**Portfolio**

**Database Setup**

This Release I added a table to our Database to assist with sharing functionality. It was a requirement that our users should be able to share their files to someone while it remains private and is not available to other publics who happen to get hold of the link. Before adding any functionality to the website for our service I created the “downloads” folder to store a unique id for each download, as well as the name, and location of the file on the server. Future plans for this table would be to either add a column for an expiry time, a number of uses before it expires, or to add a hash of something like the time it was shared or its location, and the salt/key used.

**Code for Sharing**

The Story I contributed most to in this Release allowed users to share their files with other people, including non-users. To implement this I worked between 3 files, directory\_header.php, download\_functions.php, and share.php. In the directory\_header I user the front end of our site and it’s “share” button to get the information of the current selected file and send its name, and directory as parameters to my “prepareFileToShare” function in download\_functions.php. In this function I connect to the database and add a record of this file into the downloads table which generates it’s unique id, I then query the database to get this key and prepare a link which is returned to display on the directory page.   
Once this link is provided it may be visited to donwlaod the file. This is done through the share.php page which has no link to any users directory, instead it uses the unique id to query the downloads table and get the file name and location before it downloads the file. The record of this file is then deleted from the downloads table so that this link cannot be used again. An owner of a file can simply click “share” to generate a new link to share this file to someone else.

**Moving functionality into Bootstrap CSS build**

For a couple weeks there was a complete CSS template of our site which had been created using Bootstrap CSS. We had planned to each separately alter our own code to work with the new version but this slowed us down due to people working on the same files and not really knowing which parts are safe to change so I called a meeting to work together as a group to change these. James led the changes in this meeting but I assisted in making changes and identifying the areas where code wouldn’t work due to different header or id names or different file locations after some folders were moved and renamed in the process.

**Testing**

This release I used Selenium to test some of the stories which had been recently implemented. I referenced the acceptance criteria for the stories to make sure the criteria had been met but I used actions which would make sense as a user to make sure things acted as you expect. I tested Colour Tagging, Editing Descriptions, Searching by filename, and attempting to upload when you run out of storage. The most useful part of Selenium for testing these was using assert text to check things before certain actions and using it again after to test whether changes were made correctly or now. I struggled to use automated testing for colour tagging because I couldn’t find how to grab the colour value of a table cell in selenium but this is easily tested manually.