

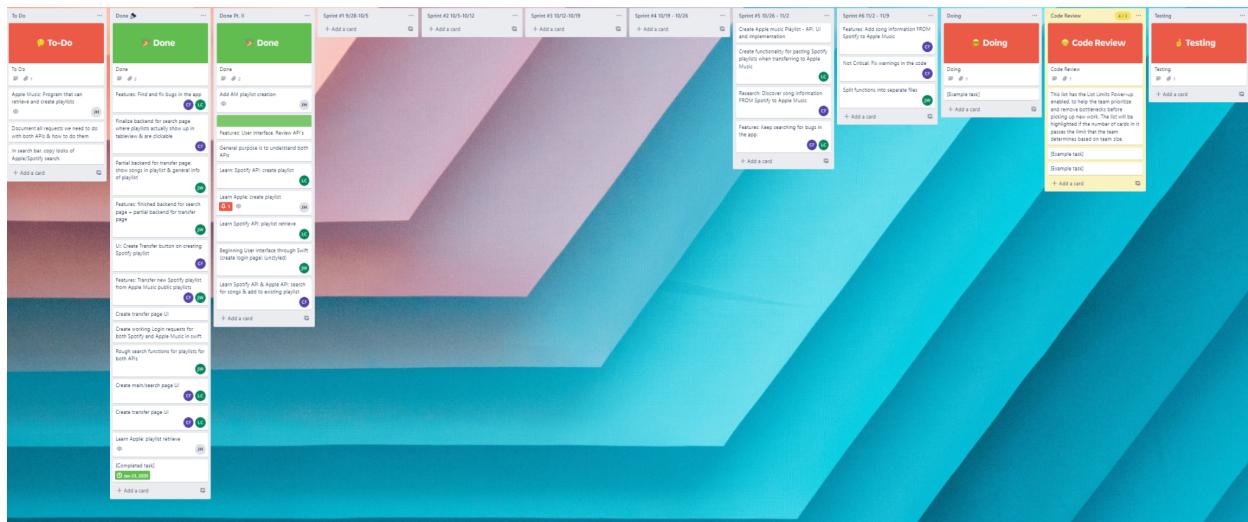
## Title: Playswap

**Who:** Jordan Wood, Logan Chayet, Clay Fricke, Jack Higgins, Preston Dotesy

## **Project Description:**

Playswap is an IOS mobile application used for transferring playlists between streaming services, specifically Spotify and Apple Music. It is common for people with different streaming services to want to share playlists. The only way to do that is to manually add each song the other person has in a newly created playlist. Playswap makes this process quicker and simple. The app is meant to be used between two people with different music services. When the user opens Playswap they can select the music service they have and login. Both Spotify and Apple have a way to share playlists between the users of their streaming service by sending a link of the playlist. Playswap allows a user to use these links which typically can only be opened in Spotify or Apple. After a link is pasted we use APIs to search for each song title and create a new playlist. Description, cover art, and playlist title are all copied into the newly created playlist. The other way to get a playlist is to search for the playlist in the Apple Music or Spotify public library. This method only works for public playlists. The time from opening the app to downloading the playlist takes less than a minute.

