

## CST250 Project 0: Bitbucket Tutorial

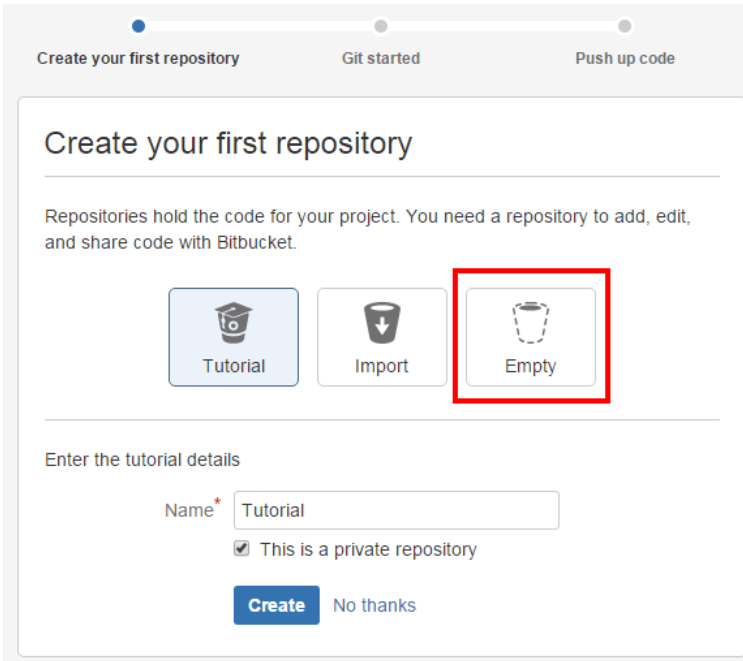
### Learning Objectives:

- Become familiar with some of Git revision control's features so that you can:
  - Clone a repository to your local machine
  - Make commits and push them to a remote repository
  - Create and merge branches

### The Task:

This project is required, meaning you will not be allowed to start working on any team projects until you earn the full 5 points. There isn't a limit on the number of opportunities you will have to complete this project (within reason) because the goal is to make sure you are somewhat familiar with Git. If you already have a Bitbucket account tied to your **ASU email** you can skip step 1. If you already have a Git client configured for the aforementioned Bitbucket account you can skip steps 1 and 2.

- 1) Create a Bitbucket account using your **ASU email** if you don't already have one (.edu emails accounts are allowed unlimited private and public repositories). Detailed information on how to do this can be found [here](#) (read the **note** below first).
  - a) **NOTE:** after completing the signup process you will be given the option to create your first repository as shown below. Select an **Empty** repository and name it **CST250-Project0**. You can use this repository when you get to step 3.



Create your first repository      Git started      Push up code

### Create your first repository

Repositories hold the code for your project. You need a repository to add, edit, and share code with Bitbucket.

Tutorial

Import

Empty

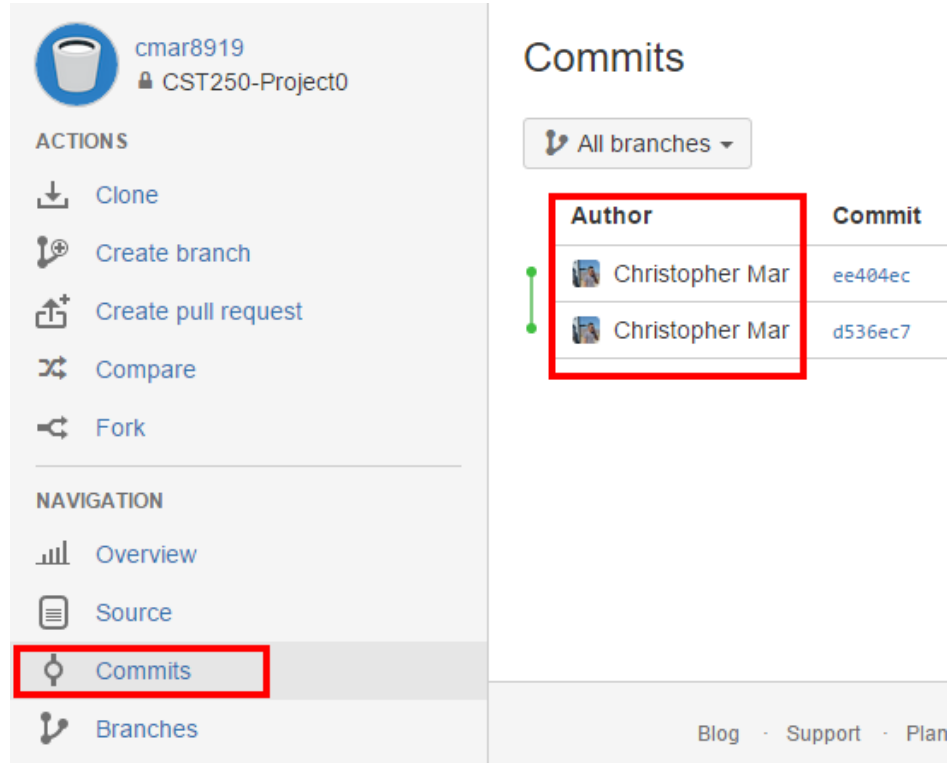
Enter the tutorial details

Name\*

☒ This is a private repository

[Create](#) [No thanks](#)

