



CodeLab I (CCO4000-20)

Cloning Assignment Repository to Local Machine - Xcode

Creative Computing

The School of Creative Industries

Bath Spa University

1. First make you need to generate your assignment repository. To do so locate and click the GitHub classroom link for the assignment, which can be found in the assessment section on Aura.

Assessment 2 - Utility App

Your task is to create a Vending Machine program using the C++ programming language. The program should demonstrate your knowledge of programming and make use of the techniques introduced over the course of the module

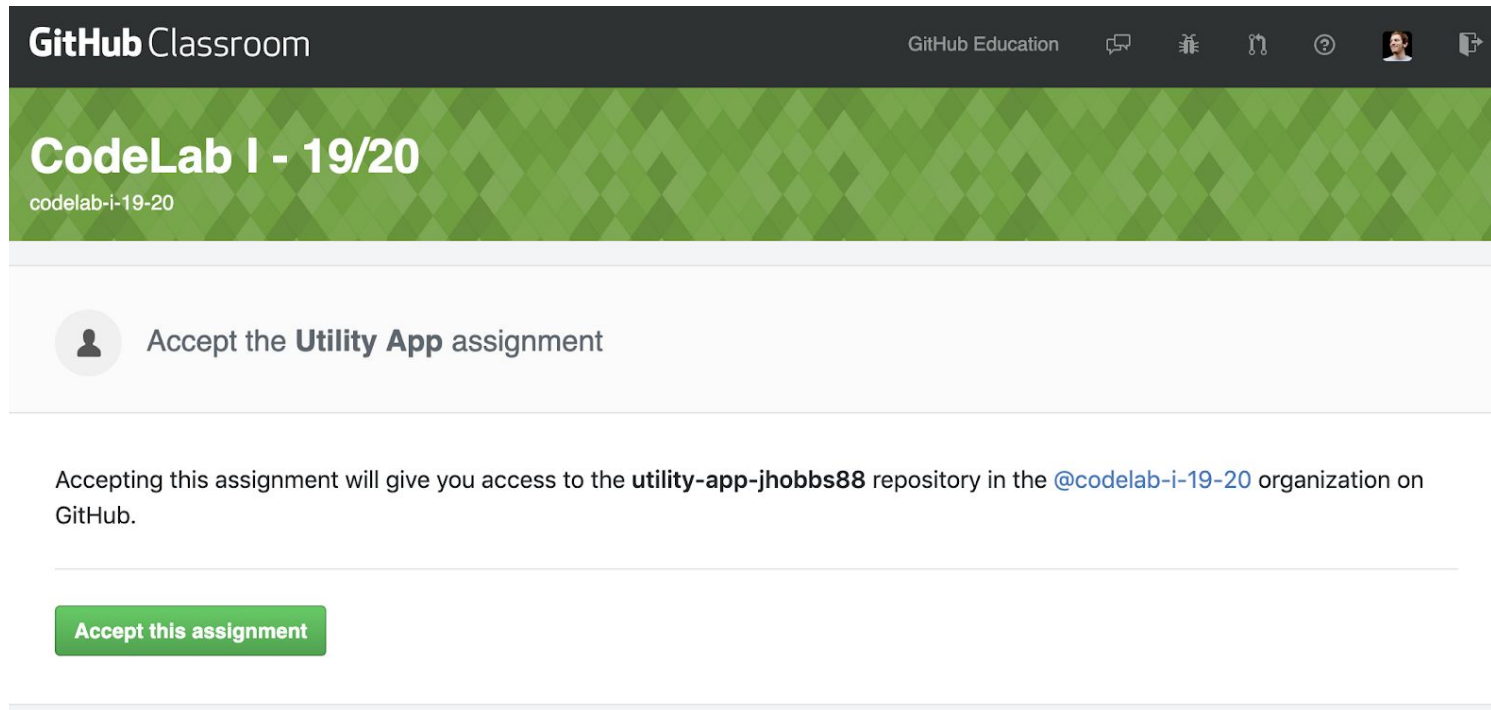
Deadline: Friday 24th January 2020 - 23:59pm

Submission: [Click here to submit via Turnitin on Minerva](#)

Github Classroom Link: [Click here to generate your assignment repository](#). The code for your assignment must be submitted to your repository before the deadline. For guidance on how to download the repository, submit your code and other useful GitHub hints review the guides provided in the *Assessment Resources* section.

 [Utility App - Brief.doc](#)

2. Once you have clicked this link you will be taken to a page asking you to accept the assignment (you may be asked to login). This page will look similar to the below. Click *Accept this assignment*.



3. GitHub classroom will now generate your own unique repository for the assignment. Please wait while it completes the import process

GitHub Classroom

GitHub Education

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codelab-i-19-20

Your GitHub repository was created.

Your assignment repository is being setup. This might take a while.

Creating repository

Done


Importing starter code

Done

4. Once imported you will be presented with a success message like the one below. Included here is a URL for where your repository is hosted on GitHub (the url that follows “Your assignment has been created here:”). Make a note of this URL as it is useful to check your code has submitted properly later, you will also need to include it in your development document.

