Overview: SpoTV is a web application that utilizes the Spotify api to locate a YouTube music video playlist of every song on a Spotify playlist. The user will be able to login and create an account, customize their profile, and save their created music video playlists for later viewing. If there is no video found, then the song will be skipped. If there is time then a visualizer will be implemented (as per the first project submission), but for now we have decided that the main functionality will take priority.

Team Members:

Team Member Name	Github Usernames
TEAM MEMBER #1 Harry Hause	hhause19
TEAM MEMBER #2 Trevor Brown	trevortrev11
TEAM MEMBER #3 Ruifeng Zhang	RUI123
TEAM MEMBER #4 Anthony Boccadoro	aboccadoro
TEAM MEMBER #5 William Sattanuparp	willsattanuparp
TEAM MEMBER #6 Alex Sellers	acelery420

Github Repository: https://github.com/hhause19/326webprogrammingproject

Design Overview: Our index page (homepage) links to the account management page and the playlist page and contains the user profile picture, their name, and all playlist information(such as the song list and name of the playlist). The playlist page contains all the playlist info. The playlist page links to the playlist detail page, as well as a redirect back to the home page and a link to the account information page. The account information page contains the account information, including the email and profile picture. This page links back to the home page. The preference page contains information of all songs and filter buttons with genres. This page also links back to the home page.

Problems/Successes: From an overall standpoint, our team has been fantastic working together. Our communication is good; when we hold meetings we have every single member is in attendance. Perhaps we can improve our collaboration by meeting more often, and once more of us become more familiar with github it will be smooth sailing. One of the implementation difficulties we encountered was that we had difficulty using the admin login once we pulled from github, but this was quickly resolved through github version control. We had some difficulties with getting everybody on the same page on the github, but this was resolved through deleting the file and doing a clean pull from the repo. Mistakes were made pushing changes to master, but this was resolved through reversion.

Individual Write-Ups

Anthony Boccadoro: I created the django skeleton website and worked on creating the superuser with help from Ruifeng. I then began to work on the YouTube playlist model. This model is used whenever a playlist is created because our algorithm will eventually create JSON YouTube playlist data based on the imported Spotify playlist. Therefore, every time there is a spotify playlist, a YouTube music video playlist will be generated with data populating that model within the database. I believe I contributed to about 15-20% of the work ranging across multiple parts of the assignment. I also believe everyone else contributed an even amount.

Will Sattanuparp: I wrote the entirety of the write-up, and implemented the user account info page into a template incorporating the model data. I had help from Alex with debugging the implementation. I think my contribution was around 10% for this portion of the project, because I did not have a heavy workload.

Alex Sellers: I created the songs model and filled the database with mock data. I worked with Trevor on implementing the views and url mappings for the user's playlists and individual playlist view. My overall contribution is an even 20%.

Ruifeng Zhang: I helped Anthony to solve the problem with superuser. I then do some revisions to the project. At the end, I find out doing more things. I created the preference page into a template incorporating the model data and fix some pieces of the code. I think my contribution was around 10% for this portion of project, since I did not write so much.

Trevor Brown: I helped create the playlist model and define its relationship to the song model. I also helped Alex implement views and url mappings for the playlists page and playlist view. Alex and I also created templates for these pages by modifying our existing html files. I contributed 15 - 20 %.

Harry Hause: I worked on mainly the home page and the general styling for the project. I implemented the views for index and did the implemented the template for the home page. Also helped make the ER diagram and implemented the User model. Contributed: 15-20% I think everyone has contributed evenly for the most part at this point.