**IT 230 Final Project**

**IT-230 Software Develop with C#.NET**

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**IT 230 Final Project**

A screenshot of a computer

AI-generated content may be incorrect.

**This shows the opening segment of the program, where you can choose to register for your first class, starting with nothing registered and 0 total credit hours.** A screenshot of a computer

AI-generated content may be incorrect.

**This shows where I have now registered for IT 145, with a confirmation message and an addition of 3 Credit hours to my Total.**

A screenshot of a computer

AI-generated content may be incorrect.

**This shows I have registered for a second course, IT 200, and adds my total Credit Hours to 6. The confirmation also confirms the correct course was chosen.** A screenshot of a computer screen

AI-generated content may be incorrect.

**This shows that I mistakenly tried to register for IT 200 for a second time, and the message informs me that I am already registered for that course. My Total Credit Hours remains the same.**

A screenshot of a computer screen

AI-generated content may be incorrect.

**This shows that I have managed to register for my third course, IT 328, which is correctly confirmed in my message, and my Total Credit Hours is now updated to 9.**

A screenshot of a computer

AI-generated content may be incorrect.

**This shows that I am prevented from registering for IT 315 or any other class, as I have registered for 9 Credit Hours already, and cannot register for more.**

**The MainWindow.xaml file was edited to read:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Data;

using System.Windows.Documents;

using System.Windows.Input;

using System.Windows.Media;

using System.Windows.Media.Imaging;

using System.Windows.Navigation;

using System.Windows.Shapes;

namespace WPFRegisterStudent

{

/// <summary>

/// Interaction logic for MainWindow.xaml

/// </summary>

public partial class MainWindow : Window

{

Course choice;

private List<Course> registeredCourses = new List<Course>();

private int totalCreditHours = 0;

public MainWindow()

{

InitializeComponent();

}

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

Course course1 = new Course("IT 145");

Course course2 = new Course("IT 200");

Course course3 = new Course("IT 201");

Course course4 = new Course("IT 270");

Course course5 = new Course("IT 315");

Course course6 = new Course("IT 328");

Course course7 = new Course("IT 330");

this.comboBox.Items.Add(course1);

this.comboBox.Items.Add(course2);

this.comboBox.Items.Add(course3);

this.comboBox.Items.Add(course4);

this.comboBox.Items.Add(course5);

this.comboBox.Items.Add(course6);

this.comboBox.Items.Add(course7);

this.textBox.Text = "0";

}

private void button\_Click(object sender, RoutedEventArgs e)

{

choice = (Course)(this.comboBox.SelectedItem);

label3.Content = "";

if (choice == null)

{

label3.Content = "";

return;

}

if (choice.IsRegisteredAlready())

{

label3.Content = $"You have already registered for this {choice.getName()} course.";

return;

}

if (registeredCourses.Count >= 3)

{

label3.Content = "You cannot register for more than 9 credit hours.";

return;

}

// Registration is valid

choice.SetToRegistered();

registeredCourses.Add(choice);

totalCreditHours += 3;

listBox.ItemsSource = null;

listBox.ItemsSource = registeredCourses;

textBox.Text = totalCreditHours.ToString();

label3.Content = $"Registration confirmed for course {choice.getName()}.";

}

}

}

The Course.cs code reads:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace WPFRegisterStudent

{

class Course

{

private string name = "";

private bool isRegisteredAlready = false;

public Course(string name)

{

this.name = name;

}

public void setName(string name)

{

this.name = name;

}

public string getName()

{

return name;

}

public bool IsRegisteredAlready()

{

return isRegisteredAlready;

}

public void SetToRegistered()

{

isRegisteredAlready = true;

}

public override string ToString()

{

return getName();

}

}

}