



CodeLab II (CCO5000-20)

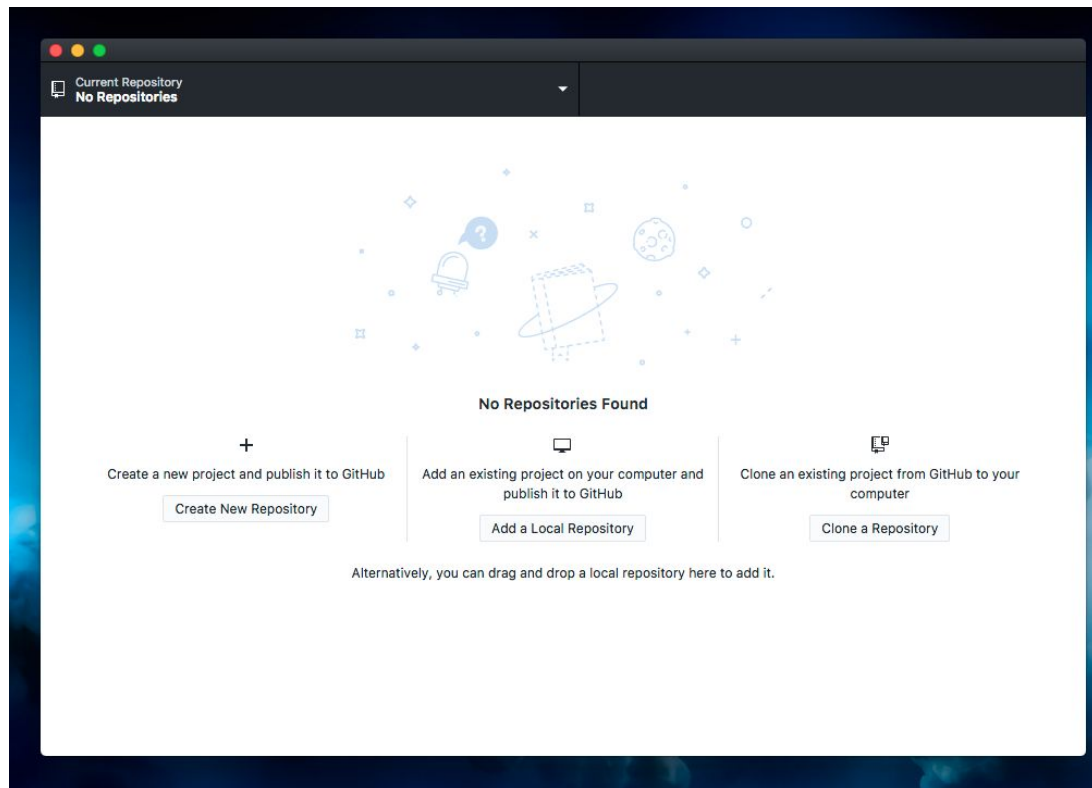
Generating Data Driven App Project (Option 2) - Xcode