## Project Tracker: Trello



<https://trello.com/b/e4EE4ypT/kanban-template>

## Video:

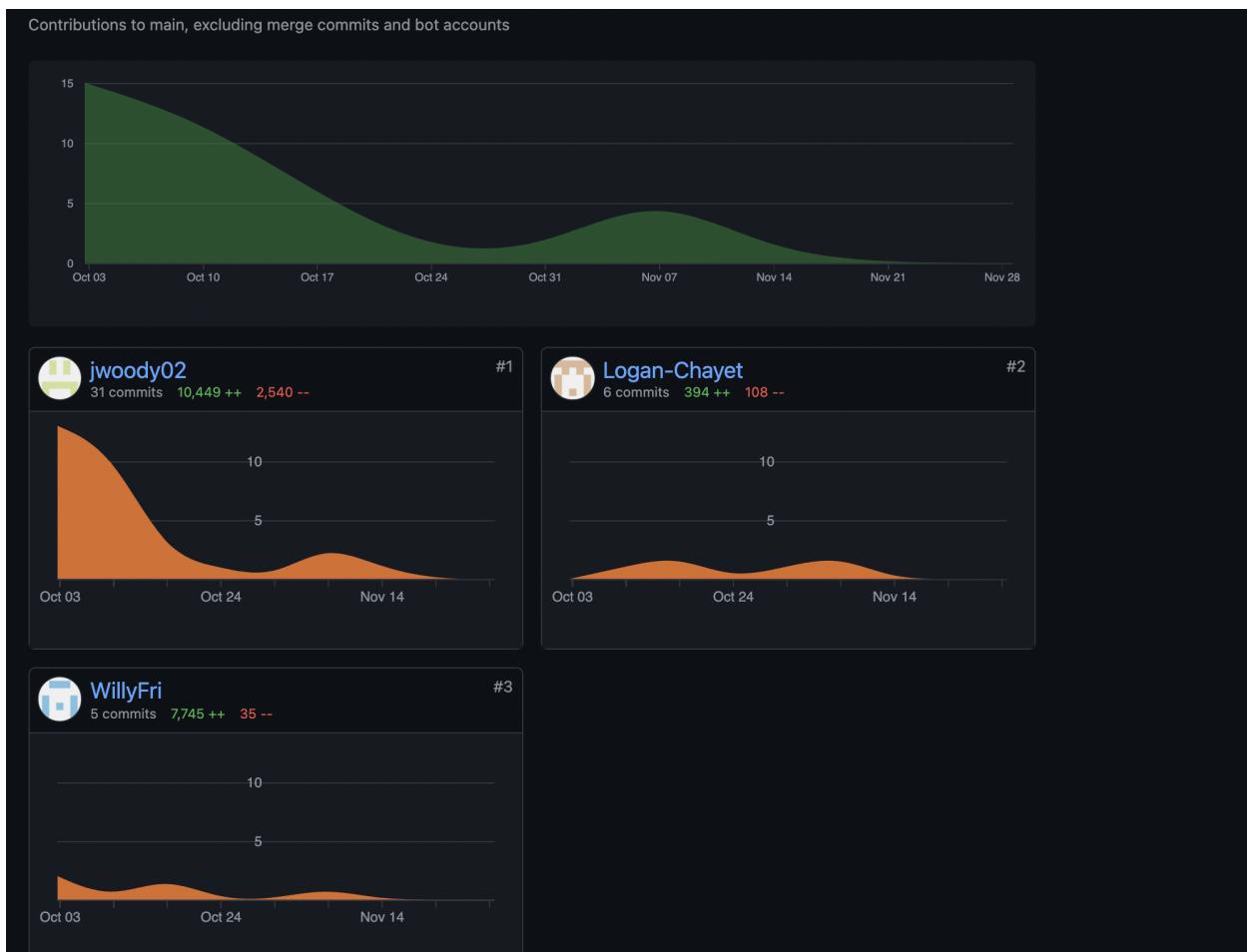
<https://drive.google.com/file/d/1CGvikLAdOegQxRqNctGVYAy4SD-l8Dmt/view?usp=sharing>  
(should be viewable if signed in with cu boulder account)

## VCS:

Git Repository:

<https://github.com/woody02/PlaySwap>

## Contributions:



Screenshot of each member's contributions (i.e. "commits") throughout the semester from Git.

You may use git CLI to fetch insights on contributions by team members.

A brief (not more than 100 words) from each team member about their contributions.

