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IT-230

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Module Seven: Final Project Part 2

**Screenshots**

Screenshot 1 – Initial application load; changed from Teacher’s Copy to student name in the title bar

A screenshot of a computer screen

Description automatically generated

Screenshot 2 – Error message for clicking the register button if no course is selected

A screenshot of a computer

Description automatically generated

Screenshot 3 – One course successfully registered; message shown and credit hours updated

A screen shot of a computer

Description automatically generated

Screenshot 4 – Two courses confirmed

A screenshot of a computer

Description automatically generated

Screenshot 5 – Three courses confirmed

A screenshot of a computer

Description automatically generated

Screenshot 6 – Duplicate courses selected message

A screenshot of a computer screen

Description automatically generated

Screenshot 7 – Above credit hours limit message

A screenshot of a computer screen

Description automatically generated

**Source Code (MainWindow.xaml.cs)**

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;

using System.Xml.Serialization;

namespace WPFRegisterStudent

{

/// <summary>

/// Interaction logic for MainWindow.xaml

/// </summary>

public partial class MainWindow : Window

{

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 = totalCreditHours.ToString();

}

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

{

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

// \*\*\* COMPLETED!!! \*\*\*

// Create code to validate user selection (the choice object)

// and to display an error or a registration confirmation message accordingly.

// Also update the total credit hours textbox if registration is confirmed for a selected course.

if (choice == null)

{

messageTextBlock.Text = "Please select a course.";

return;

}

// Validate the user's selection

if (choice.IsRegisteredAlready())

{

messageTextBlock.Text = ($"You have already registered for {choice.getName()}.");

}

else if (totalCreditHours >= 9)

{

messageTextBlock.Text = "You cannot register for more than 9 credit hours.";

}

else

{

// Register the course

choice.SetToRegistered();

registeredCourses.Add(choice);

totalCreditHours += 3;

textBox.Text = totalCreditHours.ToString();

listBox.Items.Add(choice);

messageTextBlock.Text = $"Registration confirmed for {choice.getName()}.";

}

}

}

}