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. Firstly, you need to create a **README** & **.gitignore** file. GitHub provides an option for creating new files.

Create a README

Click on the **Add file** button then the **Create new file** button. Name your file **README.md** (Markdown) or **README.rst** (reStructuredText) then click on the green **Commit new file** button. You should see a new file in your practicals repository called **README.md/rst** & the **master** branch.

Create a .gitignore

Similar to before, click on the **Add file** button then the **Create new file** button. Name your file **.gitignore**. A **.gitignore** template dropdown will appear on the right-hand side of the screen. Select the Python **.gitignore** template. You will add to this **.gitignore** later in the course when we look at React. Click on the green **Commit new file** button. You should see a new file in your practicals repository called **.gitignore**.

Resources:

- https://git-scm.com/docs/gitignore

- https://github.com/github/gitignore

Clone practicals repository

Open up **Git Bash** on your computer. Clone your practicals repository to a location on your computer using the command: **git clone <repository URL>**

Resource: https://git-scm.com/docs/git-clone

Create local branch

cd into your practicals repository & create a branch using the command: **git branch <name of the branch>**. Checkout from the **master** branch to the new branch using the command: **git checkout <name of the**

branch>. Alternatively, you can create & checkout a branch using the command: **git checkout -b <name of the branch>**.

For each practical, create a new branch, i.e., branch name **01-practical** for **01-practical.ipynb**. When you create a new branch, make sure you are creating it from the **master** branch.

Resources:

- https://git-scm.com/docs/git-branch

- https://git-scm.com/docs/git-checkout

Push local branch to remote repository

Push your local branch, i.e., **01-practical** to your remote repository using the command: **git push -u origin <name of branch>**. You will continue working on your practical code until you are ready to submit.

Create pull request

Once you have completed a practical, create a pull request. Go to your practicals repository on **GitHub**. Click on the **Pull requests** tab then click on the green **New pull request** button. You will see two dropdowns (**base** & **compare**). Click the compare dropdown & select the **practicals** branch you want to compare with the **master** branch then click the green **Create pull request** button.

On the right-side of the screen, you will see **Reviewers**. Click on the **Reviewers** section. Add **tclark** & **grayson-orr** as reviewers then click the green **Create pull request** button.

Tom & **Grayson** will receive an email. Your practical code will be reviewed & you will receive feedback. You may be asked to reflect on your feedback & fix your practical code. You will receive an email when your practical code has been reviewed &/or approved.