Title: Methods and Tools for Software Engineering

Course ID: ECE 650 Section 001

LEARN: https://learn.uwaterloo.ca

Piazza: https://piazza.com Lectures: Thu 5:30 - 8:20 PM EST

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Office hours by appointment. Begin all email subjects with [ECE650]. Use **Piazza** instead of email whenever possible!

Assignment 0 - Due September 13th, 2022

In this course, we will use GitLab to distribute and submit assignments. The goal of this assignment is to test that you have everything necessary for GitLab to work. The assignment is due after our first lecture and before the second one!

A quick overview of what assignment 0 consists of:

- Create a GitLab account. You can use an existing account if you have one. The UW GitLab can be found at https://git.uwaterloo.ca/.
- Locate the git repository that contains the assignment skeleton. This is your **upstream**. It will be updated for every assignment. The URL is

```
https://git.uwaterloo.ca/ece650-f23/skeleton
```

• Locate the git repository that was created for your in the course group. The URL is

```
https://git.uwaterloo.ca/ece650-f23/class/USERID
```

where USERID is YOUR quest user id. For example, my repository is at https://git.uwaterloo.ca/ece650-f23/class/awasef.

- Follow the instructions in README.md in the skeleton repository. For convenience, they are reproduced below in Section 1.
- Finally, read **Assignment 1** PDF, **BEFORE** our lecture on September 14th, 2023 and be prepared to discuss it and ask questions!

1 Things TODO for Assignment 0

1.1 Clone your personal repository

Set up your local git repository. If you are using the git command line interface, you can do so with the following command:

```
git clone https://git.uwaterloo.ca/ece650-f23/class/USERID.git
```

Where you can find the url to your GitLab repository at https://git.uwaterloo.ca/ece650-f23, under the class sub-group. It should look similar to the following:

```
git clone https://git.uwaterloo.ca/ece650-f23/class/<YOUR-USERID>.git
```

Notice the .git suffix!

1.2 Connect your repository to the assignment skeleton

```
git remote add upstream https://git.uwaterloo.ca/ece650-f23/skeleton
```

1.3 Get assignment content

Start by fetching the remote repository

```
git fetch upstream
```

If you have not done so before, create a master branch:

```
git checkout -b master
```

Merge the new content into your local master branch. You will have to do this every time the skeleton repository is updated for new assignment.

```
git merge upstream/master
```

Update your remote GitLab repository with the new content by pushing master there.

```
git push origin master
```

Finally, check that update actually worked by looking at the content of the repository via a web browser.

1.4 Complete the assignment

If you followed the instructions above, your local repository should contain a folder a0 with a file user.yml

Replace FIRST_NAME, LAST_NAME, WATIAM, and STUDENT_ID, EMAIL in user.yml by your first and last name, WatIAM id, student number, and email, respectively. Use plain ASCII characters as much as possible.

Do not change the format of user.yml. It will be parsed automatically. Only enter the information requested.

Once you have made changes, and have added them with a command such as the following:

```
git add a0/user.yml
```

A "commit" will need to be made. Note that a "commit" contains the changes.

```
git commit -m "ENTER A COMMIT MESSAGE HERE. THIS IS FOR YOUR OWN REFERENCE"
```

Note that the message is optional. It is a message for your own clarity. However, you may find it useful to include meaningful messages in case you need to refer to previous, older commits.

```
git log
```

Once you have a commit ready, it can be pushed onto the GitLab Repository through the following

```
git push origin master
```

We strongly recommend that you go to GitLab and check to make sure your code is visible on GitLab after pushing.

Note that you can see all of the modified files with:

```
git status
```

If you are using git at the command line, it may be useful to configure git on the command line through the following commands.

```
git config --global user.name "FIRSTNAME LASTNAME"
git config --global user.email "USERNAME@uwaterloo.ca"
git config --global push.default simple
git config --global color.ui "true"
```

If you wish to practice using git, you may try the "Learn Git Branching" tutorial on the https://try.github.io/ web page.

For marking, we will use the master branch of your repository at the time of the deadline. It is advised to commit and push often. This way a version of your work is always backed up into the cloud.