- 2) Install a Git client on your computer. It doesn't matter to me what Git client you wish to use (either command line or GUI) as long as you are comfortable using it. Information on setting up a command line Git client on Windows, Mac, or Linux can be found [here](#). If you would prefer a GUI based Git client and aren't sure what to use then I would recommend trying [SourceTree](#) (it is a version for Windows and Mac), but be aware that after installing SourceTree it will present you with a tutorial. Please be aware that you should disregard this tutorial and do the one linked in step 3 instead.
  - a) Regardless of which Git client you are using, be sure that *user.name* is set to the user name of your Bitbucket account, not your full name (i.e. not your first and last name). This should ensure that your commits show up as being authored by your account.
  - b) Also be sure to use the same *ASU email* you set your Bitbucket account up with.
- 3) Follow the instructions in Bitbucket's tutorial located [here](#) until you see the words "You are done!", but I want you to do that aren't in the tutorial:
  - a) Name the repository you create *CST250-Project0*.
  - b) After making pushes, check that Bitbucket shows that commits match what you pushed including having your name listed as the **Author** as shown below.



The screenshot shows the Bitbucket interface for a repository named **CST250-Project0** owned by **cmar8919**. On the left sidebar, the **Commits** tab is highlighted with a red box. The main content area displays a list of commits under the heading **Commits**. A dropdown menu shows **All branches**. The commit list has two columns: **Author** and **Commit**. Two commits are listed, both authored by **Christopher Mar**, with commit hashes **ee404ec** and **d536ec7**. The **Author** column is highlighted with a red box. At the bottom right, there are links for **Blog**, **Support**, and **Plan**.

Author	Commit
Christopher Mar	ee404ec
Christopher Mar	d536ec7

4) Once you have completed the tutorial, make the following changes to your repository:

- a) Add a README [markdown](#) file (a file in top level directory of the repository named *README.md*) to your repository. This can be done from the Bitbucket repository *Overview* page by clicking here:

Overview

Last updated	just now	1	Branch
Language	—	0	Forks
Access level	Admin		0

**THERE ISN'T A README YET**  
Create one and tell people where to start and how to contribute.

Create a README

- b) Add your full name and ASU ID and push this to Bitbucket so that your repository *Overview* page look like this:

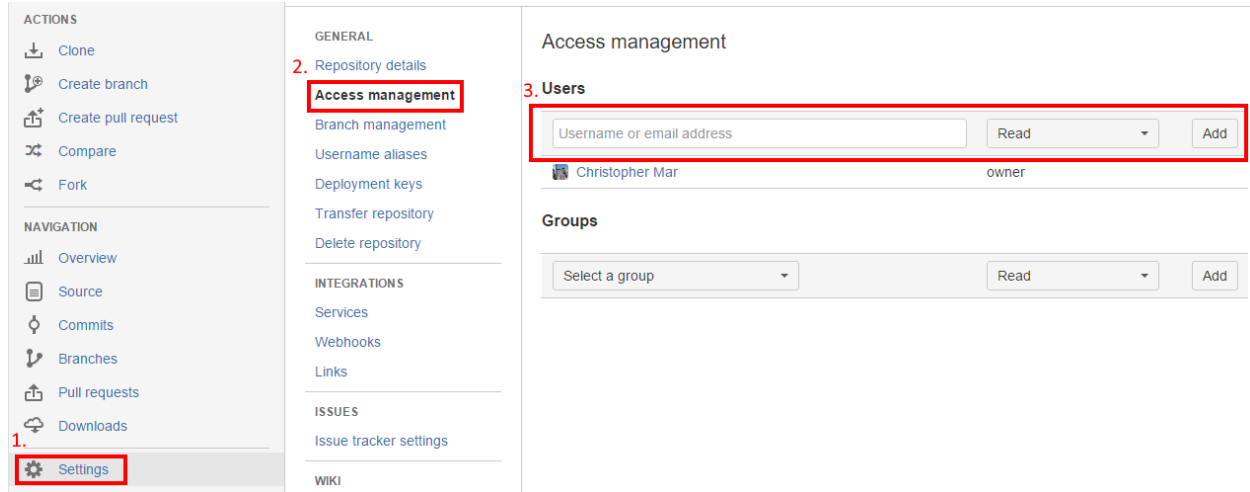
Overview

Last updated	31 seconds ago	1	Branch	0	Tags
Language	—	0	Forks	1	Watcher
Access level	Admin				

Edit README

Name: Christopher Mar  
ASU ID: 0123456789

- c) Share your repository with me by granting me *write* permission (we will be using Bitbucket for team projects so I want to make sure everyone knows how to grant write permission with their teammates). My Bitbucket username is *cmr8919*. Granting access is done in a repository by clicking *Settings* and then *Access Management* as shown below.



- d) On Blackboard, Make a text submission that contains a clickable hyperlink to your repository's overview. Text submissions are made by clicking the button shown in the screenshot below.

#### ASSIGNMENT INFORMATION

Points Possible  
**5**

Make a *text submission* here that contains a clickable hyperlink to your repository's overview.  
[Project 0 Instructions.pdf](#)

#### ASSIGNMENT SUBMISSION

Text Submission

Write Submission

Attach File

Browse My Computer

Browse Content Collection

**Deliverables:**

Share your repository with me and submit a link to it on Blackboard (5 points).