**Answers.java**

**Interface**

* **String getUserName()**
* **String getAnswer()**
* **String getResult()**

**AnswerServant.java**

**Methods:**

* **public AnswerServant(String un, String a, boolean r)**
* **String getUserName()**
* **String getAnswer()**
* **boolean getResult()**

**Instance fields:**

* **String username**
* **String answer**
* **Booelan result**

**AnswerList.java**

**Interface**

* **Answer newAnswer(String u, String a, boolean r)**
* **void clearAnswers()**
* **Vector allAnswers()**

**AnswerListServant.java**

**Methods:**

* **public AnswerListServant()**
* **Answer newAnswer(String u, String a, boolean r)**
* **void clearAnswers()**
* **Vector allAnswers()**

**Instince fields:**

* **Vector<AnswerServant> answerList**

**User.java**

**Interface**

* **String getUserName()**
* **String getPass()**
* **String getType()**
* **boolean getOnline()**
* **void showQuestion(Question q, String ans)**
* **void showAnswers(User u, String a)**

**UserServant.java**

**Methods:**

* **public UserServant(String un,String ps,String t, boolean o)**
* **String getUserName()**
* **String getPass()**
* **String getType()**
* **boolean getOnline()**
* **void showQuestion(Question q, String ans)**
* **void showAnswers(User u, String a)**

**Instance Fields**

* **String userName;**
* **String pass;**
* **String type;**
* **boolean online;**

**UserList.java**

**Interface**

* **User newUser(String u, String p, String t, boolean o)**
* **User updateUser(int i, String u, String p, String t, boolean o)**
* **Vector allUsers()**
* **int getVersion()**

**UserListServant.java**

**Methods:**

* **UserListServant()**
* **User newUser(String u, String p, String t, boolean o)**
* **User updateUser(int i, String u, String p, String t, boolean o)**
* **Vector allUsers()**
* **int getVersion()**

**Instance Fields:**

* **Vector<UserServant> theList;**
* **int version;**

**Question.java**

* **String getQuestion()**
* **String[] getAnswers()**
* **String getType()**
* **String getCorrect()**

**QuestionServant.java**

**Methods:**

* **QuestionServant(String t, String q, String a1, String a2, String a3, String a4, String c)**
* **String getQuestion()**
* **String[] getAnswers()**
* **String getType()**
* **String getCorrect()**

**Instance Fields:**

* **String question;**
* **String[] answers;**
* **String type;**
* **String correct;**

**QuestionRemote.java**

* **Question newQuestion(String t, String q, String a1, String a2, String a3, String a4, String c)**
* **Question updateQuestion(String t, String q, String a1, String a2, String a3, String a4, String c)**
* **void clearQuestion()**
* **Vector question()**

**QuestionRemoteServant.java**

**Methods:**

* **QuestionRemoteServant()**
* **Question newQuestion(String t, String q, String a1, String a2, String a3, String a4, String c)**
* **Question updateQuestion(String t, String q, String a1, String a2, String a3, String a4, String c)**
* **void clearQuestion()**
* **Vector question()**

**Instance Fields:**

* **Vector<QuestionServant> quest**

**UserGui.java**

**Methods:**

* **public UserGUI()**
* **private void initComponents()**
* **class userlistRefresh**
* **class questionRefresh**
* **class answerTimer**
* **class answerlistRefresh**
* **public void studentFrameCreation()**
* **public void instructorFrameCreation**
* **public void answerlistFrameCreation()**
* **private void loginButtonActionPerformed(java.awt.event.ActionEvent evt)**
* **private void registerButtonActionPerformed(java.awt.event.ActionEvent evt)**
* **private void registerButtonActionPerformed(java.awt.event.ActionEvent evt)**
* **private void qtypeShortRadioActionPerformed(java.awt.event.ActionEvent evt)**
* **private void qtypeMcRadioActionPerformed(java.awt.event.ActionEvent evt)**
* **private void instructorFrameWindowClosing(java.awt.event.WindowEvent evt)**
* **private void studentFrameWindowClosing(java.awt.event.WindowEvent evt)**
* **private void submitButtonActionPerformed(java.awt.event.ActionEvent evt)**
* **private void qsubmitButtonActionPerformed(java.awt.event.ActionEvent evt)**
* **public static void main(String args[])**

