

Name: Richard Cubia

Section: BSIT-402

1. Screenshot of the design:

The screenshot shows a Windows application window titled "Student Registration". Inside the window is a form titled "Student Registration Form". The form contains the following fields and controls:

- Last Name ***: A text input field.
- First Name ***: A text input field.
- Middle Name ***: A text input field.
- Gender ***: Two radio buttons labeled "Male" and "Female".
- Date of Birth ***: Three dropdown menus labeled "-Day-", "-Month-", and "-Year-".
- Program to apply ***: A dropdown menu labeled "-Select Program-".
- Register student**: A red button.

2. Screenshot of the code:

```
using System.Collections;
using System.Xml.Linq;
using Microsoft.VisualBasic.ApplicationServices;
namespace StudentRegistrationApplication
{
    3 references
    public partial class Form1 : Form
    {
        1 reference
        public Form1()
        {
            InitializeComponent();
        }

        1 reference
        private void Form1_Load(object sender, EventArgs e)
        {
        }

        1 reference
        private void Year_SelectedIndexChanged(object sender, EventArgs e)
        {
            int Years = DateTime.Now.Year;
            for (int year = 1900; year <= Years; year++)
            {
                Year.Items.Add(year);
            }
        }

        1 reference
        private void Month_SelectedIndexChanged(object sender, EventArgs e)
        {
            string[] months = {
                "January", "February", "March", "April",
                "May", "June", "July", "August",
                "September", "October", "November", "December"
            };

            foreach (string month in months)
            {
            }
        }
    }
}
```

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```
Form1.Designer.cs* Form1.cs [Design]* Form1.cs* X
StudentRegistrationApplication StudentRegistrationApplication.Form1 Month_SelectedIndexChanged(object sender, EventArgs e)

};

foreach (string month in months)
{
    Month.Items.Add(month);
}

1 reference
private void Day_SelectedIndexChanged(object sender, EventArgs e)
{
    for (int day = 0; day < 31; day++)
    {
        Day.Items.Add(day);
    }
}

1 reference
private void comboBox4_SelectedIndexChanged(object sender, EventArgs e)
{
    ArrayList programs = new ArrayList
    {
        "Bachelor of Science in Computer Science",
        "Bachelor of Science in Information Technology",
        "Bachelor of Science in Information Systems",
        "Bachelor of Science in Computer Engineering"
    };

    foreach (string program in programs)
    {
        Program.Items.Add(program);
    }
}

1 reference
private void button1_Click(object sender, EventArgs e)
{
    string LastName = Lname.Text;
    string FirstName = Fname.Text;
    string MiddleName = Mname.Text;
    string day = Day.SelectedItem?.ToString() ?? string.Empty;
    string month = Month.SelectedItem?.ToString() ?? string.Empty;
    string year = Year.SelectedItem?.ToString() ?? string.Empty;
    string program = Program.SelectedItem?.ToString() ?? string.Empty;
    string gender;
    if (Male.Checked)
    {
        gender = "Male";
    }
    else
    {
        gender = "Female";
    }

    if (string.IsNullOrEmpty(LastName) || string.IsNullOrEmpty(FirstName) ||
        string.IsNullOrEmpty(day) || string.IsNullOrEmpty(month) || string.IsNullOrEmpty(year))
    {
        MessageBox.Show("Please fill in all fields.", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
        return;
    }

    string message = "Student name: " + FirstName + " " + MiddleName + " " + LastName +
        "\nGender: " + gender + "\nDate of birth: " + day + "/" + month + "/" + year + "\nProgram: " + program;
    MessageBox.Show(message);
}

1 reference
private void Fname_TextChanged(object sender, EventArgs e)
{
}
}
```

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3. Screenshot of the output:

The screenshot shows a Windows application window titled "Student Registration". Inside, there is a form titled "Student Registration Form" with the following fields and controls:

- Last name ***: Text box containing "Cubia".
- First name ***: Text box containing "Richard".
- Middle name ***: Text box containing "Lorica".
- Gender ***: Radio buttons for "Male" (selected) and "Female".
- Date of Birth ***: Three dropdown boxes showing "9", "5", and "2004".
- Program to apply ***: Dropdown menu showing "Bachelor of Science in Information Technology".
- Register Student**: A red button at the bottom.

Overlaid on the right side of the form is a smaller dialog box with a close button (X) in the top right corner. It displays the following information:

- Student name: Richard Lorica Cubia
- Gender: Male
- Date of birth: 9/5/2004
- Program: Bachelor of Science in Information Technology
- OK**: A button at the bottom right.

4. Code:

```
using System.Collections;
using System.Xml.Linq;
using Microsoft.VisualBasic.ApplicationServices;
namespace StudentRegistrationApplication
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void Form1_Load(object sender, EventArgs e)
        {
        }

        private void Year_SelectedIndexChanged(object sender, EventArgs e)
        {
            int Years = DateTime.Now.Year;
        }
    }
}
```

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```
        for (int year = 1900; year <= Years; year++)
        {
            Year.Items.Add(year);
        }
    }

    private void Month_SelectedIndexChanged(object sender, EventArgs e)
    {
        string[] months = {
            "January", "February", "March", "April",
            "May", "June", "July", "August",
            "September", "October", "November", "December"
        };

        foreach (string month in months)
        {
            Month.Items.Add(month);
        }
    }

    private void Day_SelectedIndexChanged(object sender, EventArgs e)
    {
        for (int day = 0; day < 31; day++)
        {
            Day.Items.Add(day);
        }
    }

    private void comboBox4_SelectedIndexChanged(object sender, EventArgs e)
    {
        ArrayList programs = new ArrayList
        {
            "Bachelor of Science in Computer Science",
            "Bachelor of Science in Information Technology",
            "Bachelor of Science in Information Systems",
            "Bachelor of Science in Computer Engineering"
        };

        foreach (string program in programs)
        {
            Program.Items.Add(program);
        }
    }
}
```

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```
private void button1_Click(object sender, EventArgs e)
{
    string LastName = Lname.Text;
    string FirstName = Fname.Text;
    string MiddleName = Mname.Text;
    string day = Day.SelectedItem?.ToString() ?? string.Empty;
    string month = Month.SelectedItem?.ToString() ?? string.Empty;
    string year = Year.SelectedItem?.ToString() ?? string.Empty;
    string program = Program.SelectedItem?.ToString() ?? string.Empty;
    string gender;
    if (Male.Checked)
    {
        gender = "Male";
    }
    else
    {
        gender = "Female";
    }

    if (string.IsNullOrEmpty(LastName) || string.IsNullOrEmpty(FirstName) ||
        string.IsNullOrEmpty(day) || string.IsNullOrEmpty(month) ||
        string.IsNullOrEmpty(year))
    {
        MessageBox.Show("Please fill in all fields.", "Error", MessageBoxButtons.OK,
        MessageBoxIcon.Error);
        return;
    }
    string message = "Student name: " + FirstName + " " + MiddleName + " " + LastName +
        "\nGender: " + gender + "\nDate of birth: " + day + "/" + month + "/" + year + "\nProgram: "
+ program;
    MessageBox.Show(message);
}

private void Fname_TextChanged(object sender, EventArgs e)
{
}
}
```

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5. Flowchart:

