnswer!");
        }
catch(Exception e)
   {
        JOptionPane.showMessageDialog(null, e.getMessage());
```
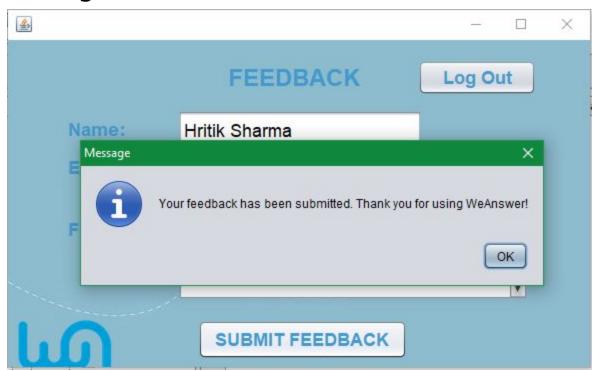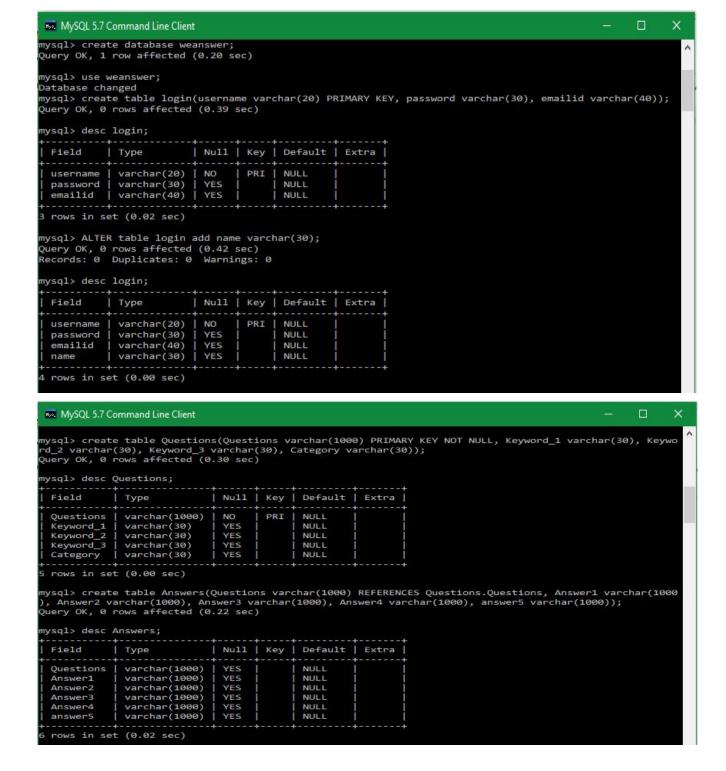
```
        }
}
```

Home Button:

```
private void jButton2ActionPerformed() {
Homepage a= new Homepage();
this.setVisible(false);
a.setVisible(true);
```
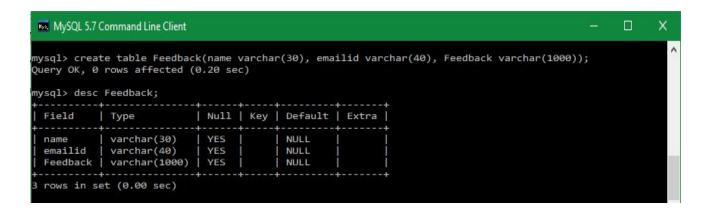
Message Box:

MYSQL

Tables:

Login Table


```
mysql> desc login;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| username | varchar(20) | NO   | PRI | NULL    |       |
| password | varchar(30) | YES  |     | NULL    |       |
| emailid  | varchar(40) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.02 sec)

mysql> ALTER table login add name varchar(30);
Query OK, 0 rows affected (0.42 sec)
Records: 0  Duplicates: 0  Warnings: 0




mysql> desc login;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| username | varchar(20) | NO   | PRI | NULL    |       |
| password | varchar(30) | YES  |     | NULL    |       |
| emailid  | varchar(40) | YES  |     | NULL    |       |
| name     | varchar(30) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

