**Western Technical College**

# 10152190 Introduction to .NET

**Performance Assessment Tasks**

# Project Proposal Timeline

**Western Technical College**

### Directions

Final Project:  Create a Windows Forms C# application that focuses on your global goal.

**Part one:** Project Proposal (25 points total)

Purpose: You have spent the past few weeks exploring the Sustainability Goals through the United Nations website (https://www.globalgoals.org/). You have identified a potential focus for you global goal.  You will apply all the technical skills you have learned in this course to create a Windows Forms C# application that collects data relevant to your global goal.

Task: provide a Project Proposal by the indicated due date.  This part of your final project is worth 25 points. Be sure to include all of the following:

- Introduction to the problem you chose
- Objectives of the application  (What is the application supposed to do?)
- A description of Target Clients (who will find value in this application? Who will learn from it?)
- An explanation of the Value of the Project
- Features and Description of the application
- Include a Timeline for the project (what are you going to do each day/week to complete your project on time).

**Due Monday, March 21$^{st}$ by 5:00 p.m.**

Criteria: Use the scoring guide to self-assess your proposal prior to submitting.

**Evaluator(s):** Instructor and Self

### Target Course Competencies

1.      Develop a project proposal for an application that incorporates global goals.

### Rating Scale

| Value | Description |
|---|---|
| 4 | Work exceeds criterion; shows depth in insight and grasp of the learning; explanations provide main ideas/goals and supporting information to clearly articulate the project |
| 3 | Work and explanations meets criterion adequately - some supporting information is vague or missing but the main ideas/goals are present |
| 2 | Work and explanations are lacking all supporting details but the main ideas/goals of the project can still be identified. |
| 1 | Work and explanations does not provide enough information to identify the main ideas/goals of the project |

### Scoring Standard

You must achieve a rating of at least "3" on each criterion to demonstrate competence and continue on with the project.  This would indicate that the overall competency (and related proposal) is "Satisfactory".

Scores that receive a rating or "2" or less need to be resubmitted after the student has addressed the formative feedback provided by the instructor.

Project Proposal turned in on time will score a "1" on the due date criterion.  Project proposals not turned in on time will score a "0" on due date

**Scoring Guide**

| | Criteria | Ratings |
|---|---|---|
| **1.** | **Develop a project proposal for an application that incorporates global goals.** | **Satisfactory Unsatisfactory** |
| 2. | you summarize your project. | 4  3  2  1 |
| 3. | you define the objectives of your application. | 4  3  2  1 |
| 4. | you describe the target clients for your application. | 4  3  2  1 |
| 5. | you identify the value of the project. | 4  3  2  1 |
| 6. | you highlight the features and description of the application. | 4  3  2  1 |
| 7. | you develop a timeline for project completion. | 4  3  2  1 |
| 8. | you submit project proposal by indicated due date | 1  0 |

**Part two**:  Summarize Research (5 sources required; 2 points for each source)

Purpose: Your project must incorporate data and information based on research conducted.  Use the following reputable sites to to collect data and information for your project:

NPR.org, World Health Organization, BBC, fivethirtyeight.com, New York Times, Washington Post, Wall Street Journal, gatesfoundation.org, information from the Global Goals website, etc.

Task: You must include data and information from a minimum of 5 sources. Summarize the data/information you collect that will be incorporated into your project.

To summarize your research include the following:

1.  Name of the source used

2.  Data and/or information from source that will be incorporated into your project.

3.  Explanation as to how this data/information will be used

Your instructor will provide you with feedback related to your project proposal and research before you continue with the project.

Each summary provided from the sources is worth 2 points for a total of 10 points for the research.

- 1 pt for citing the source for data/information from the source that will be used in the application
- 1 pt for explanation of how/why it will be used in the application

**Sources due Monday, March 28th by 5:00 p.m.**

# Final Project - Windows Forms C# Application

# Due Monday, April 18 by 5:00 p.m.

**Project: Create a Windows Forms C# application based on the identified global goal and your project proposal.**

**Purpose:**  This project provides you with an opportunity to apply all the technical skills you have developed related to programming and Windows applications to create your own application connected to the global goal you identified.

