ECSE 321 Introduction to Software Engineering

Hands-on Tutorials

McGill University

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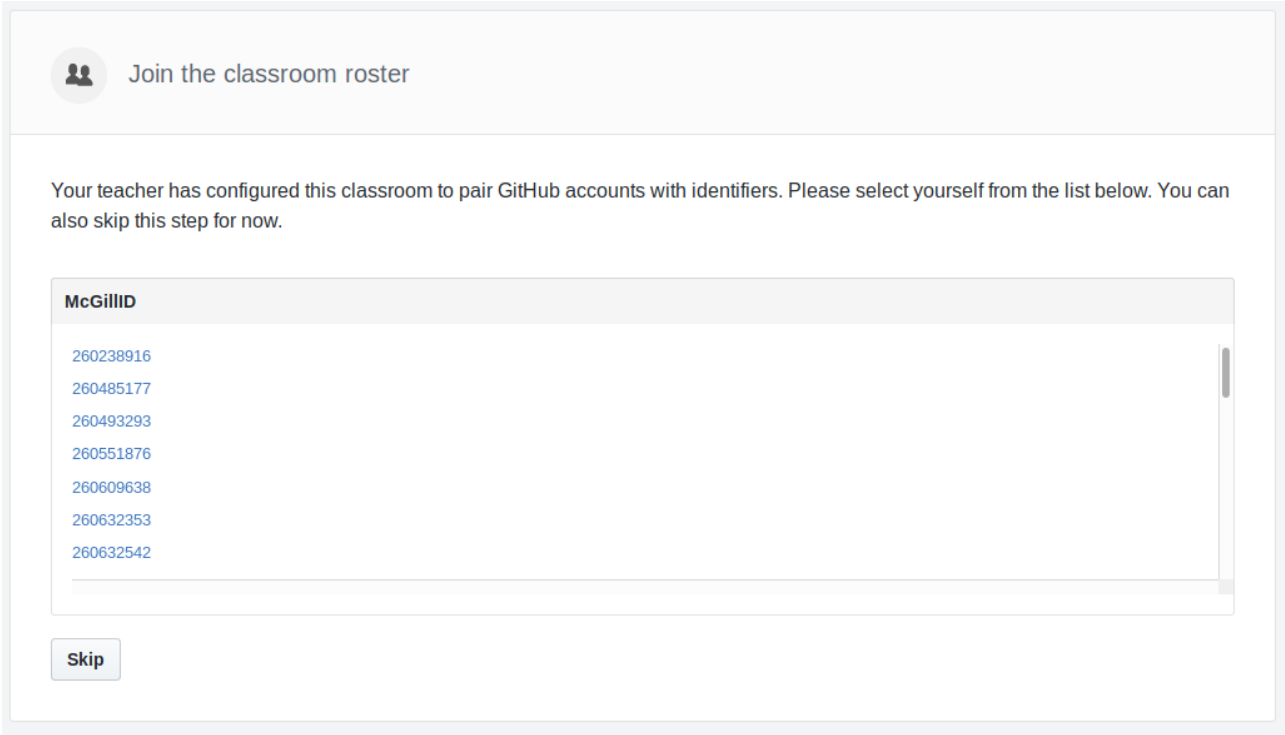
Sections of the tutorial will continuously be published at this web page.