Creative Computing

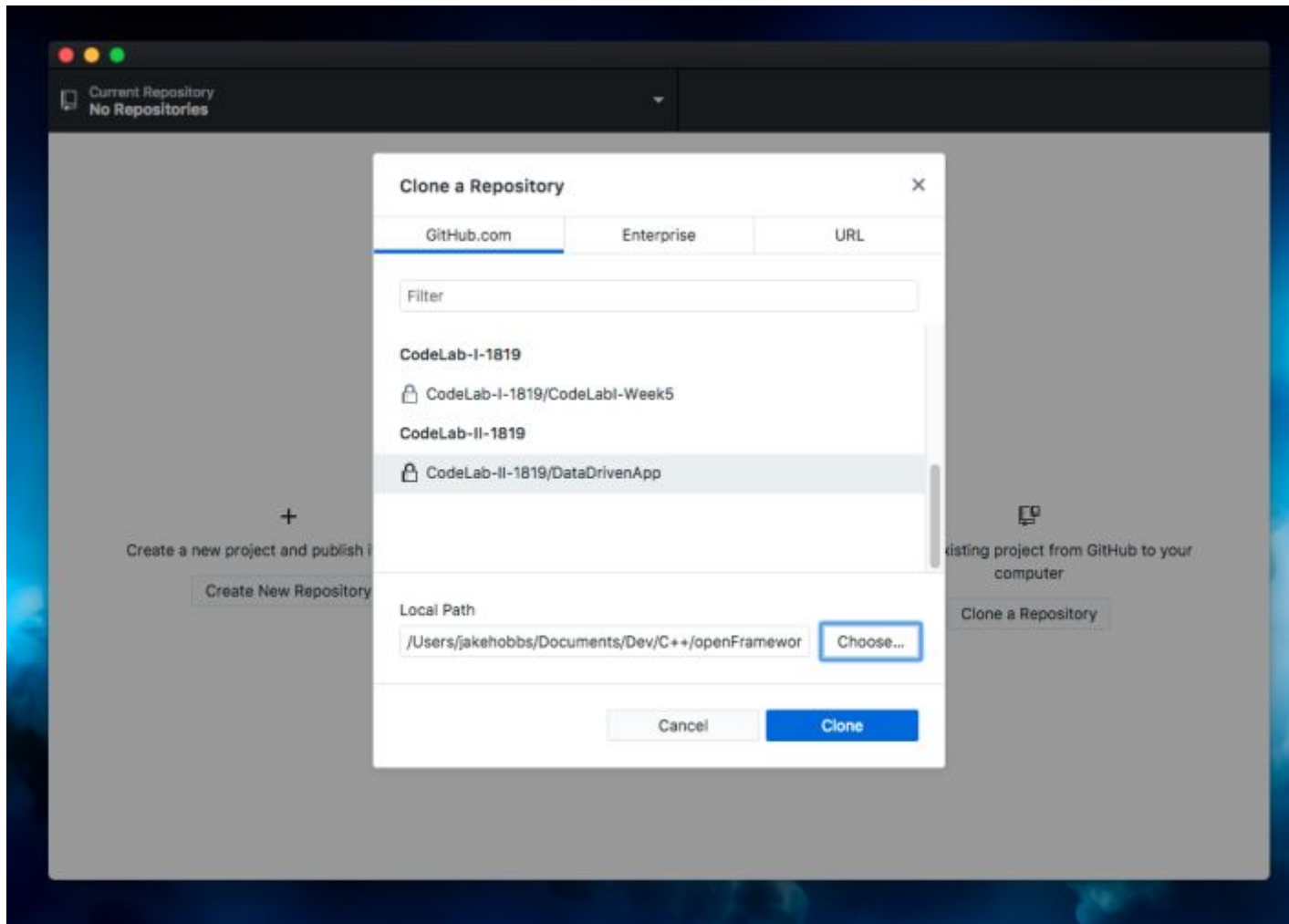
Writing, Film & Digital Creativity

College of Liberal Arts, Bath Spa University

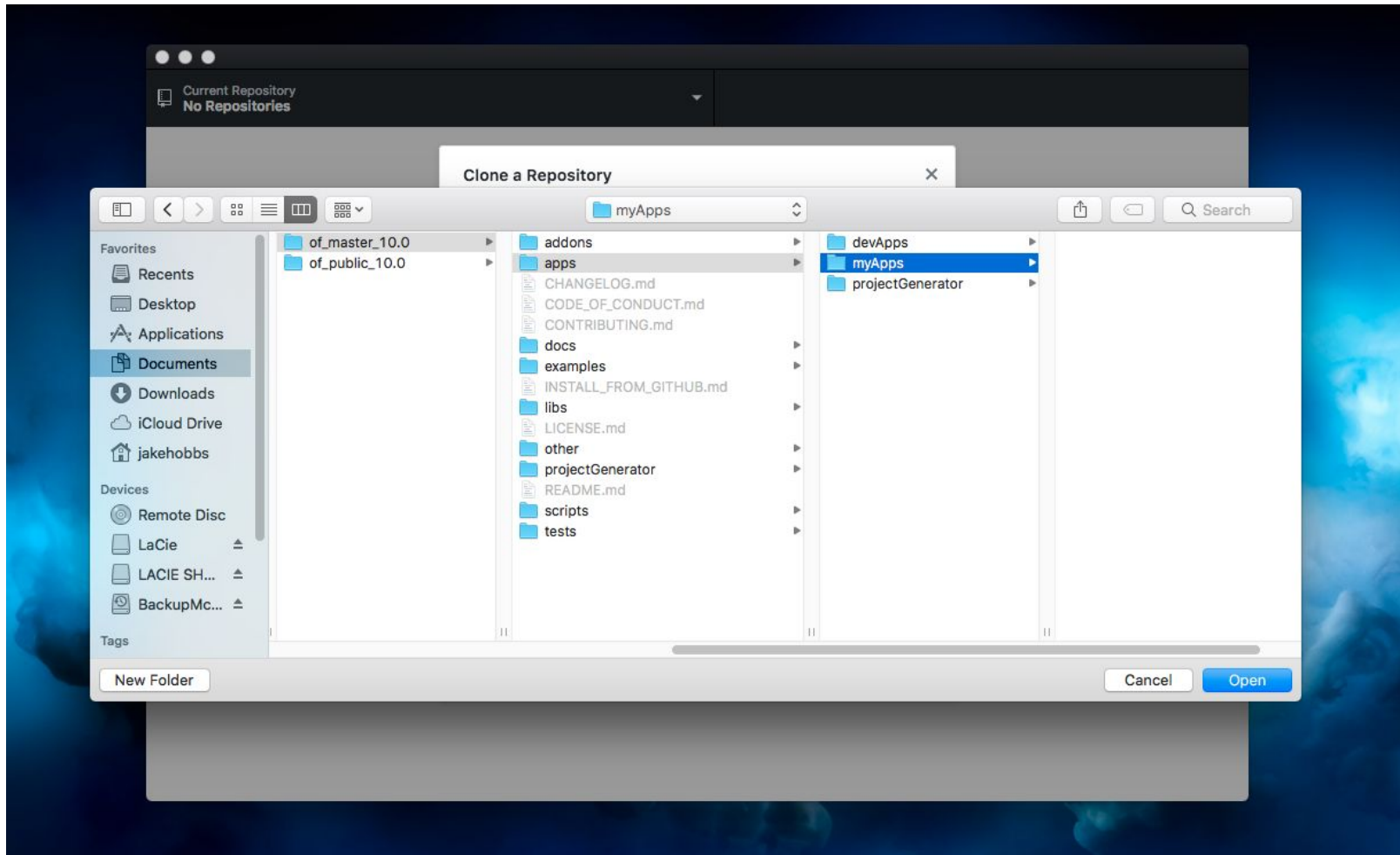
1. Before following this guide ensure you have setup a master version of openFrameworks for the Data Driven project. See the *“Setting up openFrameworks for Data Driven App Project - Xcode”* guide for more information.
2. Use Github desktop clone your assignment repository to your computer. If you have no existing repositories you can do this by clicking the *“Clone a Repository”* button on the opening screen. Else simply go *“File → Clone Repository”*.



