

ECSE 321 Introduction to Software  
Engineering  
***Hands-on Tutorials***

McGill University

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- link: [HTML version](#)
- [PDF version](#)

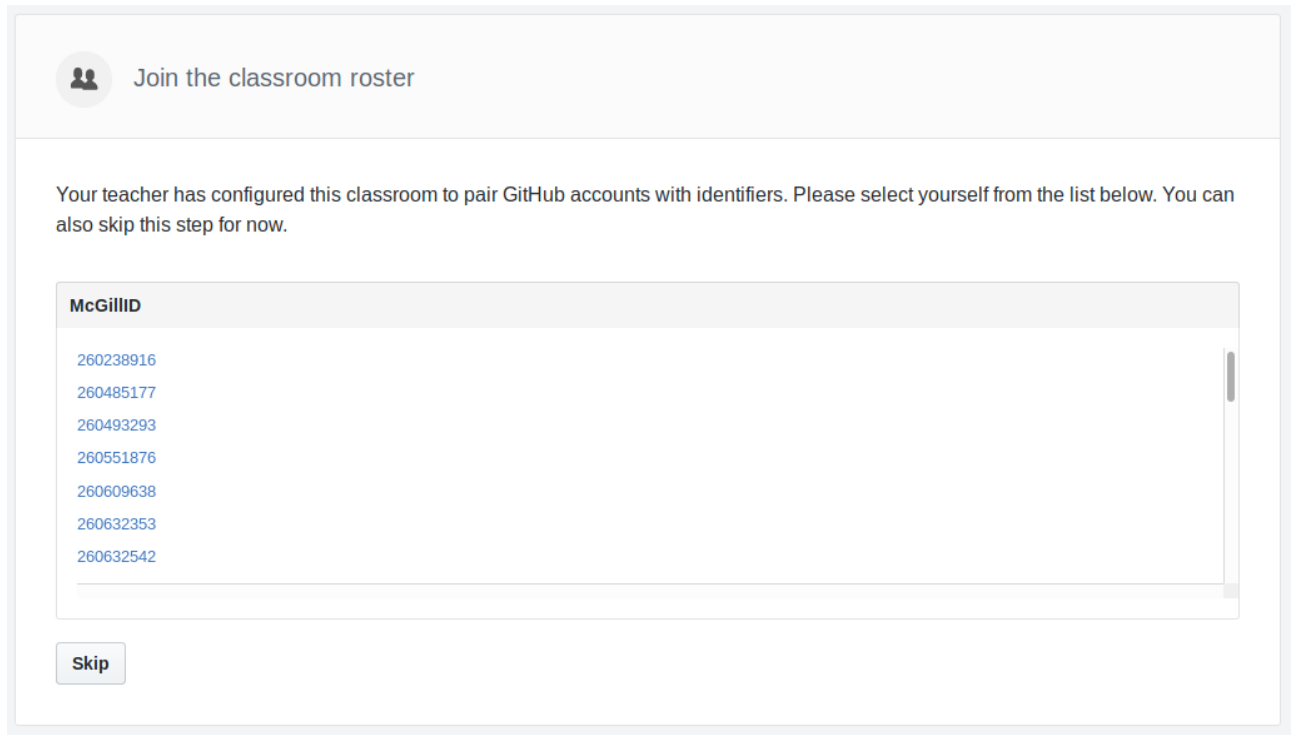
Sections of the tutorial will continuously be published at this web page.

