

Answer on Question#38300- Programming, C#

1. The operations-related data of FlyHigh Airlines is stored in a central database. The software fails to respond to user inputs, if there is a connectivity problem with the database. Add the code snippet that the development team should use to ensure that the application shows a user-friendly message, if such a situation arises in future.

Solution.

This code must be placed in a function that will call the connection test:

```
String Security = "";
if (comboBox1.Text == "")
{
    comboBox1.Text = "master";
}

if (radioButton2.Checked == true)
{
    Security = @"Persist Security Info=True;User ID=" + textBox5.Text +
";Password=" + textBox4.Text + "";
}
else if (radioButton1.Checked == true)
{
    Security = "Integrated Security=true";
}

SqlConnection sqlConn = new SqlConnection(@"Server=" + comboBox2.Text +
";Initial Catalog=" + comboBox1.Text + ";" + Security);

try
{
    string _databasename = comboBox1.Text;
    sqlConn.Open();
    MessageBox.Show("Checking the connection. "Connecting to database ",
MessageBoxButtons.OK, MessageBoxIcon.Information);
    SqlCommand sqlCmd = new SqlCommand();
    sqlCmd.Connection = sqlConn;
    sqlCmd.CommandType = CommandType.StoredProcedure;
    sqlCmd.CommandText = "sp_helpdb";

    SqlDataAdapter da = new SqlDataAdapter(sqlCmd);
    DataSet ds = new DataSet();
    da.Fill(ds);

    foreach (DataRow row in ds.Tables[0].Rows)
    {
        comboBox1.Items.Add(row["name"].ToString());
    }
    sqlConn.Close();
    comboBox1.Text = _databasename;
    button3.Enabled = true;
}
catch
{
    MessageBox.Show("Failed to check the connection. \n \n SQL server is
unavailable. \n Log in data may be incorrect. "" Connecting to a database ",
MessageBoxButtons.OK, MessageBoxIcon.Error); }
```