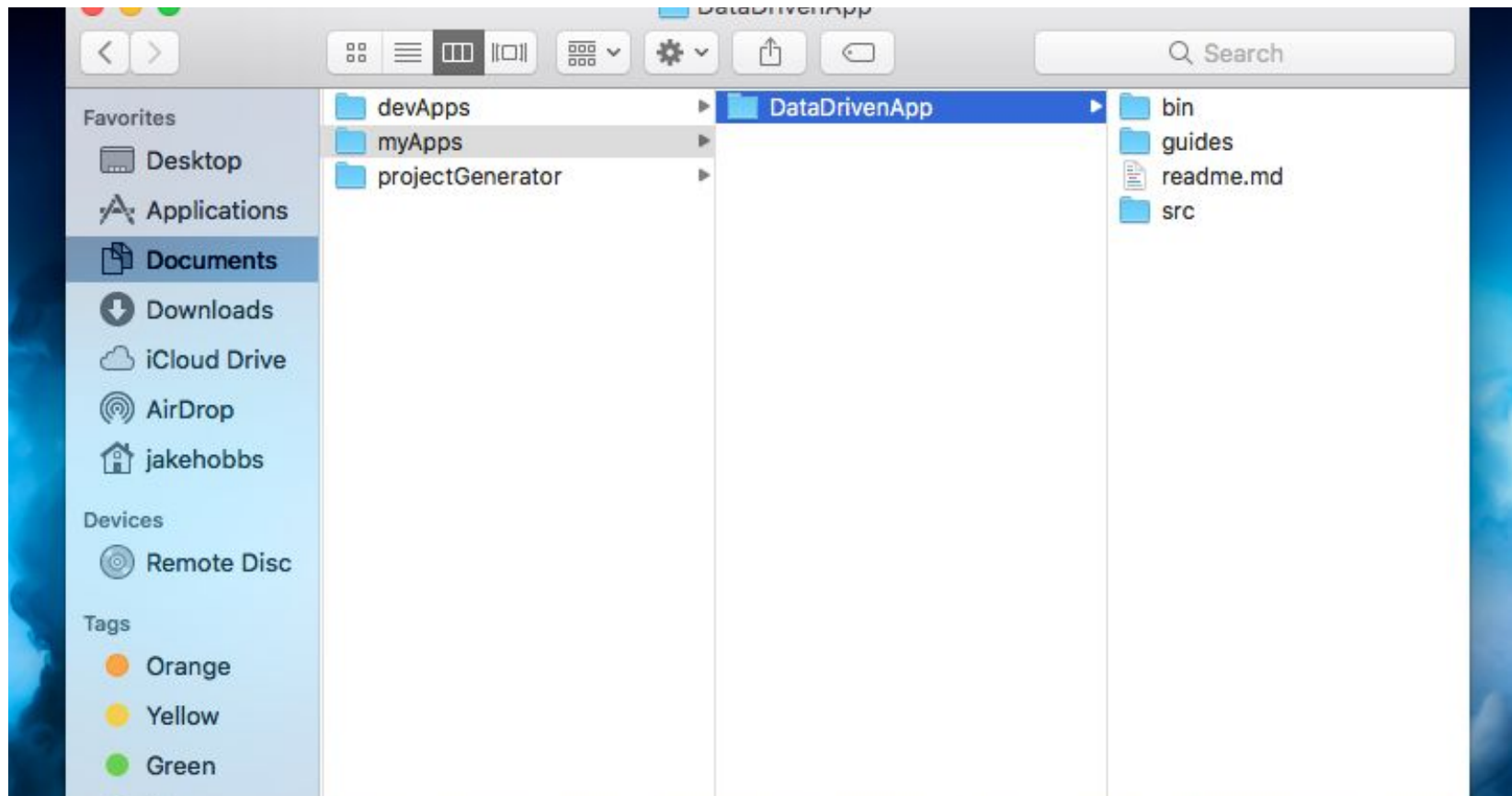
3. You will be presented with a screen similar to the one below. You should look for and select your Data Driven App repository from those listed. This will be named something like: *CodeLab-II-1819/DataDrivenApp-yourgithubusername*



