INFO8231 Systems Development: Concepts & Analysis
Assignment 1

Assignment 1 (A1) Rules:

You are required to work in a team of 4 or 5.

All members of a team:

- are responsible for mastering the skills required to complete the assignment
- are expected to contribute equally
- will receive the same team assignment mark

Notes:

- Do not include the student who did not participate in this assignment.
- Use **MS Teams** collaboration tools to create, edit and finalize your solution.
- A team submits a single team assignment.
- 20% late penalty for each business day late

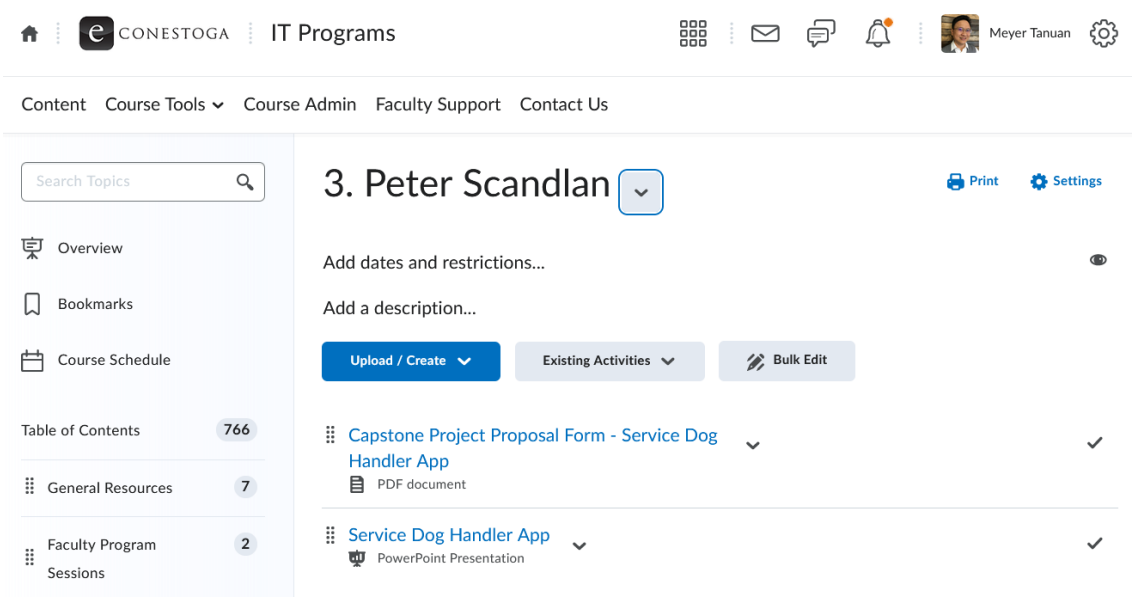
A. Individual Requirement

 Complete the Visual Paradigm tutorial: **Lab_Workflow.pdf**. *Tip: Do the tutorial during your class time to ensure all requirements are met.*

 Read and study the **Project Initiation** documents of the **ITCPA Case Study**:

- **ITCPA_MockCaseStudy.pdf** (mock case study)
  - *Hint: This document determines the "to-be" system (future state).*
- **DesignChallenge2016.pdf**
  - *Hint: This document contains the manual workflow or "as-is" system (current state).*

 Review the **sample client project proposal** (i.e., *Service Dog Handler App proposed by Peter Scandlan* was taken from the **IT Programs** eConestoga course shell). *Note: This sample client proposal is NOT your mock case study.*



B. Team Assignment 1

You are working with the **IT Capstone Project Approval (ITCPA)** system case study. The major subsystems of the proposed solution are:

- External Client Proposal Subsystem (**ECPS**)
- Capstone Project Matching Subsystem (**CPMS**)
- Student Team Management Subsystem (**STMS**)

Task 1: ITCPA Agile Project Charter

CHRM Reference: **13. Project Charters and Project Visions**

In CHRM:

 Review slideshow "**Project Inception and the Project Charter**"

Hint: Follow the comments if and only if they are consistent with the mock case study.

 Review the "**CHRM Project Charter**" example

In MS Teams:

 Make a copy of **A1_ITCPA_TeamYY_Template.docx** to **General\A1** folder on your MS Teams **Files** tab.

 Rename your document to **A1_ITCPA_Team#.docx**

 Fill out the **ITCPA Agile Project Charter** section

Note: We will view the development of the ITCPA system from the perspective of the software developers. The IT program coordinator (PC) and the ACSIT faculty advisor (FA) are the clients for whom you are developing the system.

 Clean up your document and make it look professional (i.e., remove any template comments, etc.)

 Fill out the **Assignment 1 header** with your section, team # and student names

Reminder: Team members must sign their own name.

Task 2: ITCPA Proposed To-be Workflow (UML Activity Diagram)

In Visual Paradigm:

 Create a new Visual Paradigm (VP) project: **A1_ITCPA_Team#.vpp**

- When your team solution is completed, copy the **Workflow** diagram to your document **A1_ITCPA_Team#.docx.** *Hint: Use the Windows Snippet Tool.*

Business Process Name: ITCPA Client Capstone Project Matching Process

 Based on the **ITCPA Mock Case Study**, draw the **Proposed** or **To-be** Workflow (UML activity diagram) with at least **three** process actors.

Hint: Start with the 8 process steps provided on Page 4 of DesignChallenge2016.

 Define the "process goal" (i.e., describe the main purpose of the process) and "process result" (i.e., the outcome must have business value to the stakeholders).

Hint: To simplify your workflow diagram, draw it from the perspective of a single scenario.

 Identify any manual process steps that are missing.

 Look for process steps that can be done in parallel. Use the synchronization bar (i.e., fork and join nodes) as part of your solution.

 Look for process steps that will require decision node(s).

Hint: "Accept a Client Proposal" and "Reject a Client Proposal" must be a part of your solution.

 Identify the process steps or actions that will require the **ITCPA** system (i.e., they will become your new use cases in the next assignment) and highlight them with a green background color to differentiate them from the manual process steps.

Task 3:

 Validate your proposed workflow solution by introducing specific examples from various stakeholders and walking through the process steps.

*Hint: Use the **sample client project proposal** (e.g., Service Dog Handler App).*

 Identify areas that need clarification from the **project contact** (i.e., *Prof. Ted Tanner*). Explore what process steps can be automated further.

 Prepare a list of questions that might help your team validate your proposed workflow solution. Document your interview questions in **Appendix A**.

Reminders:

 Copy the **UML diagram(s)** to your solution document **A1_ITCPA_Team#.docx**.

 Checkpoint: Use the **A1 marking sheet** to self-evaluate your solution.

 Reminder: Add a diagram title for every single diagram.

Submission Requirements:

 Submit your docx and vpp solution files to the **Assignment Dropbox** on **eConestoga** (i.e., **A1_Team**).