**Instance Fields:**

* **Static String IPAddress**
* **UserList userList;**
* **QuestionRemote questionList;**
* **AnswerList answerList;**
* **Vector sList;**
* **Vector qList;**
* **Vector aList;**
* **boolean uExists = false;**
* **boolean iExists = false;**
* **String username;**
* **String password;**
* **String type;**
* **boolean online = false;**
* **int userListIndex = 0;**
* **String qType;**
* **String teacherQuest;**
* **String correct;**
* **String answer;**
* **String unEntry;**
* **String passEntry;**
* **String radioSelection;**
* **ArrayList<String> counted;**
* **int rcount;**
* **int acount;**
* **int bcount;**
* **int ccount;**
* **int dcount;**

**GUI Instance Fields:**

* **private javax.swing.JLabel aLabel;**
* **private javax.swing.JLabel aNoLabel;**
* **private javax.swing.JTextArea aTextArea;**
* **private javax.swing.JTextArea aTextArea2;**
* **private javax.swing.JFrame answerListFrame;**
* **private javax.swing.JTable answerTable;**
* **private javax.swing.JLabel bNoLabel;**
* **private javax.swing.JLabel cNoLabel;**
* **private javax.swing.JLabel correctNoLabel;**
* **private javax.swing.JLabel dNoLabel;**
* **private javax.swing.JLabel incorrectNoLabel;**
* **private javax.swing.JFrame instructorFrame;**
* **private javax.swing.JRadioButton instructorRadio;**
* **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 jLabel6;**
* **private javax.swing.JLabel jLabel7;**
* **private javax.swing.JScrollPane jScrollPane1;**
* **private javax.swing.JScrollPane jScrollPane2;**
* **private javax.swing.JScrollPane jScrollPane3;**
* **private javax.swing.JScrollPane jScrollPane4;**
* **private javax.swing.JScrollPane jScrollPane5;**
* **private javax.swing.JScrollPane jScrollPane6;**
* **private javax.swing.JScrollPane jScrollPane7;**
* **private javax.swing.JButton loginButton;**
* **private javax.swing.JLabel logoPic;**
* **private javax.swing.JTextField mcAnswer1;**
* **private javax.swing.JTextField mcAnswer2;**
* **private javax.swing.JTextField mcAnswer3;**
* **private javax.swing.JTextField mcAnswer4;**
* **private javax.swing.JLabel mcAnswerLabel1;**
* **private javax.swing.JLabel mcAnswerLabel2;**
* **private javax.swing.JLabel mcAnswerLabel3;**
* **private javax.swing.JLabel mcAnswerLabel4;**
* **private javax.swing.ButtonGroup mcGroup;**
* **private javax.swing.JRadioButton mcRadio1;**
* **private javax.swing.JRadioButton mcRadio2;**
* **private javax.swing.JRadioButton mcRadio3;**
* **private javax.swing.JRadioButton mcRadio4;**
* **private javax.swing.JOptionPane noUserPane;**
* **private javax.swing.JLabel pLabel;**
* **private javax.swing.JPasswordField passField;**
* **private javax.swing.JLabel qLabel;**
* **private javax.swing.JLabel qLabel2;**
* **private javax.swing.JTextArea qTextArea;**
* **private javax.swing.JTextArea qTextArea2;**
* **private javax.swing.ButtonGroup qTypeGroup;**
* **private javax.swing.JButton qsubmitButton;**
* **private javax.swing.JLabel qtypeLabel;**
* **private javax.swing.JRadioButton qtypeMcRadio;**
* **private javax.swing.JRadioButton qtypeShortRadio;**
* **private javax.swing.JButton registerButton;**
* **private javax.swing.JFrame studentFrame;**
* **private javax.swing.JRadioButton studentRadio;**
* **private javax.swing.JButton submitButton;**
* **private javax.swing.JLabel uLabel;**
* **private javax.swing.JTextField userField;**
* **private javax.swing.JTable userListTable;**
* **private javax.swing.JTable userListTable1;**
* **private javax.swing.ButtonGroup userTypeGroup;**