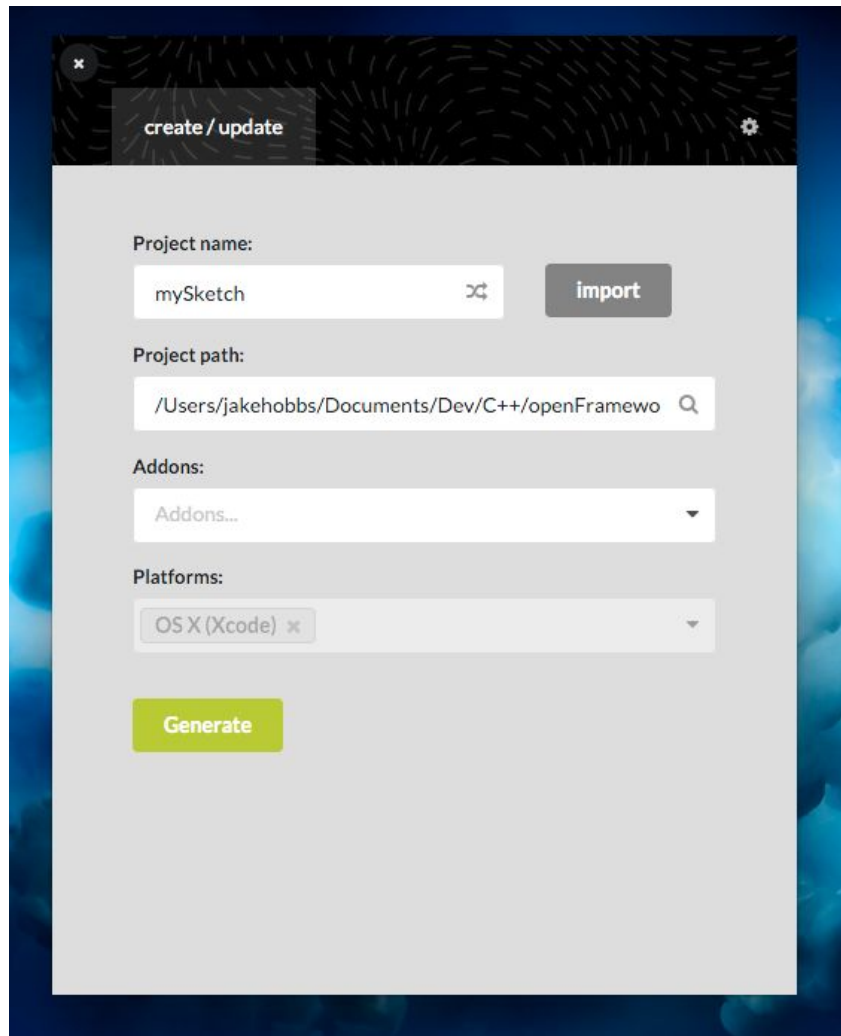
- Click “Choose...” next to local path and browse to the “myApps” folder of your openFrameworks master installation (you must use the master version of openFrameworks e.g. the one available from github). If you do not have a “myApps” folder, create one. Click “Open” and this will clone the repository.



5. To check if the project has been cloned successfully, navigate to your “myApps” folder. Inside you should find a folder named “DataDrivenApp-yourgithubusername”. This folder will contain a bin, src and guides folders and a readme file.