1. Preliminaries

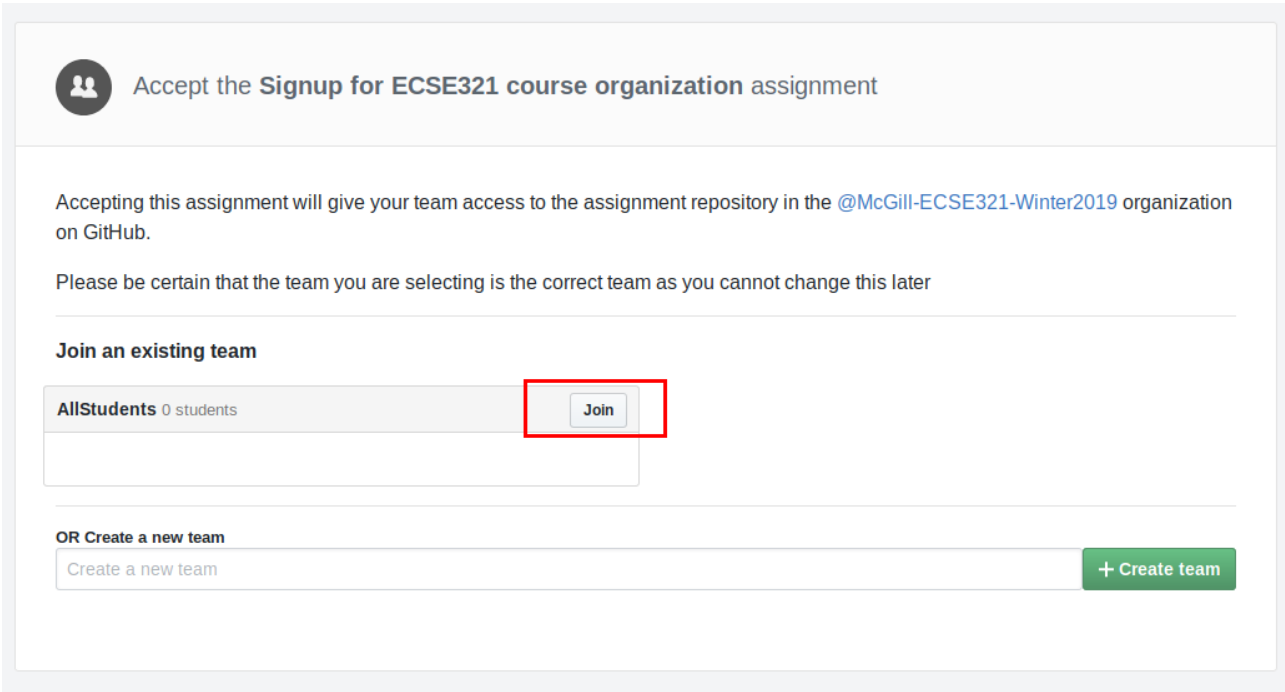
1.1. Getting Started

Steps for signing up for GitHub classroom:

1. Log in/Register on GitHub.
2. Open link https://classroom.github.com/g/HbhgnXXn
3. Select your McGill ID from the list