GitHub ClassroomGitHub Education

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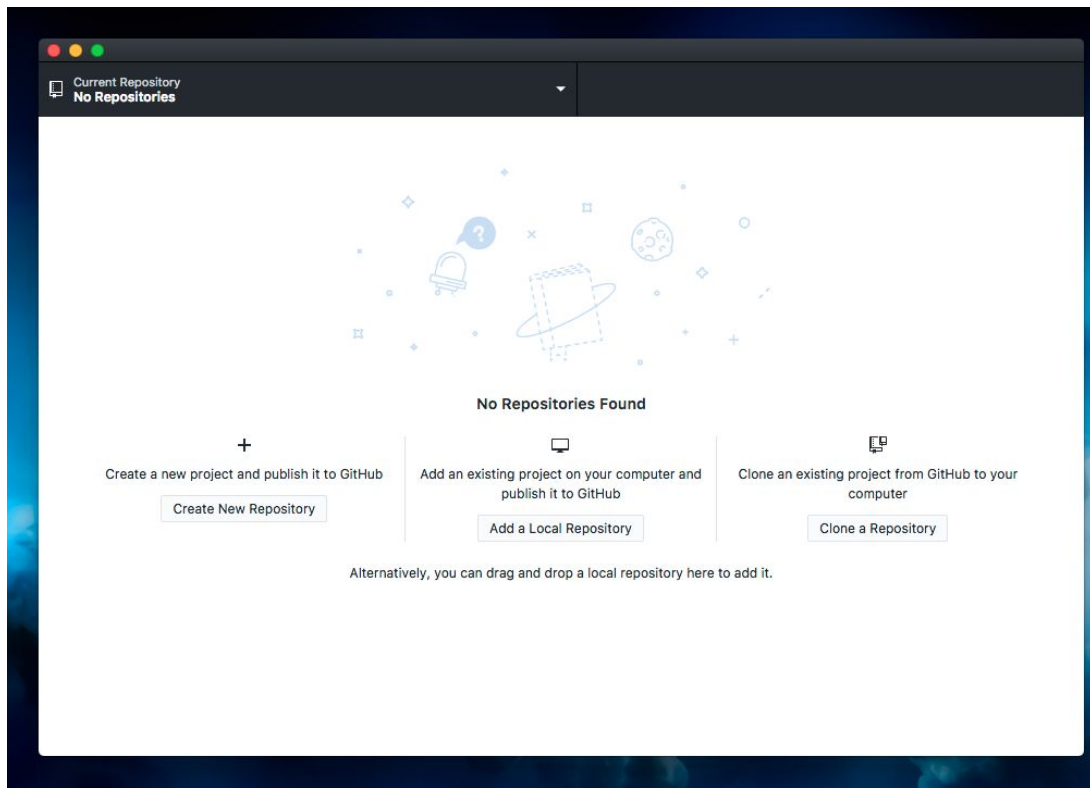
 Accepted the **Utility App** assignment

You are ready to go!

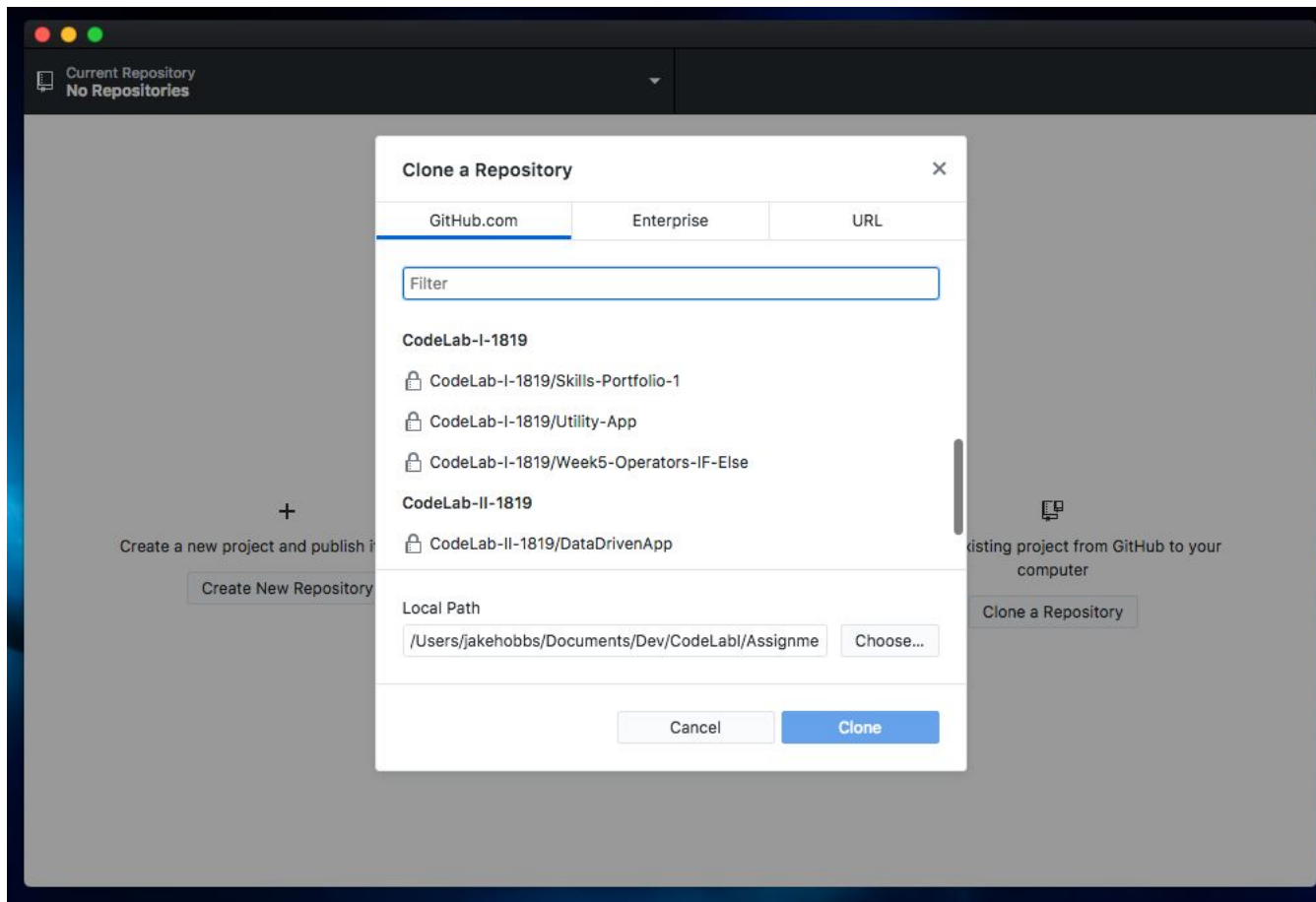
You may receive an invitation to join [@codelab-i-19-20](#) via email invitation on your behalf. No further action is necessary.