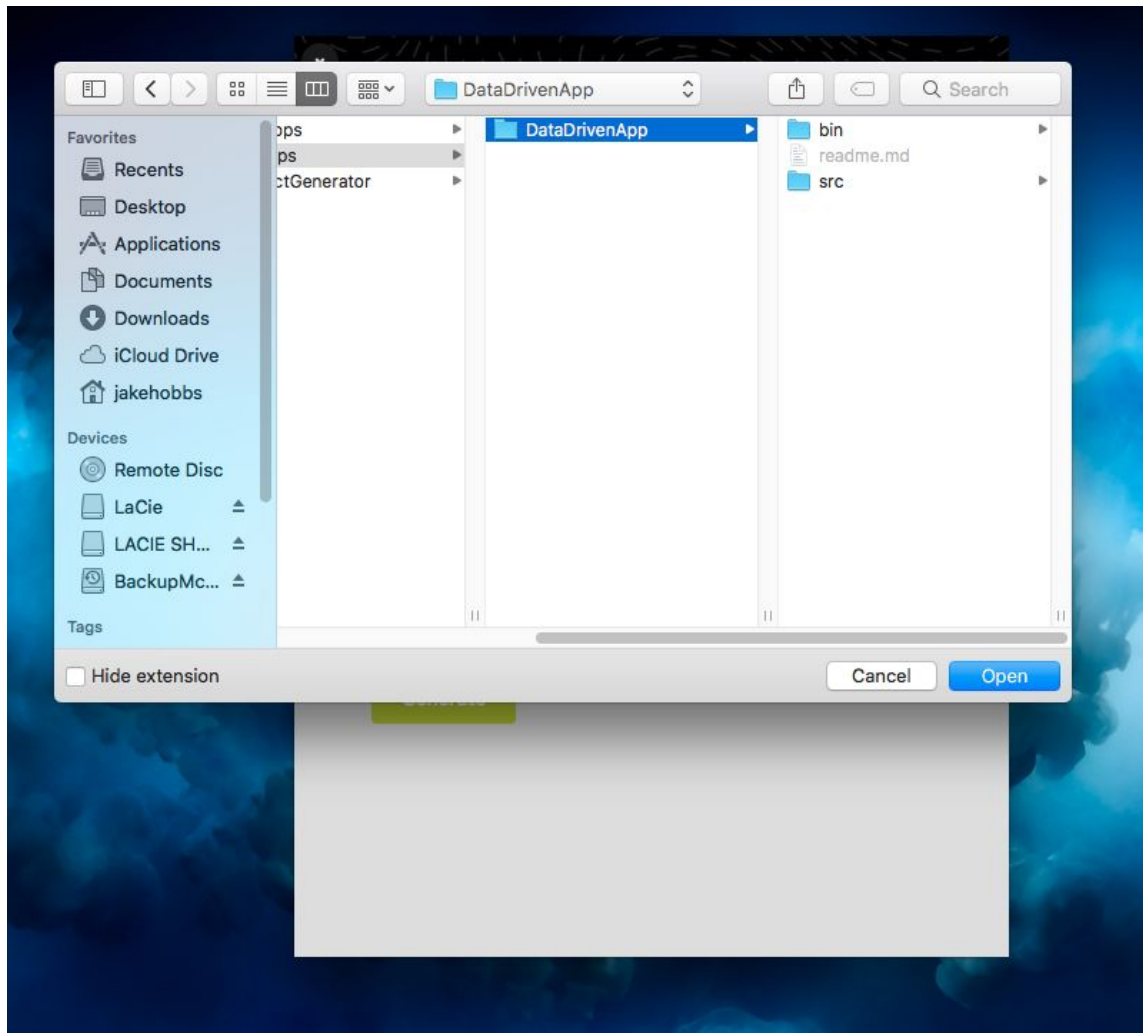
6. Now open up the project generator inside your openFrameworks installation and click “*Import*”.



The image shows a screenshot of the openFrameworks project generator dialog box. The dialog has a dark header bar with a close button (x) on the left and a settings gear icon on the right. Below the header, the text "create / update" is visible. The main area is light gray and contains several input fields and buttons:

- Project name:** A text input field containing "mySketch" with a swap icon (two arrows) to its right.
- Project path:** A text input field containing "/Users/jakehobbs/Documents/Dev/C++/openFramewo" with a search icon (magnifying glass) to its right.
- Addons:** A dropdown menu with the text "Addons..." and a downward arrow.
- Platforms:** A dropdown menu with the text "OS X (Xcode)" and a downward arrow.
- Buttons:** An "import" button is located next to the Project name field. A large green "Generate" button is at the bottom left.

