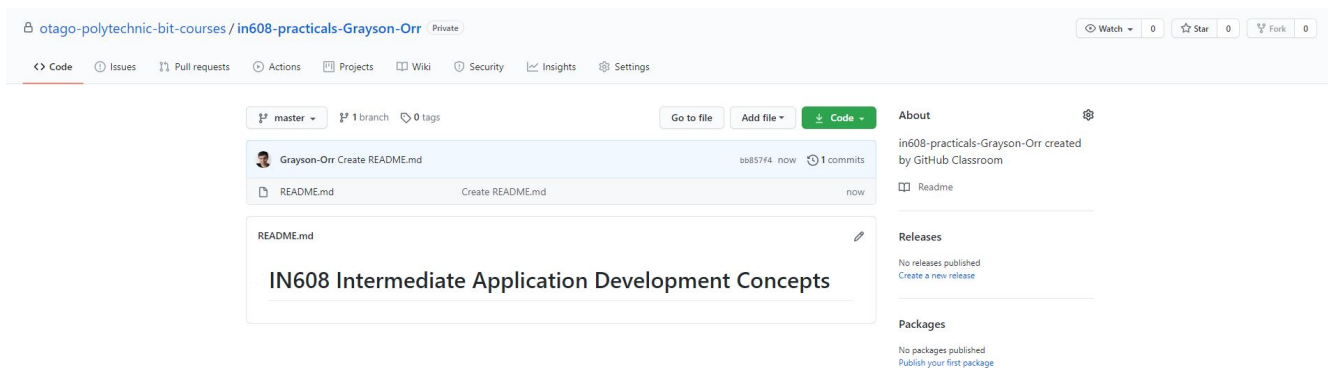




College of Engineering, Construction and Living Sciences  
Bachelor of Information Technology  
IN608: Intermediate Application Development Concepts  
Level 6, Credits 15  
**GitHub Practical Submission**

By default, GitHub Classroom creates an empty repository. We want the repository to have a README file to avoid potential issues, i.e., no master branch. Click on the **Add file** button then the **Create new file** button. Name your file README.md (Markdown) or README.rst (reStructuredText), add some contents if you wish then click on the green **Commit new file** button.

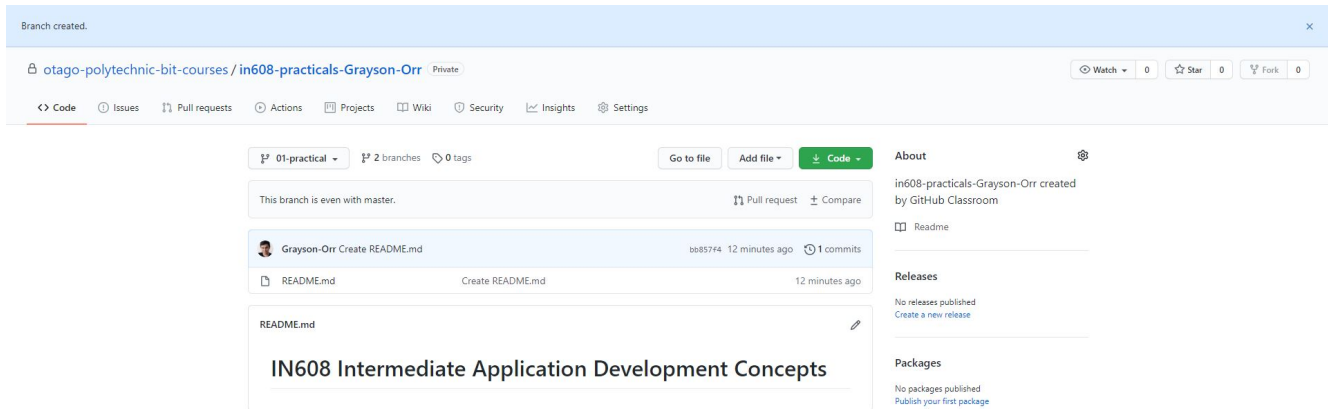
Open Git Bash in a location on your computer. Clone your repository using the following command: **git clone <repository URL>**. Once the repository has been cloned, **cd** into your repository.