Questions Table

```
mysql> select * from questions;
+----------------------------------+-----------+----------------+-----------+-----------+
| Questions                        | Keyword_1 | Keyword_2      | Keyword_3 | Category  |
+----------------------------------+-----------+----------------+-----------+-----------+
| How to bowl fast?                | cricket   | bowling        | fast      | Sports    |
| How to top in JEE Advanced?      | studies   | JEE            | Advanced  | Academics |
| Who is the Prime Minister of India? | Politics | Prime Minister | India     | Politics  |
+----------------------------------+-----------+----------------+-----------+-----------+
3 rows in set (0.00 sec)
```

```
mysql> create table Questions(Questions varchar(1000) PRIMARY KEY NOT
NULL, Keyword_1 varchar(30), Keyword_2 varchar(30), Keyword_3
varchar(30), Category varchar(30));
Query OK, 0 rows affected (0.30 sec)

mysql> desc Questions;
+-----------+---------------+------+-----+---------+-------+
| Field     | Type          | Null | Key | Default | Extra |
+-----------+---------------+------+-----+---------+-------+
| Questions | varchar(1000) | NO   | PRI | NULL    |       |
| Keyword_1 | varchar(30)   | YES  |     | NULL    |       |
| Keyword_2 | varchar(30)   | YES  |     | NULL    |       |
| Keyword_3 | varchar(30)   | YES  |     | NULL    |       |
| Category  | varchar(30)   | YES  |     | NULL    |       |
+-----------+---------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Answers Table

```
mysql> select * from answers;
+--------------------------------+--------------------------------------------------------------------------------------------------------------------------------+
| Questions                      | Answer1
                                                                          | Answer2                    | Answer3                                     |
Answer4 | answer5                |
+--------------------------------+--------------------------------------------------------------------------------------------------------------------------------+
| Who is the Prime Minister of India? | n
                                                                          | Narendra Modi              | You better search that on google you moron! |
Modiji | The Prime Minister of India is Mr.Narendra Damodardas Modi. |
| How to top in JEE Advanced?    | Study as hard as you can and hope for the best!
                                                                          | NULL                       | NULL                                        |
NULL   | NULL                   |
| How to bowl fast?              | Develop your hamstrings and core muscles, eat right and exercise daily, your bowling action also plays an important role in how
quick you  are able to bowl and suggest you to consult a cricket coach about the same. | Build up your core strength... | NULL                   |
NULL   | NULL                   |
+--------------------------------+--------------------------------------------------------------------------------------------------------------------------------+
3 rows in set (0.00 sec)
```

```
mysql> create table Answers(Questions varchar(1000) REFERENCES
Questions.Questions, Answer1 varchar(1000), Answer2 varchar(1000),
Answer3 varchar(1000), Answer4 varchar(1000), answer5 varchar(1000));
Query OK, 0 rows affected (0.22 sec)


mysql> desc Answers;
+-----------+---------------+------+-----+---------+-------+
| Field     | Type          | Null | Key | Default | Extra |
+-----------+---------------+------+-----+---------+-------+
| Questions | varchar(1000) | YES  |     | NULL    |       |
| Answer1   | varchar(1000) | YES  |     | NULL    |       |
| Answer2   | varchar(1000) | YES  |     | NULL    |       |
| Answer3   | varchar(1000) | YES  |     | NULL    |       |
| Answer4   | varchar(1000) | YES  |     | NULL    |       |
| answer5   | varchar(1000) | YES  |     | NULL    |       |
+-----------+---------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```

Feedback Table

```
mysql> select * from feedback;
+--------+-----------------+---------------------------------------------------+
| name   | emailid         | Feedback                                          |
+--------+-----------------+---------------------------------------------------+
| Mavis  | mavis@gmail.com | Weanswer is an amazing forum, keep up the good work! |
+--------+-----------------+---------------------------------------------------+
1 row in set (0.00 sec)
```

```
mysql> create table Feedback(name varchar(30), emailid varchar(40),
Feedback varchar(1000));
Query OK, 0 rows affected (0.20 sec)

mysql> desc Feedback;
+----------+---------------+------+-----+---------+-------+
| Field    | Type          | Null | Key | Default | Extra |
+----------+---------------+------+-----+---------+-------+
| name     | varchar(30)   | YES  |     | NULL    |       |
| emailid  | varchar(40)   | YES  |     | NULL    |       |
| Feedback | varchar(1000) | YES  |     | NULL    |       |
+----------+---------------+------+-----+---------+-------+
3 rows in set (0.00 sec)
```

BIBLIOGRAPHY

Resources Used:

- MySQL
- Netbeans IDE
- Informatics Practices, Class XII Central Board of Secondary Education
- Informatics Practices booklet, Class XII, DPS Sector 45, Gurugram
- www.stackexchange.com