7. Browse to your Data Driven App folder

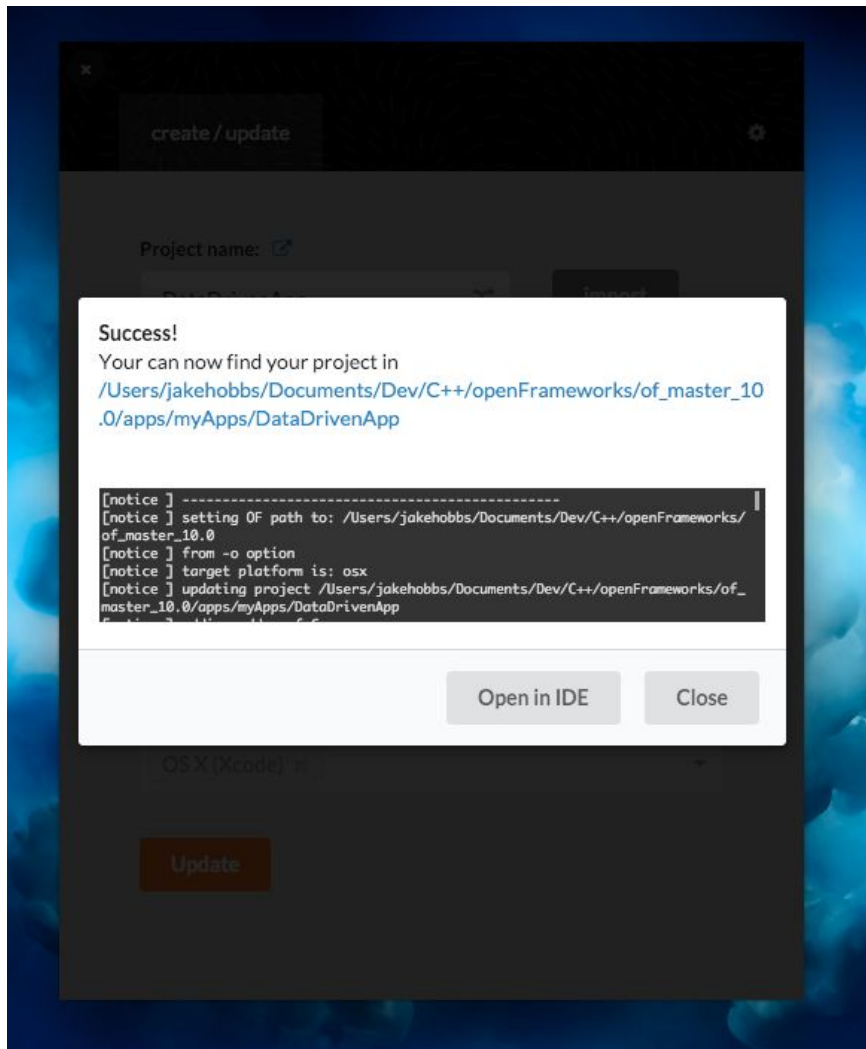


8. Select all the required addons, as shown in the image below and click “*Update*”. This will create all the required project files.