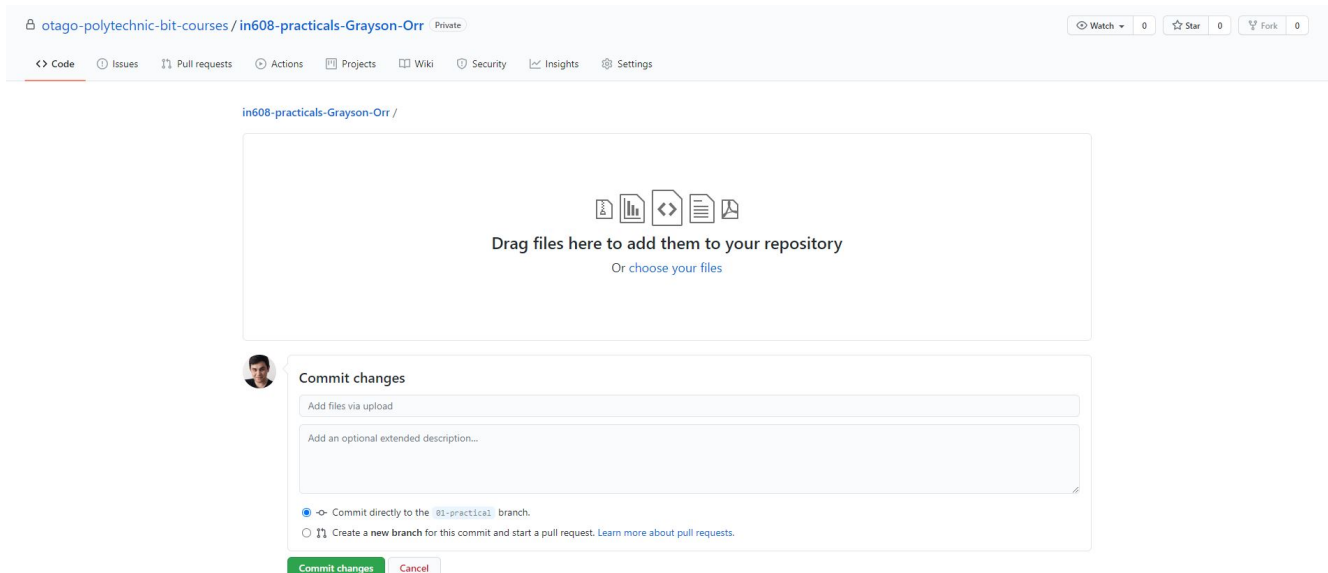
If you are not familiar with Git Bash, you can create a branch on GitHub. Click on the **master** button, type in the name of the branch then press the **Enter/Return** key. Make sure you create the branch from the master branch.

In Git Bash, you can run the following command to create a branch: **git checkout -b <name of branch>**. If you use GitHub to create a branch, you must run the following command in Git Bash: **git pull**. This command will fetch & download the content from your remote repository & update your local repository to match the content in your remote repository.

The message **Branch created.** should appear at the top.

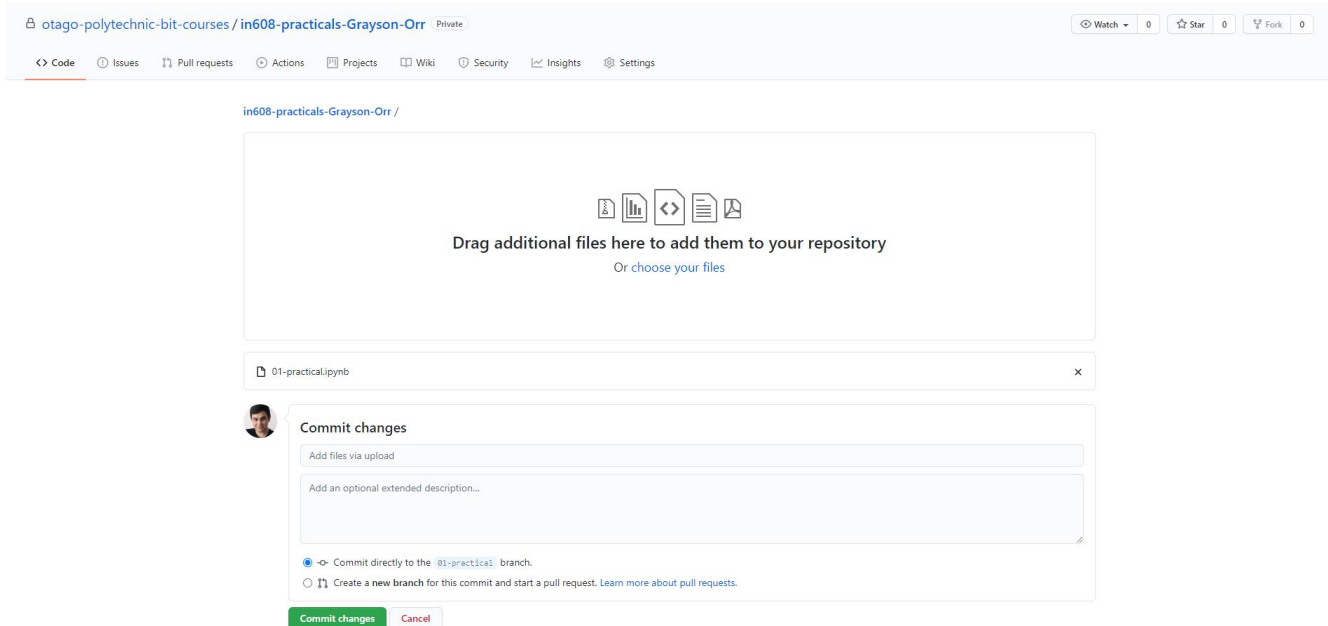


Again, if you are not familiar with Git Bash, you can create & upload files on GitHub. Click on the **Add files** button then the **Upload files** button. Choose the practical **.ipynb** file you wish to upload, i.e., **01-practical.ipynb**. Change the commit message appropriately, i.e., **Add 01-practical.ipynb** then click the **Commit changes** button.

