Bài Tập Chương 3 - ádasdads

Hệ điều hành (Trường Đại học Sư phạm Kỹ thuật Thành phố Hồ Chí Minh)

NHÓM 15

ASSIGNMENT

1.Viết chương trình kết nối CSDL SQL Server theo mô hình Client-Server bằng C#.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Connection_to_Database
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            rdbWindows.Checked = true;
            txtMatKhau.ReadOnly = true;
            txtTaiKhoan.ReadOnly = true;
        }

        private void rdbWindows_CheckedChanged(object sender, EventArgs e)
        {
            txtTaiKhoan.ReadOnly = true;
            txtMatKhau.ReadOnly = true;
            txtTenDb.ReadOnly = false;
            txtTenServer.ReadOnly = false;
        }

        private void rdbSQL_CheckedChanged(object sender, EventArgs e)
        {
            txtTaiKhoan.ReadOnly = false;
```

```
            txtMatKhau.ReadOnly = false;
            txtTenDb.ReadOnly = false;
            txtTenServer.ReadOnly = false;
        }

        private void btnCancel_Click(object sender, EventArgs e)
        {
            DialogResult dg = MessageBox.Show("Bạn có muốn thoát?", "Thông báo",
MessageBoxButtons.OKCancel, MessageBoxIcon.Question);
            if(dg == DialogResult.OK)
            {
                Application.Exit();
            }
        }

        private void btnConnect_Click(object sender, EventArgs e)
        {
            try
            {
                SqlConnection conn = new SqlConnection();
                string connectionstring = "";
                if (rdbWindows.Checked == true)
                {
                    connectionstring = "server=" + txtTenServer.Text;
                    connectionstring += ";database=" + txtTenDb.Text;
                    connectionstring += ";integrated security=true";
                    conn.ConnectionString = connectionstring;
                }
                else
                {
                    connectionstring = "server=" + txtTenServer.Text;
                    connectionstring += ";database=" + txtTenDb.Text;
                    connectionstring += ";uid=" + txtTaiKhoan.Text;
                    connectionstring += ";pwd=" + txtMatKhau.Text;
                    conn.ConnectionString = connectionstring;
                }
                conn.Open();
                MessageBox.Show("ket noi thanh cong");
                conn.Close();
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
            }
        }
```

```
    }
}
```

2.Viết chương trình kết nối CSDL SQL Server trên thiết bị di động sử dụng hệ điều hành Android.

.xml :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/connectButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Connect to Database" />

    <TextView
        android:id="@+id/resultTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="Result:" />
</LinearLayout>
```

.java :

```
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.sql.Connection;
import java.sql.ResultSet;
```

```
import java.sql.Statement;
import java.sql.SQLException;

public class MainActivity extends AppCompatActivity {
    private Button connectButton;
    private TextView resultTextView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        connectButton = findViewById(R.id.connectButton);
        resultTextView = findViewById(R.id.resultTextView);

        connectButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ConnectDBTask task = new ConnectDBTask();
                task.execute();
            }
        });
    }

    private class ConnectDBTask extends AsyncTask<Void, Void, String> {
        @Override
        protected String doInBackground(Void... voids) {
            try {
                Connection conn = SQLConnector.connect();
                Statement stmt = conn.createStatement();
                ResultSet rs = stmt.executeQuery("SELECT * FROM
your_table_name");

                StringBuilder result = new StringBuilder();

                while (rs.next()) {
                    String data = rs.getString("column_name");
                    result.append(data).append("\n");
                }

                rs.close();
                stmt.close();
                conn.close();

                return result.toString();
```

```
            } catch (SQLException e) {
                e.printStackTrace();
                return "Error: " + e.getMessage();
            }
        }
        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
            resultTextView.setText("Result:\n" + s);
        }
    }
}
```