

## Sprint 1 Planning Document

CS 307

Team 34: Austin Lowell, Brian Wong, Clayton Lewis, Samuel Roberts

### Sprint Overview

During this first sprint we will be focusing mainly on setting up the basics of the UI and starting off the functionality with single-user permission modifications, as well as keeping these two aspects connected throughout the development process. We're going to pseudo-split the team into backend and frontend teams, but we want to always have some level of involvement in every area of development.

**Scrum Master:** Austin Lowell

**Meeting Plan:** Wednesdays and Saturdays around 7pm-8pm

**Risks and Challenges:** This'll be the first time working with a Chrome extension for a lot of us, which will represent a challenge regarding how fast we become familiar with the mechanics of such a platform. It is also our first time working with the Google Drive API, which might pose similar difficulties for our team. We put a lot of weight on intuitiveness and usability, which means our UI must be top-notch. Therefore, effectively testing it and making sure it scales in a pleasing aesthetic way into different resolutions is definitely a priority, which might also be somewhat challenging. For these reasons, the functionality of this sprint will take longer to develop than it would otherwise, and we have estimated our times accordingly.

### Sprint Detail

User Story		
Subtask	Time Required	Owner

As a user, I would like to be able to view my entire directory structure at once		
Create tree structure	2	Sam
Create file browser UI	6	Sam
Create displayTree()	5	Austin

function to populate tree		
Connect displayTree function to UI	2	Sam

Acceptance Criteria:

- Given that I have opened the OverDrive application, I should see a file browser that shows all of my Drive files and folders at the root level.
- Given that I have a collapsed folder containing at least one item, when I click on the arrow next to that folder then I should see the folder's contents listed beneath the folder and indented.
- Given that I have an expanded folder containing at least one item, when I click on the arrow next to that folder then the folder's contents should be hidden.
- Given that I have an expanded folder that contains at least one expanded folder that contains at least one item, when I click on the the arrow next to the top-level folder to collapse the folder and then proceed to click on the arrow next to the now-collapsed folder to re-expand it then the contained folder that was expanded should remain expanded (a subfolder's contents should remain listed beneath the folder and indented even if the folder containing it is collapsed then re-expanded).
- Given that I collapse a folder with items inside it that are checked, when I re-expand that folder then all of its checked contents should remain checked.
- Given that I have a folder that contains at least one item, when I click the checkbox next to the folder then all of the folder's files and subfolders as well as all of the contents of subfolders all the way to the leaves of the tree will be checked (though they will only show when expanded).

As a user, I would like to visualize file permissions in the directory structure.		
Create permissions window (UI)	4	Sam
Create function to get permissions	4	Austin
Connect permission function to UI	1	Sam

Acceptance Criteria

- Given that I have shared a file or folder with one or more users, when I click on that file or folder in the file browser then I should see a small window listing the permissions for each user for that file or folder.

- Given that I have opened the permissions window for a file or folder, when I click on the same file or folder then the window should close.
- Given that I have opened the permissions window for a file or folder, when I click on another file or folder then the contents window should change to reflect the permissions of the new file or folder.
- Given that I have clicked on a file or folder and opened its permissions window, when I add users, remove users, or edit users' permissions for that file or folder then the permissions window should be updated to reflect the changes.

<b>As a user, I would like to be able to see the number of files and subfolders in a folder</b>		
Create display numbers (UI)	1	Sam
Create function to find number of items contained in a folder	4	Brian
Create function to recursively find number of selected files and folders	5	Brian
Connect functions to UI	2	Sam

Acceptance Criteria:

- Given that I have a folder, when I look at the file browser then I should see a number next to that folder which represents the number of children that folder has (i.e. files and folders inside that folder on the first level).
- Given that I have one or more files or folders in the file browser, when I click on the check box next to one or more files and folders in the file browser then I should see the number of checked items at the top of the screen.
- Given that I have one or more files or folders in the file browser, when I uncheck any number of checkboxes then I should see the number of checked items at the top of the screen decrease accordingly.
- Given that I have checked one or more files or folder inside of a folder, when I collapse that folder the number of checked items should not change.

<b>As a user, I would like to easily add a person to my files and folders.</b>		
Create UI for adding a user	4	Clayton
Create function addToFile, adds one user to one file	5	Austin

Connect addToFile to UI for adding a user	1	Clayton
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Acceptance Criteria:

- Given that I have a file selected that I have permission to share, given that I have typed a valid email into the email bar, and given that I have selected one of the 3 accesses, when I press the “add user” button then the user should be added to the selected file with the selected access.
- Given that I do not have a file selected, when I press the “add user” button then I should receive an error message telling me that no file was selected, and no user should be added to any file.
- Given that I do not type a valid email into the email bar (or no email at all), when I press the “add user” button then I should receive an error message telling me that I have an invalid input, and no user should be added to any file
- Given that I have a file selected and given that I do not have permission to share the selected file, when I press the “add user” button then I should receive an error message telling me that I do not have permission to share the selected file, and no user should be added to any file.
- Given that I have added a user successfully to a file, when I look at the permissions of the file in the directory tree then the change should be reflected.