Your assignment has been created here: <https://github.com/codelab-i-19-20/utility-app-jhobbs88>

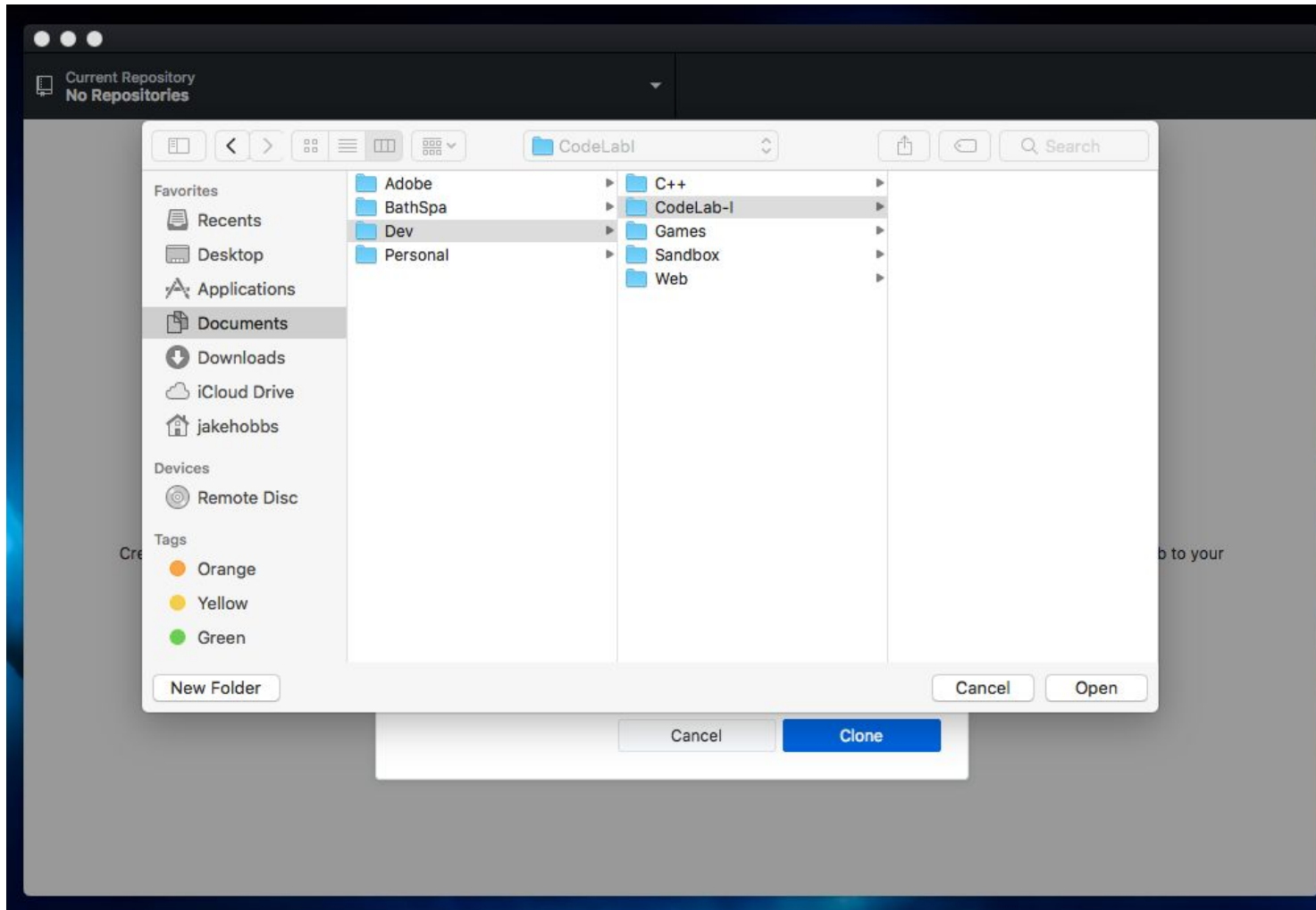
5. Use Github desktop clone your assignment repository to your computer. If you have no existing repositories you can do this by clicking the “*Clone a Repository*” button on the opening screen. Else simply go “*File → Clone Repository*”