This should include the technologies worked on

Features that have been contributed to

Jordan Wood: Since I had experience with iOS apps before, I created the initial files for the project and setup the basic compiler variables/code within xcode to get everything up and running (that's why I have so many commits in the beginning) while everyone was getting familiar with the iOS "coding language" or swift. Following that we worked together to get things done in order and assigned specific features for people to do. I specifically worked on the backend of both apple music and spotify and worked with other members that created the AJAX requests to convert them into swift and populate the UI with responses from spotify and apple music servers.

The screenshot shows the commit history for the 'main' branch of a GitHub repository. The commits are grouped by date:

- Commits on Nov 17, 2021:**
  - improved transfer to spotify** (Verified) - jwoody02 committed 12 days ago. Hash: a8de820
- Commits on Nov 8, 2021:**
  - milestone 5** (Verified) - jwoody02 committed 21 days ago. Hash: 2a40c83
  - Merge pull request #1 from jwoody02/jwood-branch** (Verified) - jwoody02 committed 21 days ago. Hash: 6f161f0
  - added apple music transfer code (needs more testing)** (Verified) - jwoody02 committed 21 days ago. Hash: f11627c
  - added search song function for apple music** (Verified) - jwoody02 committed 21 days ago. Hash: b9f7dd7
- Commits on Oct 29, 2021:**
  - bug fixes** (Verified) - jwoody02 committed on Oct 29. Hash: 1940fc4
- Commits on Oct 18, 2021:**
  - added app icon & bug fixes** (Verified) - jwoody02 committed on Oct 18. Hash: f4c813d
  - added popup when done transferring to spotify** (Verified) - jwoody02 committed on Oct 18. Hash: 82abbd
- Commits on Oct 14, 2021:**
  - new apple music functions** (Verified) - jwoody02 committed on Oct 14. Hash: 02a4761

-o	Commits on Oct 5, 2021
	finished function to add multiple songs at once jwoody02 committed on Oct 5
	Merge remote-tracking branch 'refs/remotes/origin/main' jwoody02 committed on Oct 5
	finished function to add multiple songs at once jwoody02 committed on Oct 5
	finished createPlaylist & addSongToPlaylist functions jwoody02 committed on Oct 5
-o	Commits on Oct 4, 2021
	Create README.md jwoody02 committed on Oct 4
	finished search function for spotify jwoody02 committed on Oct 4
	finished up spotify login + added search backend for spotify (look fo... jwoody02 committed on Oct 4
	initial spotify login backend done jwoody02 committed on Oct 4
	initial spotify login backend jwoody02 committed on Oct 4
	added basic interface (email, password, and login button) jwoody02 committed on Oct 4
	added some basic functions jwoody02 committed on Oct 4
	Initial Commit jwoody02 committed on Oct 4

	new apple music functions jwoody02 committed on Oct 14
-o	Commits on Oct 13, 2021
	added all functions for apple music (still need to fix bugs) jwoody02 committed on Oct 13
	added apple music login + search & ui changes jwoody02 committed on Oct 13
-o	Commits on Oct 12, 2021
	successfully load and show tracks in playlist jwoody02 committed on Oct 12
	added more to transfer page + bug fixes jwoody02 committed on Oct 12
	fixed uitableview not recognizing tap jwoody02 committed on Oct 12
	backend changes jwoody02 committed on Oct 12
	ui changes and bug fixes jwoody02 committed on Oct 12
-o	Commits on Oct 11, 2021
	finished spotify search, now actually shows results jwoody02 committed on Oct 11
	Delete ViewController.swift jwoody02 committed on Oct 11
	finished spotify search, now actually shows results ... jwoody02 committed on Oct 11

Logan Chayet: I started off the project working on UI such as transfer page display. After the UI from the wireframe was completely implemented I went to fetch data from both APIs to populate the transfer page. Once that functionality was successfully implemented I spent the rest of my time in the project coding the functionality for pasting links into the search page of Apple Music and Spotify. Finally, I went through the finished code, fixed major data allocation bugs and warnings.