**Task:** Based on your project proposal and the research you have already completed, create a Windows Forms C# Application. You will include all of these concepts into your program: numeric and string data (chapter 4), control structures (chapter 5), methods and event handlers (chapter 6), exceptions and data validation (chapter 7), arrays and collections (chapter 8), dates and strings (chapter 9), combo box, list box, radio button, check box, and group box (at least two of these, chapter 10).

Additional requirements: You should have a minimum of three forms that users can access by the click of a button. Note: These are INDIVIDUAL forms, NOT a Windows TabControl. Users must be able to click on all your web links to get to the sites from which you gathered your information. Your program must be user friendly and error-free meaning there are no unhandled events. Include the use of industry best practices which is to comment your code and use proper coding format like object naming conventions.

After completing the development of your project, record a short presentation where you demonstrate the application.

Use the scoring guide and the criteria to self-assess your application as you work on it.

**Evaluator(s):** Instructor and Self

**Target Course Competencies**

1.      Create a Windows Forms C# application based on the project proposal.

**Target Success Abilities**
1.      Live Responsibly: Embrace Sustainability

2.      Refine Professionalism: Improve Critical Thinking

**Rating Scale**

| Value | Description |
|---|---|
| Met | Fully or adequately met expectations |
| Not Met | Partially met or failed to meet expectations |
| Present | Item is present and meets quality expectations. |
| Not Present | Item does not meet quality expectations or is not present. |

**Scoring Standard**

Your final evaluation is based on performing and meeting all of the "met/not met" criterion as outlined in the assignment. These met/not met criterion reflect the focus of the course - to be able to apply programming skills to create an application. You must receive a rating of "met" on each criterion in order to successfully complete this assessment. **If you have no more than 2 areas marked as "not met" you may revise the project and have it regraded by 5:00 p.m. on Wednesday, April 20th in order to pass this course**.

Criterion that are "present / not present" add to the overall appeal of the application and should be considered when submitting your final project. However, if they are "not present", your final grade will not be affected.

<span style="color:red">**Due Monday, April 18th by 5:00 p.m.**</span>

**Scoring Guide**

| | Criteria | Ratings | |
|---|---|---|---|
| **1.** | **Learners embrace sustainability as they build, through their daily practices and educational programming, a thriving, resilient, and just community now and in the future.** | **Met** | **Not Met** |
| **2.** | **Learners improve critical thinking as they connect ideas and evaluate information logically.** | **Met** | **Not Met** |
| **3.** | **Create a Windows Forms C# application based on the project proposal.** | | |
| 4. | you incorporate numeric and string data into application. | Met | Not Met |
| 5. | you incorporate control structures into application. | Met | Not Met |
| 6. | you incorporate methods and event handlers into application. | Met | Not Met |
| 7. | you incorporate exceptions and data validation into application. | Met | Not Met |
| 8. | you incorporate arrays and collections into application. | Met | Not Met |
| 9. | you incorporate dates and strings into application. | Met | Not Met |
| 10. | you incorporate at least two of these: combo box, list box, radio button, check box, and group box. | Met | Not Met |
| 11. | you develop at least three Windows Forms (individual forms, NOT a Windows TabControl). | Met | Not Met |
| 12. | you hyperlink sources within the application. | Met | Not Met |
| 13. | you verify the application is error-free. | Met | Not Met |
| 14. | you verify there are no unhandled events. | Met | Not Met |
| 15. | you comment your code. | Met | Not Met |
| 16. | you use proper coding format including object naming conventions. | Met | Not Met |
| 17. | your application is useful. | Present | Not Present |
| 18. | your application is visually appealing. | Present | Not Present |
| 19. | your project has a name that is clean and catchy. | Present | Not Present |