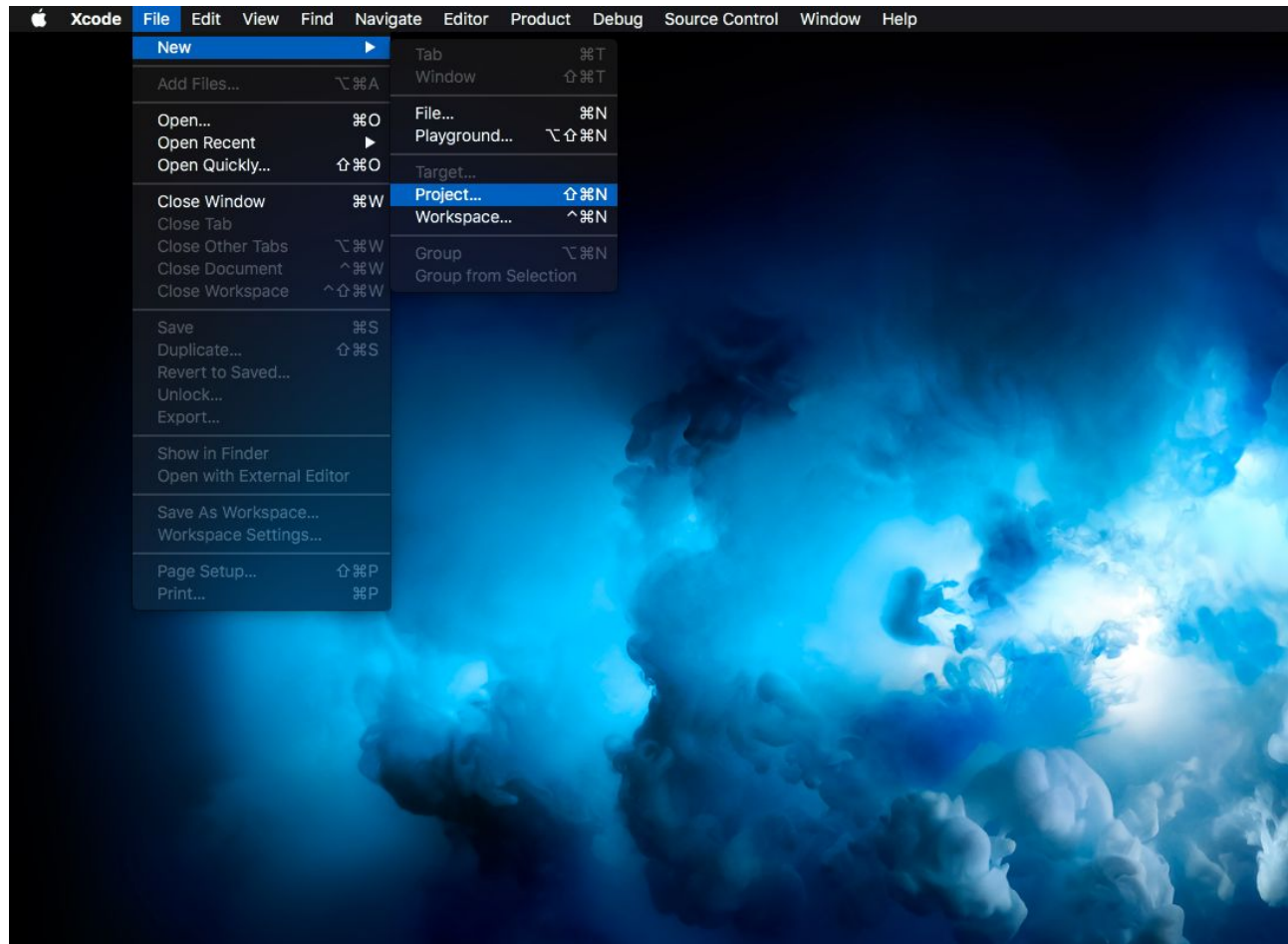
6. You will be presented with a screen similar to the one below. You should look for and select your Utility App repository from those listed. This will be named something like: *CodeLab-I-1920/Utility-App-yourgithubusername*