The screenshot shows a GitHub commit history for the 'main' branch. The commits are listed in chronological order from top to bottom:

- Commits on Nov 9, 2021:
  - Fixed warnings** (commit e5ba2b7) - Logan-Chayet committed 20 days ago
- Commits on Nov 8, 2021:
  - Fixed warnings and code errors** (commit ce56165) - Logan-Chayet committed 21 days ago
- Commits on Nov 2, 2021:
  - Added Spotify URL pasting when transferring to Apple Music** (commit 051a52a) - Logan-Chayet committed 27 days ago
- Commits on Oct 19, 2021:
  - Added full functionality of pasting links into search bar** (commit 3a18682) - Logan-Chayet committed on Oct 19
- Commits on Oct 18, 2021:
  - Added partial URI paste func. for Apple Music** (commit fc9f5da) - Logan-Chayet committed on Oct 18
- Commits on Oct 12, 2021:
  - Added Transfer Page (work in progress)** (commit 5adb76b) - Logan-Chayet committed on Oct 12

At the bottom of the commit history, there are 'Newer' and 'Older' buttons.

Clay Fricke: I started the project by creating the initial search bar user interface, and then began adding functionality for the searching of public apple music playlists. After creating the search bar functionality, I created the transfer button UI and functionality. This transfer button accesses the data from apple music and transfers the same data to spotify in a new playlist. Lastly, when all of our code was written, with Logan, I corrected all the non-terminal warnings for optimization of our code. Throughout, I worked with Logan and Jordan, and was constantly testing for bugs in the app and correcting those.

The screenshot shows a GitHub commit history for a repository named 'main'. The commits are organized by date:

- Commits on Nov 8, 2021:
  - Fixing the remaining warnings (commit fea676c) - WillyFri committed 21 days ago
- Commits on Oct 18, 2021:
  - added transfer button and transfer from apple music to spotify done (commit e086a79) - WillyFri committed on Oct 18
  - added transfer button and transfer from apple music to spotify done (commit bb26fb2) - WillyFri committed on Oct 18
- Commits on Oct 8, 2021:
  - Added search bar UI after signin for spotify (commit 06fd50f) - WillyFri committed on Oct 8
  - Added search bar functionality after login for spotify (commit 9fb0a15) - WillyFri committed on Oct 8

Jack Higgins: The majority of my time was spent trying to understand the Apple music API's little documentation. I eventually worked with Jordan and Clay to implement the Apple Music transfer into the application. This includes a playlist creation and song search. I did not have a Mac during this project so working on the code could only be done at the library or during group meetings on another person's computer. To add to the problem, the library's Macs did not have an up to date version of Xcode so I could not build the app. To make up for this I contributed as much as I could to any non-coding part of the project, such as the milestone.

Preston Dotesy: Much like Jack, as I do not own any Apple products I was unfortunately unable to help as much with the actual coding of the project as I wanted to. As a result of not owning equipment that would let me do more coding work, I focused my attention on doing other tasks which did not need to be done on a Mac. Tasks that I worked on included creating diagrams and charts for milestone submissions, researching and studying the Spotify API protocols and sharing my research with my teammates, participating in group brainstorming and testing of the application, and supporting teammates in whatever capacity I could.

The screenshot shows two GitHub commit entries from a user named Pdotsey:

- Update README.md (commit 4921df5) - Pdotsey committed on Sep 20. The commit message includes a 'Verified' badge, a copy icon, a link to the commit, and a 'Tip' icon.
- Update README.md ... (commit b0511d8) - Pdotsey committed on Sep 20. The commit message includes a 'Verified' badge, a copy icon, a link to the commit, and a 'Tip' icon.

## Deployment:

<https://testflight.apple.com/join/FAYjh33Y>

This link is an Apple TestFlight invitation link. All that needs to be done is have an iPhone, click on the link, install TestFlight and finally it will add PlaySwap to the list of apps which you can install.