# 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



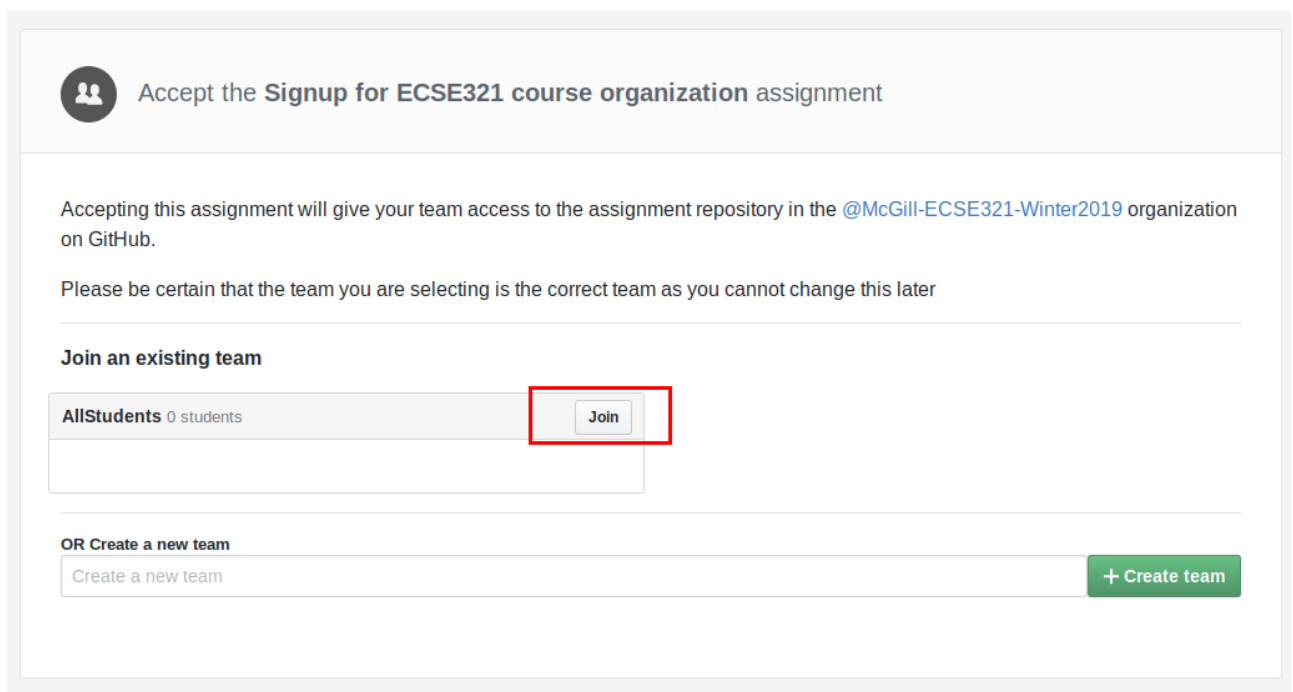
**Join the classroom roster**

Your teacher has configured this classroom to pair GitHub accounts with identifiers. Please select yourself from the list below. You can also skip this step for now.

McGillID
<a href="#">260238916</a>
<a href="#">260485177</a>
<a href="#">260493293</a>
<a href="#">260551876</a>
<a href="#">260609638</a>
<a href="#">260632353</a>
<a href="#">260632542</a>

**Skip**

4. Join team *AllStudents*



**Accept the Signup for ECSE321 course organization assignment**

Accepting this assignment will give your team access to the assignment repository in the [@McGill-ECSE321-Winter2019](#) organization on GitHub.

Please be certain that the team you are selecting is the correct team as you cannot change this later

**Join an existing team**

<b>AllStudents</b> 0 students	<b>Join</b>
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**OR Create a new team**

Create a new team **+ Create team**

## 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 button 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.

### Create a new repository

A repository contains all the files for your project, including the revision history.


---


Owner	Repository name
 <b>ecse321testuser</b> ▼	/ <b>ecse321-tutorial-1</b> ✓

Great repository names are short and memorable. Need inspiration? How about **furry-octo-journey**.

**Description** (optional)

---


☒  **Public**  
Anyone can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

---

☒ **Initialize this repository with a README**  
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

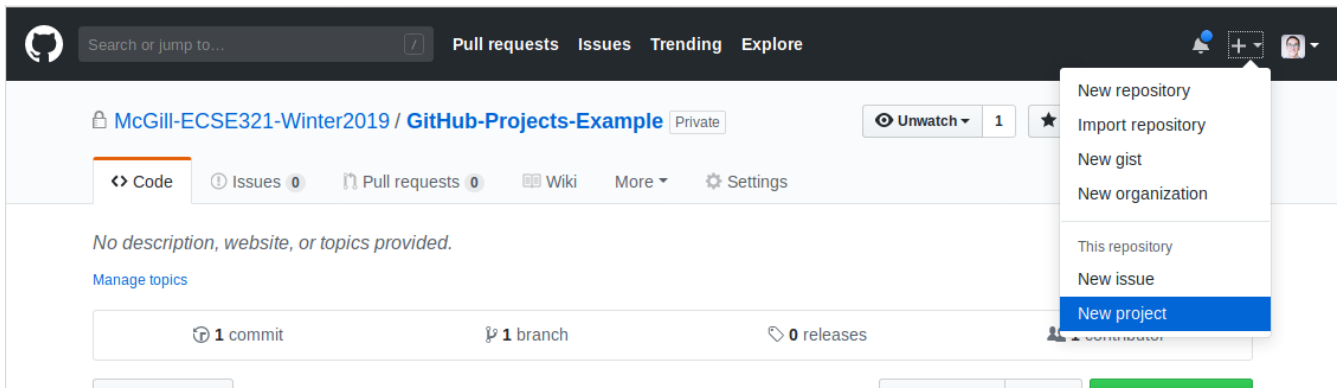
Add .gitignore: **None** ▼

Add a license: **None** ▼ 

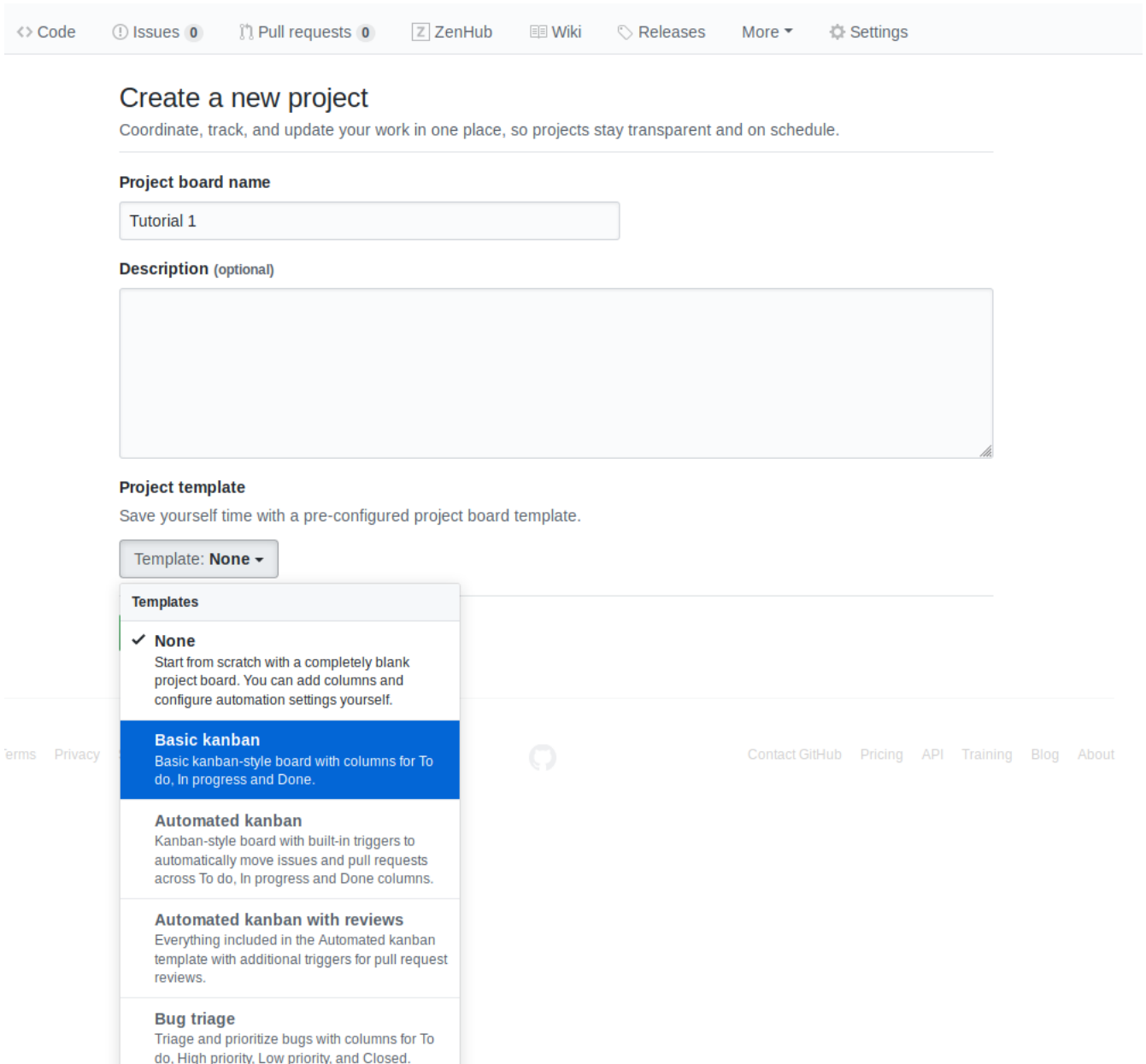
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**Create repository**

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>