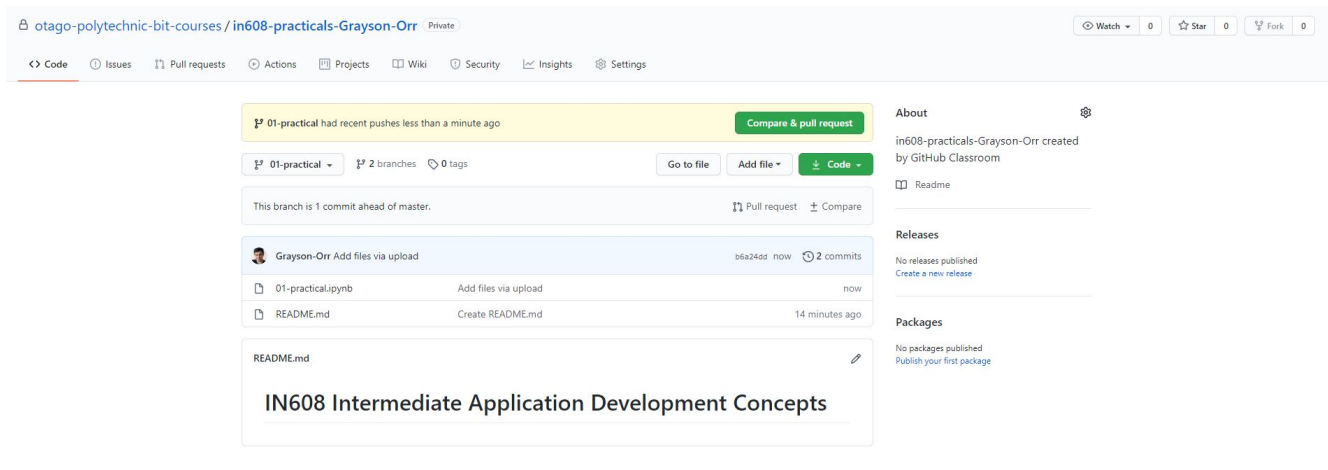


You will receive a warning from Git if you attempt to create or upload a file which is larger than 50 MB. The changes will still be pushed, but you should consider removing the commit to avoid performance issues. In addition, GitHub blocks pushes that exceed 100 MB.

If you use GitHub, remember to run the following command: **git pull**



Click on the green **Compare & pull request** button.



On the right-side of the screen, you will see **Reviewers**. Add **tclark** & **grayson-orr** as reviewers (currently, there are no reviewers). Tom & Grayson will review your code & give you some valuable feedback. Click the green **Create pull request** button.

The screenshot shows the 'Open a pull request' page. At the top, the repository name is 'otago-polytechnic-bit-courses/in608-practicals-Grayson-Orr'. Below the navigation bar, the 'base' is set to 'master' and the 'compare' branch is '01-practical'. A green checkmark indicates 'Able to merge'. The main area has a 'Write' tab with a text area for a comment and a 'Preview' tab. On the right, there are sections for 'Reviewers' (No reviews), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), 'Linked issues' (Use Closing keywords in the description to automatically close issues), and 'Helpful resources' (GitHub Community Guidelines). At the bottom, it shows '1 commit', '1 file changed', '0 commit comments', and '1 contributor'. A green 'Create pull request' button is at the bottom right.

Later in the course, you may encounter merge conflicts. They are quite fun to fix...if you get stuck, please message Tom or Grayson.

**DO NOT MERGE YOUR OWN PULL REQUEST...**this is Tom & Grayson's job.

You may be asked to reflect on your feedback & if necessary, fix your code. You will receive an email when your code has been reviewed &/or approved.

The screenshot shows the '01-Practical #1' pull request page. At the top, it says 'Open' and 'Grayson-Orr wants to merge 1 commit into master from 01-practical'. Below this, there's a 'Conversation' section with a comment from 'Grayson-Orr' that says 'No description provided.' and a 'Verified' badge. There's also a 'Continuous integration' section with a green checkmark indicating 'This branch has no conflicts with the base branch' and a 'Merge pull request' button. At the bottom, there's a 'Write' tab with a text area for a comment and a 'Preview' tab. On the right, there are sections for 'Reviewers' (No reviews), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), 'Linked issues' (Successfully merging this pull request may close these issues), and 'Notifications' (Customize, Unsubscribe).