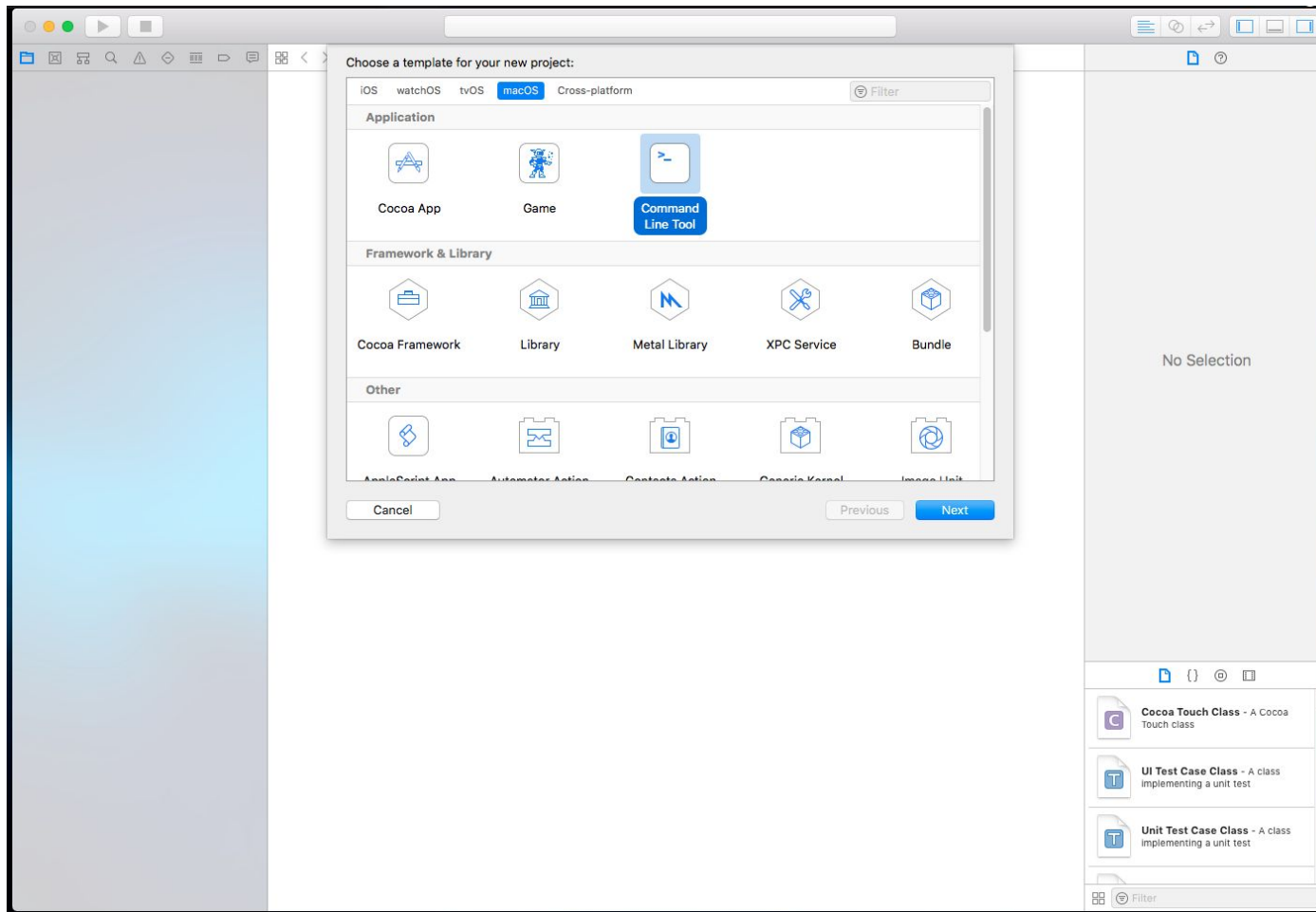
7. Click “Choose...” next to local path and browse to sensible location on your machine to save the repository, eg: *Documents* → *Dev* → *CodeLab-I*. Once you have selected a folder on your machine click “Open” to clone the repository.



