CSC413 Assignment 2: Async Task

Due: October 9th, 7:10pm

Task:

Create a program with an event loop that refreshes its output on a fixed timer. In order to accomplish a long task, create a worker thread that will handle the task, and post progress, and result. Use a ConcurrentLinkedQueue to pass event messages. Create an interface or abstract class Message. Create 2 base classes ProgressMessage and CompletionMessage. ProgressMessage will contain a parameter for progress complete, and CompletionMessage will have a parameter for a string result. On every update of the event loop, the main thread will check for messages, then trigger one of two handlers onProgress, and onComplete. onProgress updates the progress widget, onComplete should pass a message saying "Task complete!". After the task is complete, the event loop can exit.

Result:

Progress bar should move and timer should continue while the long task gets completed in the background.

Bitbucket:

Use master and develop branches. Working commits go to develop, only pull request to master when finished. Don't need to do feature branches yet.

Grading:

- 60% For Working Program (Demo)
- 30% Style
- 10% Docs (Turn in zip)