4. Join team *AllStudents*

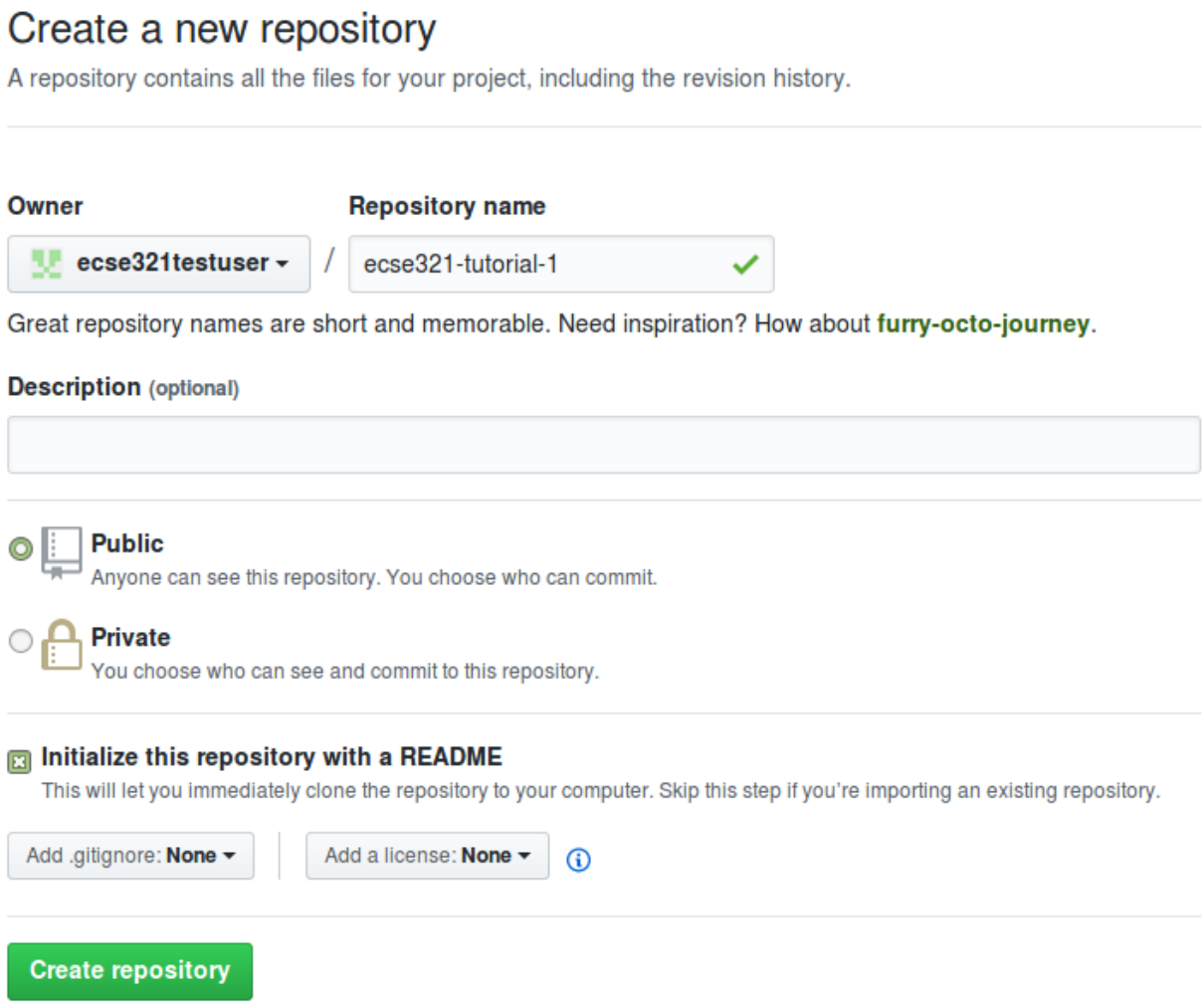


1.2. Project Management Tools for Agile Development

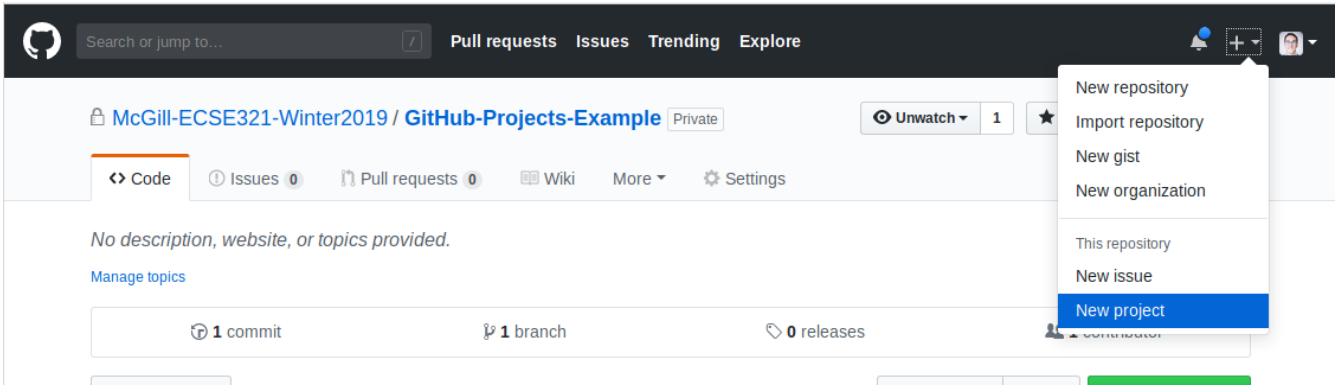
1.2.1. GitHub Projects

First, we create a new repository under everyone's own account to demonstrate the basic features of "GitHub Projects".