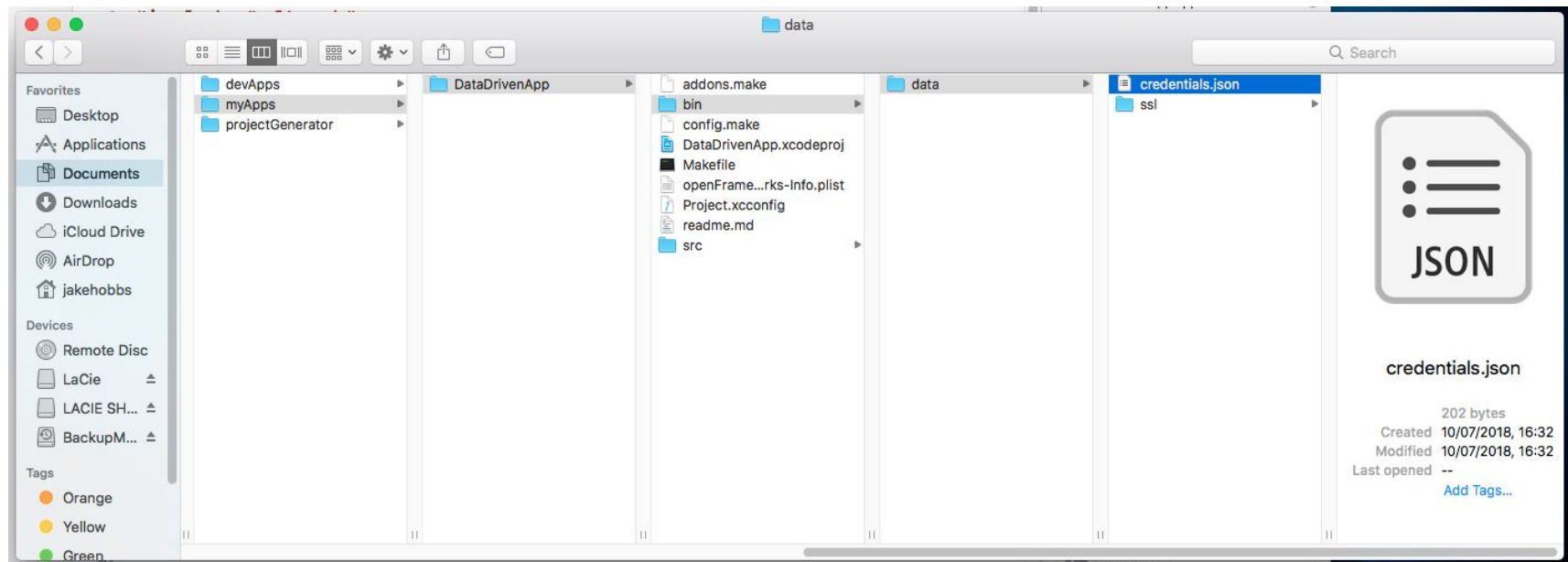
The image shows a 'create / update' dialog box with the following fields and options:

- Project name:** DataDrivenApp (with a copy icon) and an **import** button.
- Project path:** /Users/jakehobbs/Documents/Dev/C++/openFramewo (with a search icon).
- Addons:** A list of addons with 'x' icons to remove them: ofxGeo, ofxHTTP, ofxIO, ofxMediaType, ofxNetworkUtils, ofxPoco, ofxSSLManager, and ofxTwitter.
- Platforms:** A dropdown menu showing OS X (Xcode).
- Update** button at the bottom.

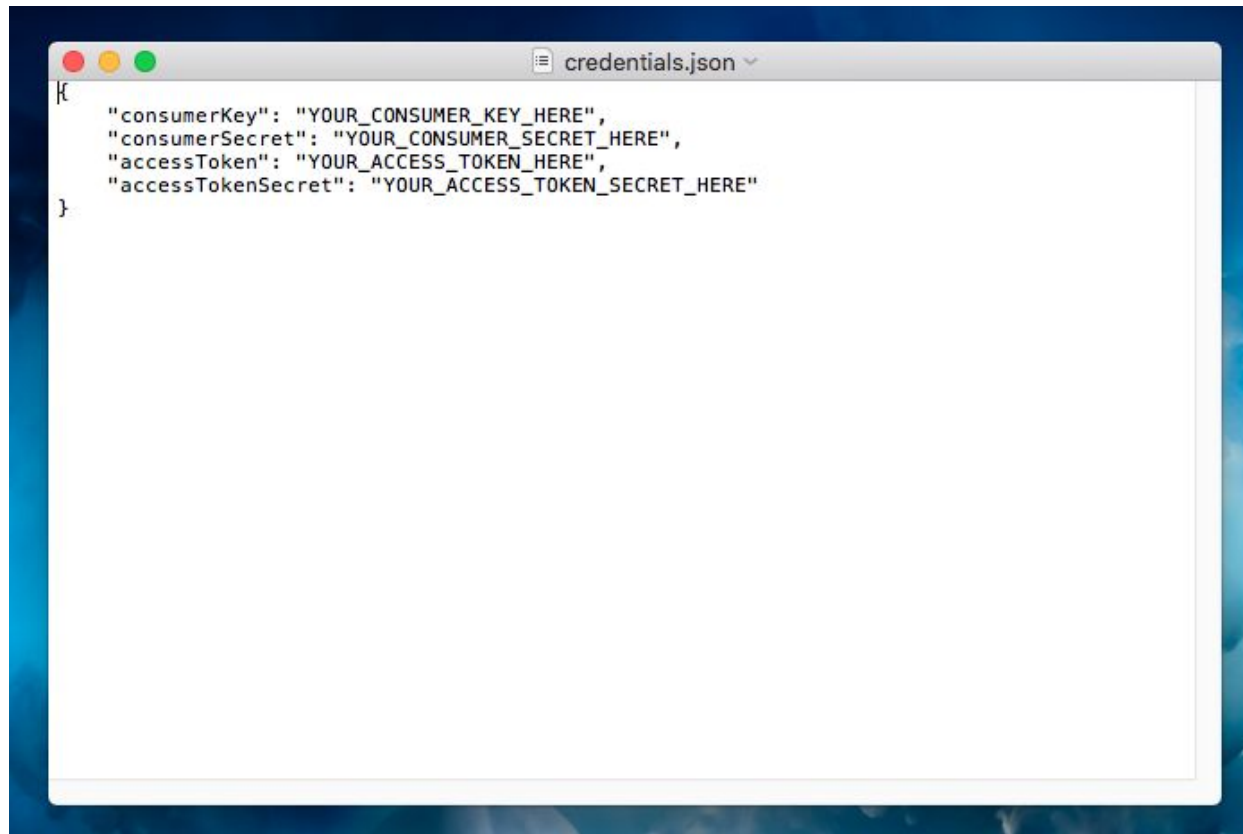
9. After a few moments the below message will appear. Click “*Open in IDE*” and your project will open in Xcode