8. In Xcode go to File → New → Project

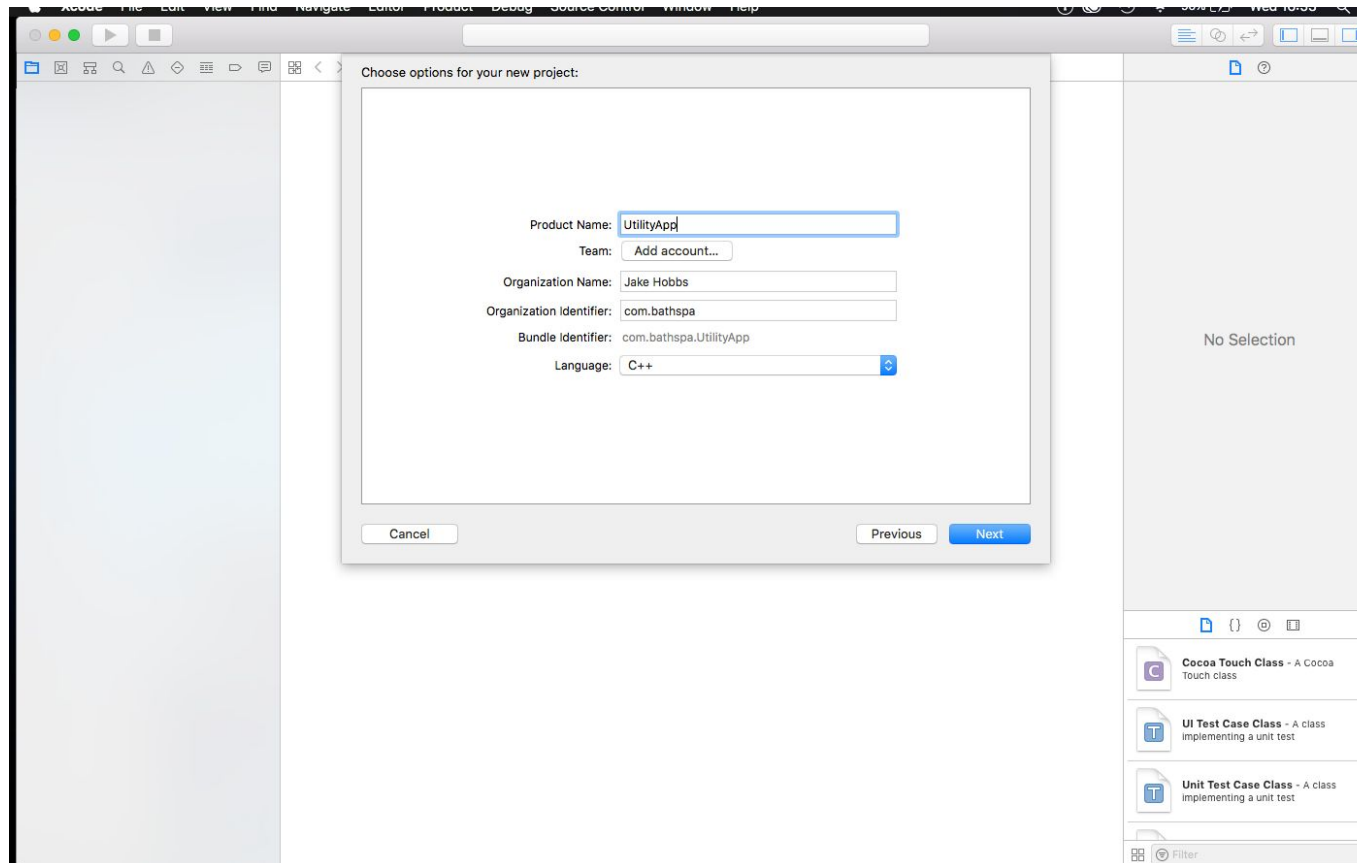


9. Ensure top tab is on “macOS”, select “*Command Line Tool*” & click “*Next*”

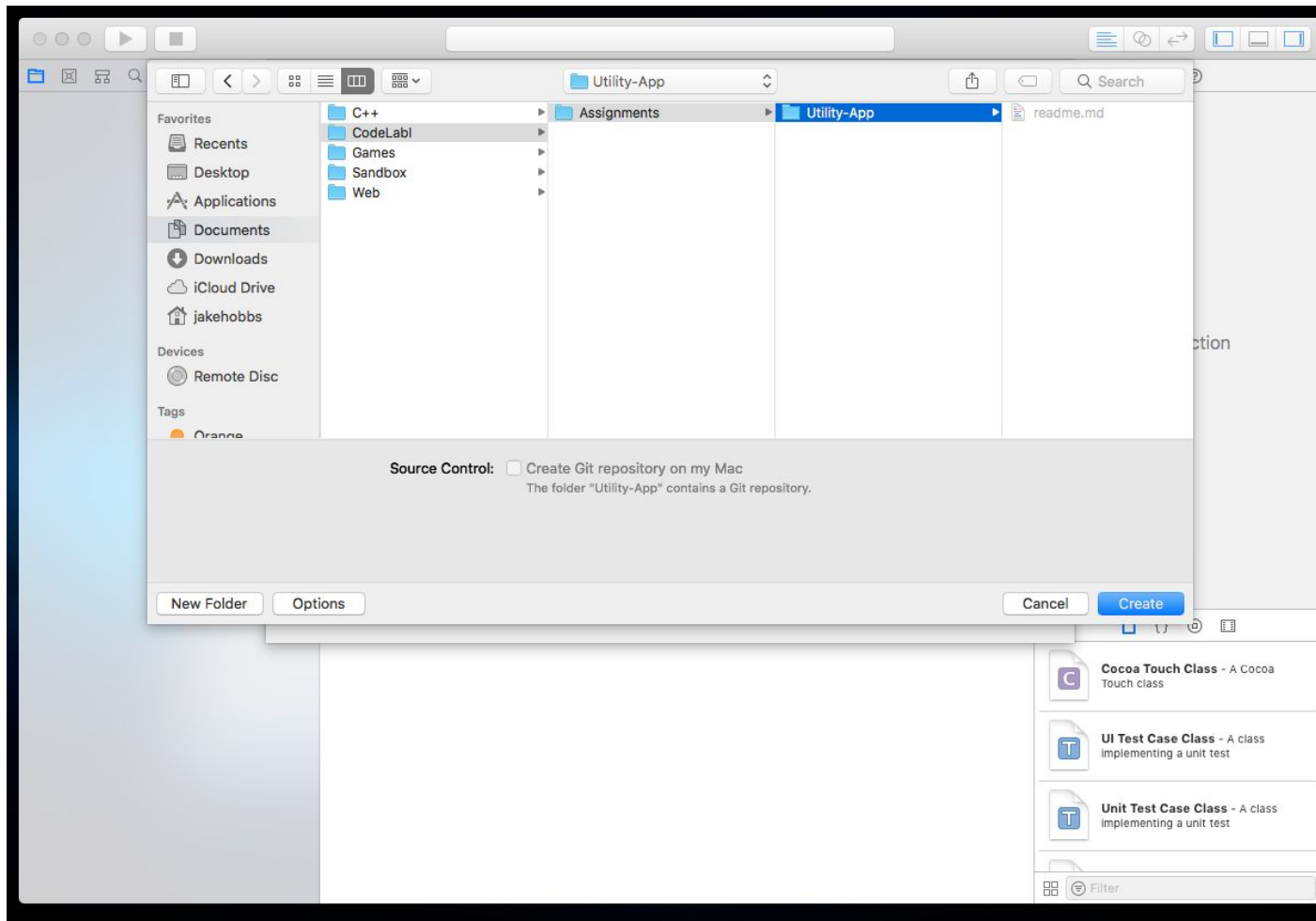


10. Set the options for your project:

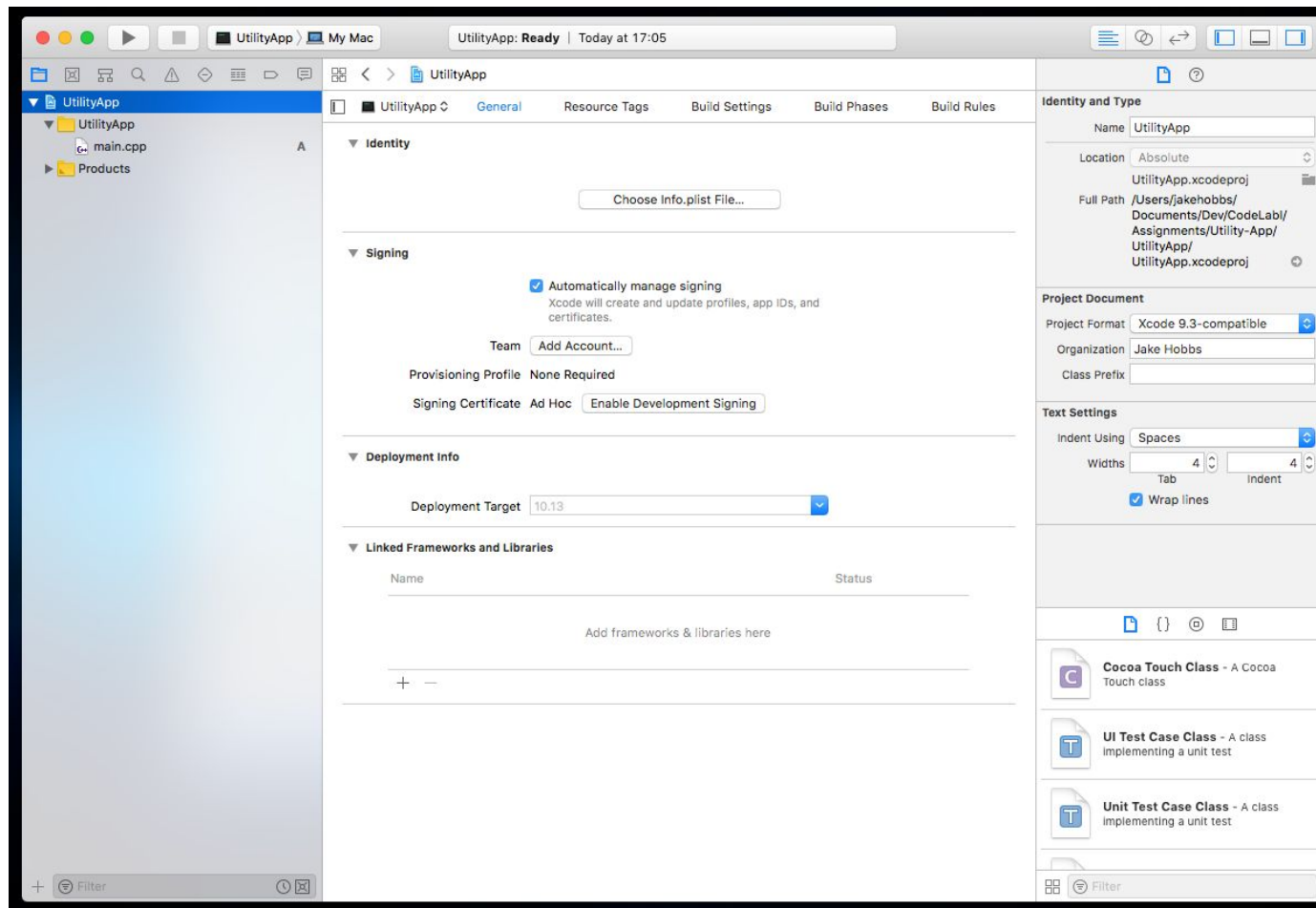