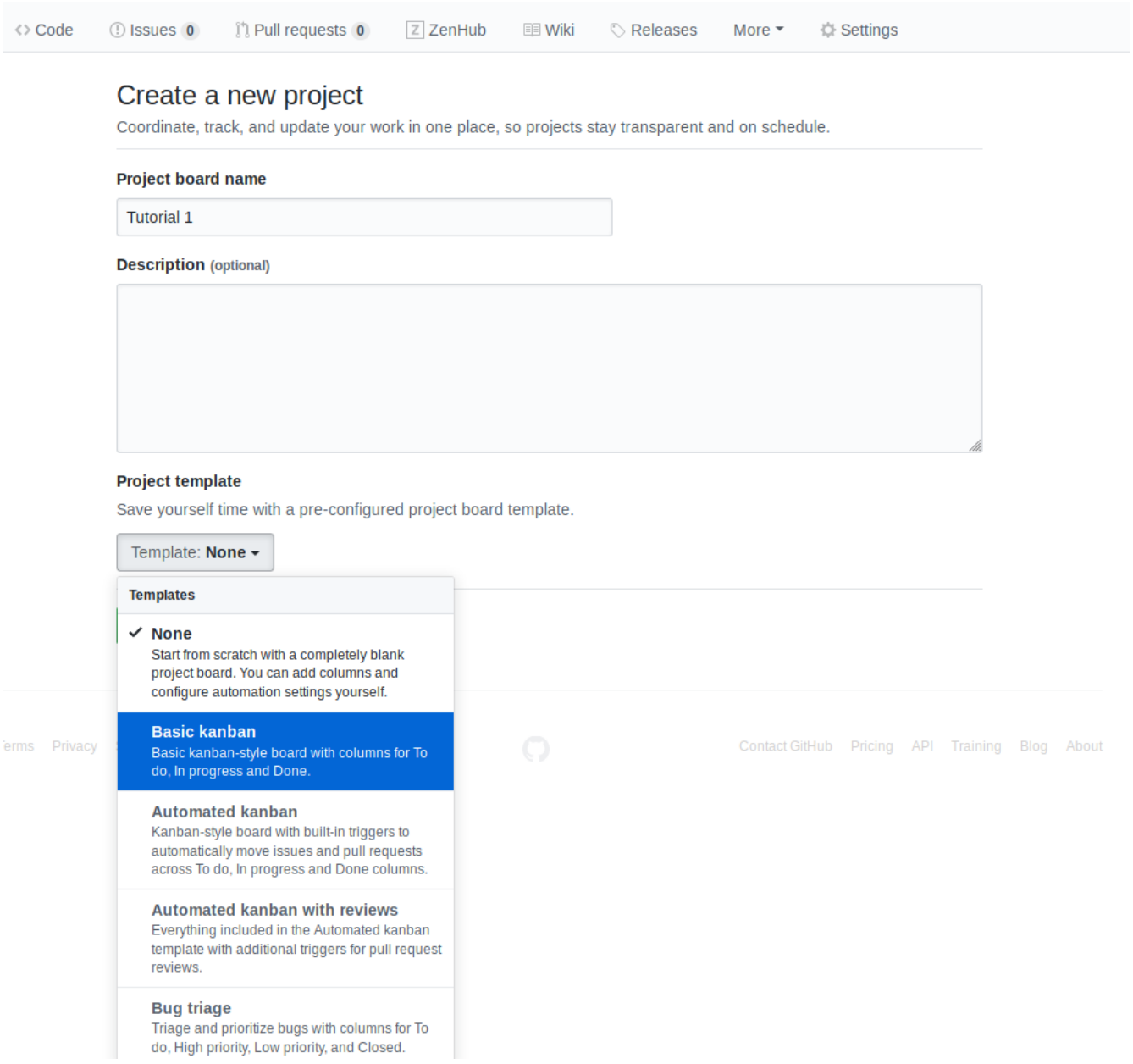
1. Visit https://github.com/ then click on *New repository* (green buttom on the right).
2. Set your user as the owner of the repository.
3. Give a name for the repository (e.g., ecse321-tutorial-1), leave it *public*, then check *Initialize this repository with a README*. Click on *Create repository* afterwards. At this point the remote repository is ready to use.



Once the repository is ready, associate a new GitHub Project and see how their features work. Create a project:

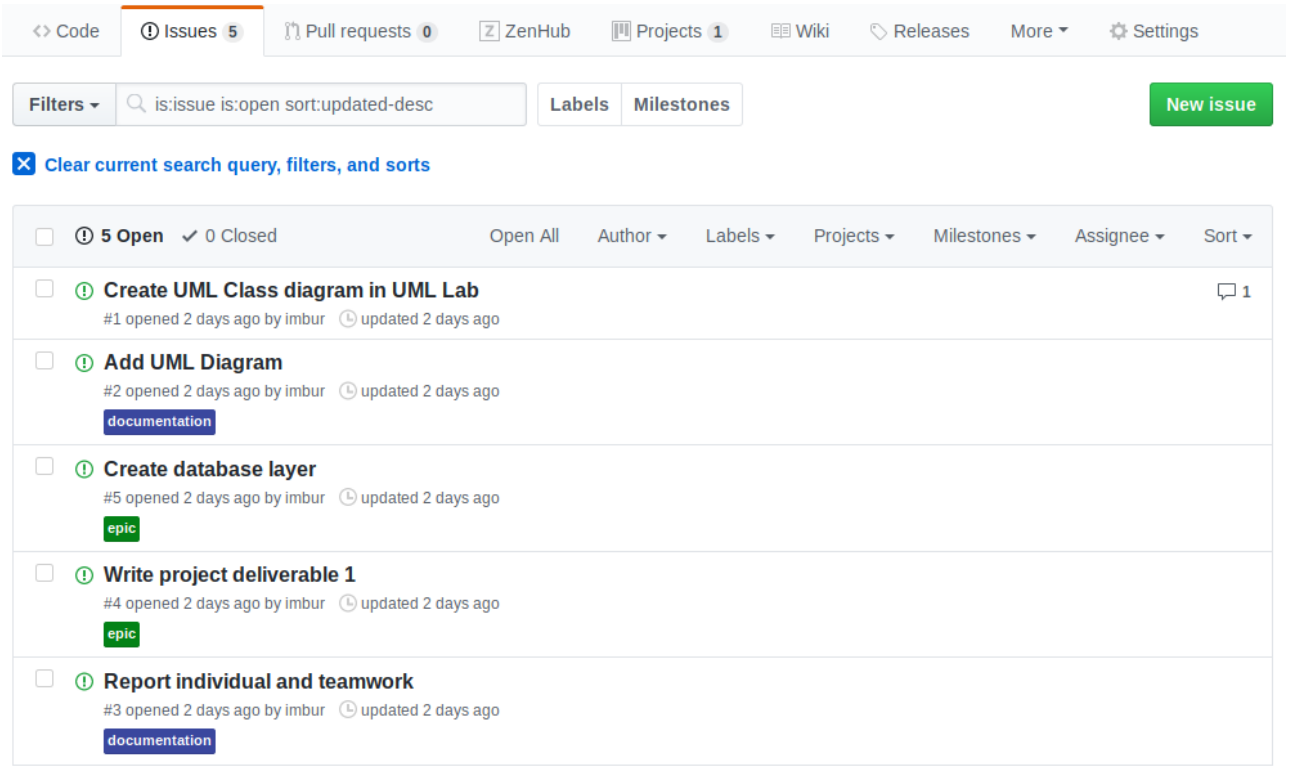


Select Basic Kanban project style:

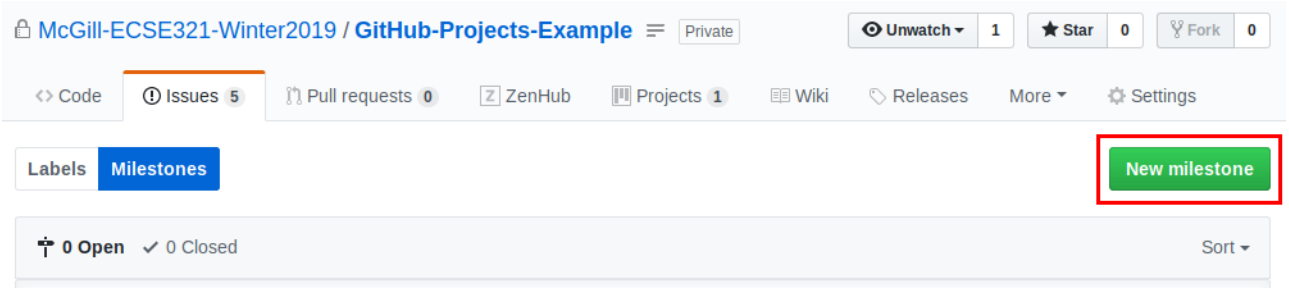


Tasks to complete:

1. Create a few issues to outline the tasks for the first deliverable. Assign them appropriate labels and add yourself as the assignee!



2. Create a milestone for the issues.



3. Create cards from the issues on the project board.
4. See how GitHub track the project progress as you move the cards from the different columns.

1.2.2. ZenHub

ZenHub is an addition to GitHub that is designed to provide features helpful for agile development processes. It basically extends and replaces classic GitHub Projects.

1. Log in with your GitHub account on https://www.zenhub.com/
2. Open the repository at https://github.com/McGill-ECSE321-Winter2019/ZenHub-Example
3. Create a new epic about "Desinging REST API for backend <McGill ID>" and add your McGill ID to make the epic's name unique
4. See how your epic is automatically created as an issue and added to the GitHub issue tracker! What else does ZenHub take care of?
5. Optional: add the Firefox/Chrome ZenHub extension to your browser to allow full integration of ZenHub to the GitHub web UI

Other resources for ZenHub:

- Getting started: https://www.zenhub.com/blog/getting-started-with-zenhub/
- Video tutorial: https://www.youtube.com/watch?v=TRu7vKCg920