As a user, I would like to easily remove a person from my files and folders.		
Create UI for removing a person	4	Clayton
Create function removeFromFile, removes one user from one file	5	Brian
Connect removeFromFile to UI	1	Clayton

Acceptance Criteria:

- Given that I have a file selected that I have permission to share, given that I have typed a valid email into the email bar, and given that I have selected one of the 3 accesses, when I press the “remove user” button then the user should be removed from the selected file.

- Given that I do not have a file selected, when I press the “remove user” button then I should receive an error message telling me that no file was selected, and no user should be removed from any file.
- Given that I do not type a valid email into the email bar (or no email at all), when I press the “remove user” button then I should receive an error message telling me that I have an invalid input, and no user should be removed from any file.
- Given that I have a file selected and given that I do not have permission to share the selected file, when I press the “remove user” button then I should receive an error message telling me that I do not have permission to remove a user from the selected file, and no user should be removed from any file.
- Given that I have removed a user successfully from a file, when I look at the permissions of the file in the directory tree then the change should be reflected.

As a user, I would like to easily change another user’s permissions for a file or folder.		
Create UI for changing permissions	4	Clayton
Expand addToFile to allow for changing permission of one user on one file	5	Austin
Connect addToFile to UI for changing permissions	1	Clayton

Acceptance Criteria:

- Given that I have a file selected that I have permission to share, given that I have typed a valid email into the email bar, and given that I have selected one of the 3 accesses, when I press the “change permission” button then the user’s permission for the file should be changed to the selected access.
- Given that I do not have a file selected, when I press the “change permission” button then I should receive an error message telling me that no file was selected, and no permissions should be changed for any file.
- Given that I do not type a valid email into the email bar (or no email at all), when I press the “change permission” button then I should receive an error message telling me that I have an invalid input, and no permissions should be changed for any file.
- Given that I have a file selected and given that I do not have permission to share the selected file, when I press the “change permissions” button then I should

receive an error message telling me that I do not have permission to share the selected file, and no permissions should be changed for any file.

- Given that I have successfully changed the permissions of a user for a file, when I look at the permissions of the file in the directory tree then the change should be reflected.

As a user, I would like to easily give ownership of a file or folder to another user.		
Create UI for giving ownership	4	Clayton
Create function addOwners, adds one owner to one file	5	Brian
Connect addOwners to UI	1	Clayton

#### Acceptance Criteria:

- Given that I have a file selected that I am the owner of and given that I have typed a valid email into the email bar, when I press the “add owner” button then the user should become the owner of the selected file.
- Given that I do not have a file selected, when I press the “add owner” button then I should receive an error message telling me that no file was selected, and no ownership should be changed for any file.
- Given that I do not type a valid email into the email bar (or no email at all), when I press the “add owner” button then I should receive an error message telling me that I have an invalid input, and no ownership should be changed for any file.
- Given that I have a file selected and given that I am not the owner of the selected file, when I press the “add owner” button then I should receive an error message telling me that I do not have permission to change ownership of the selected file, and no ownership should be changed for added to any file.
- Given that I have successfully changed ownership of a file, when I look at the permissions of the file in the directory tree then the change should be reflected.

## Backlog

1. As a user, I would like to install the OverDrive extension in Google Chrome.
2. As a user, I would like to install the OverDrive extension in Mozilla Firefox (if time allows)
3. As a user, I would like to easily add multiple people to a file or folder at once.
4. As a user, I would like to easily remove multiple people from a file or folder at once.
5. As a user, I would like to easily change multiple people's permissions for a file or folder at once.
6. As a user, I would like to easily add a person to multiple files and folders at once.
7. As a user, I would like to easily remove a person from multiple files and folders at once.
8. As a user, I would like to easily change permissions of a person for multiple files and folders at once.
9. As a user, I would like to easily add multiple people to multiple files and folders at once.
10. As a user, I would like to easily remove multiple people from multiple files and folders at once.
11. As a user, I would like to easily change permissions for multiple people for multiple files and folders at once.
12. As a user, I would like to easily give ownership of multiple files or folders to another user.
13. As a user, I would like to easily request ownership of a file or folder from other people.
14. As a user, I would like to easily request ownership of multiple files and folders from other people.
15. As a user, I would like to select whether editors can change permissions of a file or folder
16. As a user, I would like to select whether editors can change permissions of multiple files and folders at once.
17. As a user, I would like to choose which subfolders and files are affected by changes to a folder.
18. As a user, I would like a tutorial of the features the extension offers.
19. As a user, I would like to create groups of people with whom I can easily share files .
20. As a user, I would like to be able to change the color scheme of the extension (if time allows).
21. As a user, I would like to be able to give user feedback.
22. As a developer, I would like to receive user feedback.