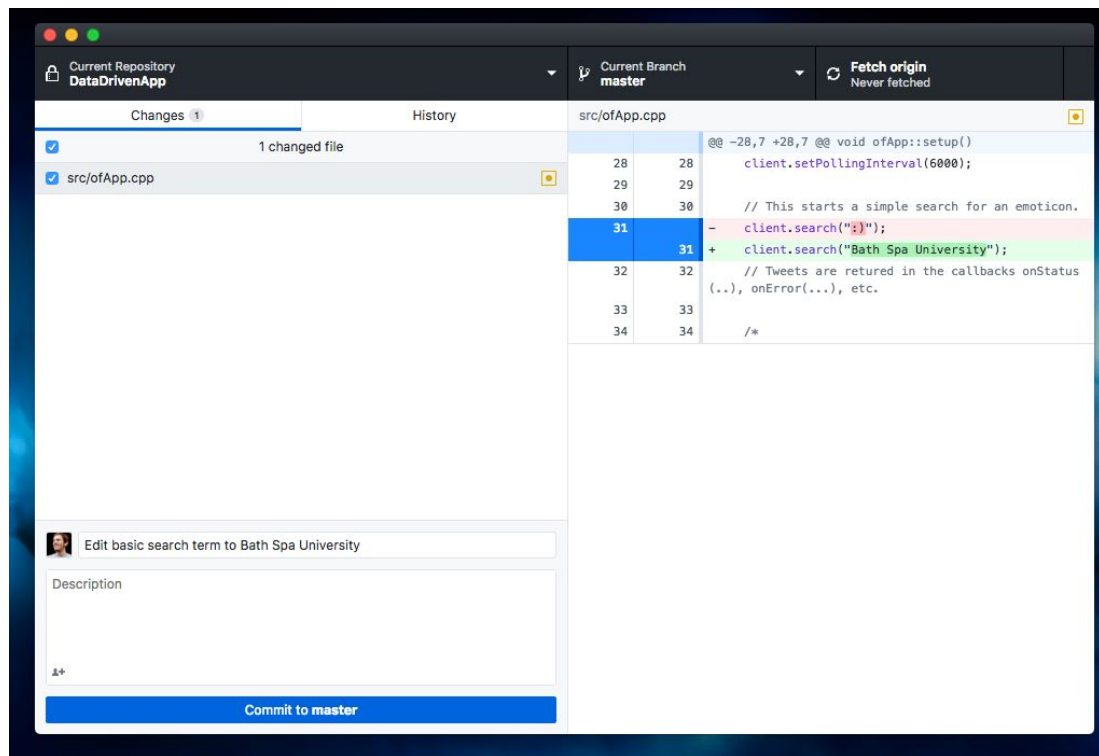
10. Before the basic project will run correctly you need to alter the credentials file located in the “bin/data” folder of your project. Navigate to this folder and right click the “credentials.json” file. Select “Open with → TextEdit”



11. Edit this file replacing the YOUR_CONSUMER_KEY_HERE etc with the keys generated by your twitter app. To create this twitter app signup for a [Twitter](#) account if you don't already have one, then go to [developer.twitter.com](#) to create an developer account and app. (See the *Creating a Twitter App guide* for more info). Once you have generated this app the keys will be located under the “Keys and Access Tokens” tab. When copying be careful that you keep the quotation marks and no additional spaces are added.



12. You are now ready to begin developing your Data Driven App. Github Desktop will keep track of your changes. You should regular 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. It would be a good idea to make use of branches as you add new features. This will allow you to test these new features in the knowledge that you can switch back to your “*master*” branch if the new feature doesn’t work out.



13. When you are happy with your final solution make sure you make one final commit and push back to your Github repository before the deadline. **Only code committed before the deadline will be marked.**