- a. Give the product a name (e.g. "UtilityApp")
- b. Set organisation identifiers (e.g. com.yourname)
- c. Set language as C++
- d. Click Next



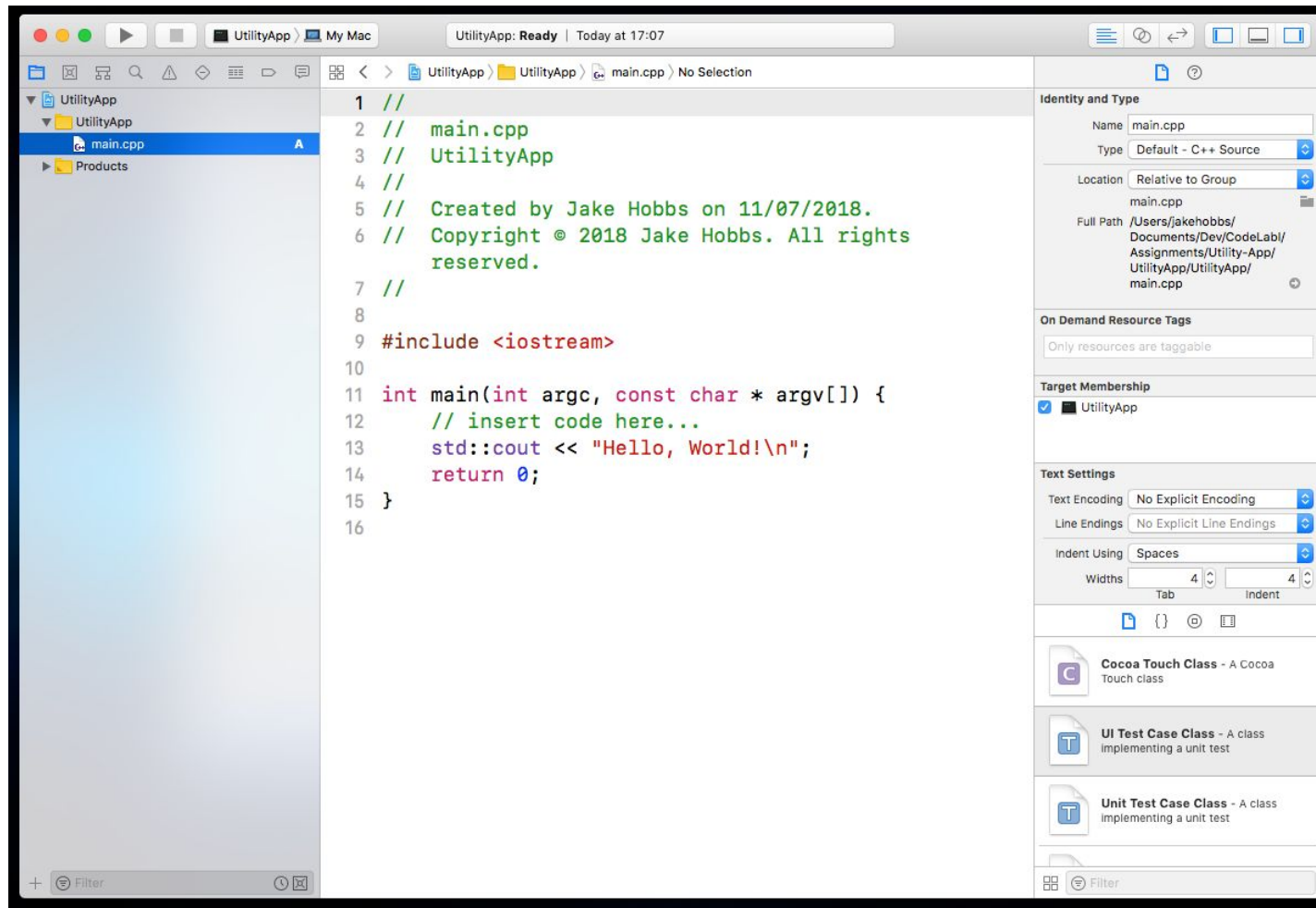
11. Navigate to the location you cloned the repository to in step 3 and click “Create”



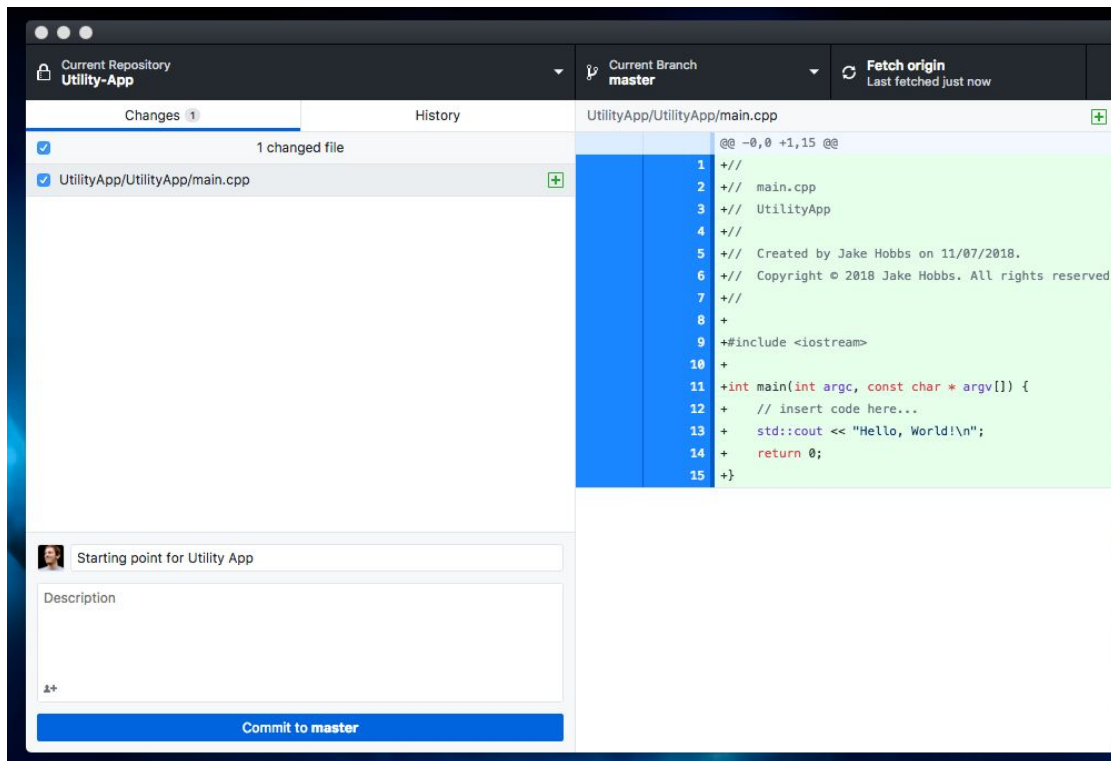
12. You now have an Xcode project to begin coding your solution.



13. Click on “*main.cpp*” in the left hand toolbar to get started.



14. Github Desktop will keep track of your changes in your main.cpp file and any other files you add to your project. You should regularly make commits to ensure you can fall back to previous versions if things go wrong. You should also push your commits back up to your Github repository often, this will make sure you have a backup of your work.



15. When you are happy with your final solution make sure you make one final commit and push to your Github repository before the deadline. To check your code has submitted correctly go to your repository on GitHub, the URL for this will be:
<https://github.com/codelab-i-19-20/utility-app-YOURGITHUBUSERNAME>

For more information and guidance on using Github while developing your assignment code please see the videos provided in the assessment section on Aura.

Other Resources

Github Desktop Download Link: <https://desktop.github.com/>

Official Github Desktop User Guides: <https://help.github.com/desktop/guides/>

Github Desktop Quick Intro: <https://www.youtube.com/watch?v=77W2JSL7-r8>