Homework 5: Interim Project Report

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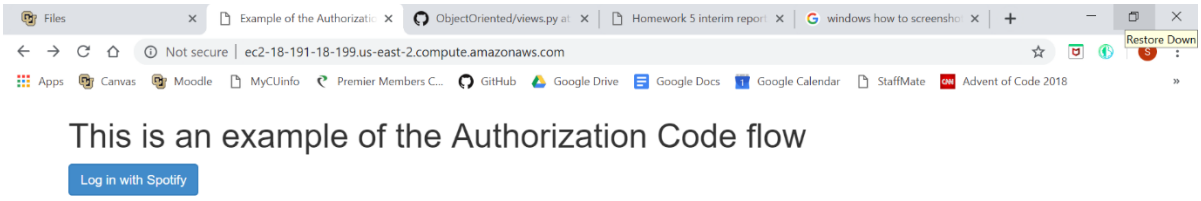
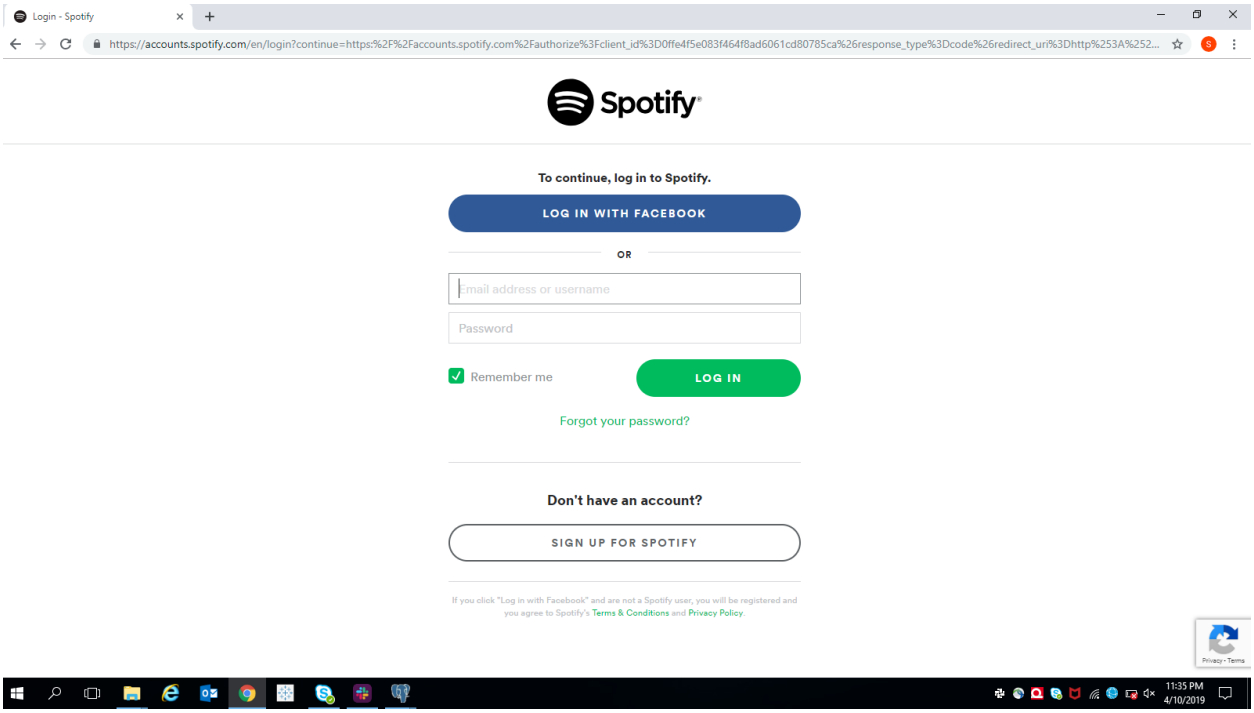
Summary:

- A large part of the first two weeks of our project have been spent setting up our web server. We decided to use Django to run our web application, so we have spent time learning how to use this. In addition to setting up the framework of our site, we have also added code that allows the users to sign in to Spotify and authorize our application to access their profile information. After users log in, we are able to access their profile and get all of their playlists using the Spotify API, Python requests library, and Python Spotipy library.
- The next steps for the project are to allow the user to select one of their playlists to be optimized. From there, our app will use the Spotify API and Echo Nest to recommend songs to be added and removed from the selected playlist. We can then add or delete these songs using the Python Spotipy library. In addition to adding this functionality, we need to add some CSS to our HTML code in order to make our site more visually pleasing.
- We have been unable to incorporate design patterns into our current system, as the majority of our work so far has been setting up the web page and accessing user's Spotify accounts.
- Screenshots (keep in mind, as we mentioned earlier, we have not yet added any CSS to make this visually appealing):

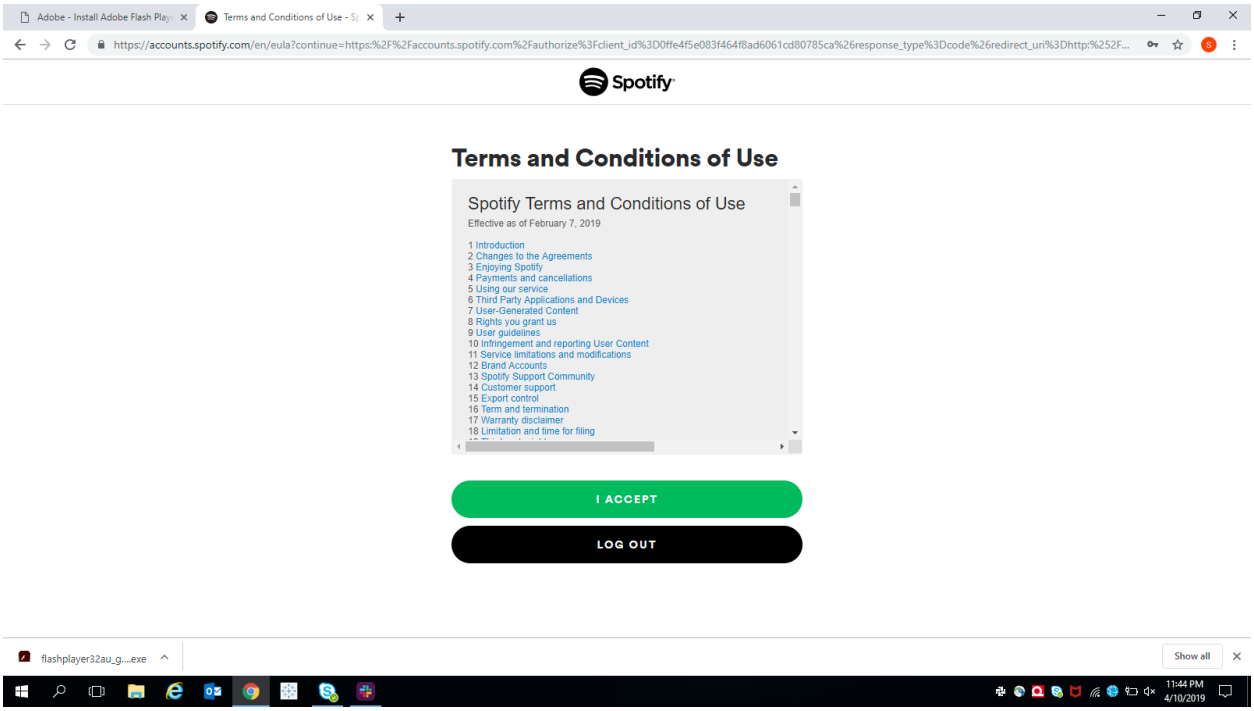
The first page the user is presented



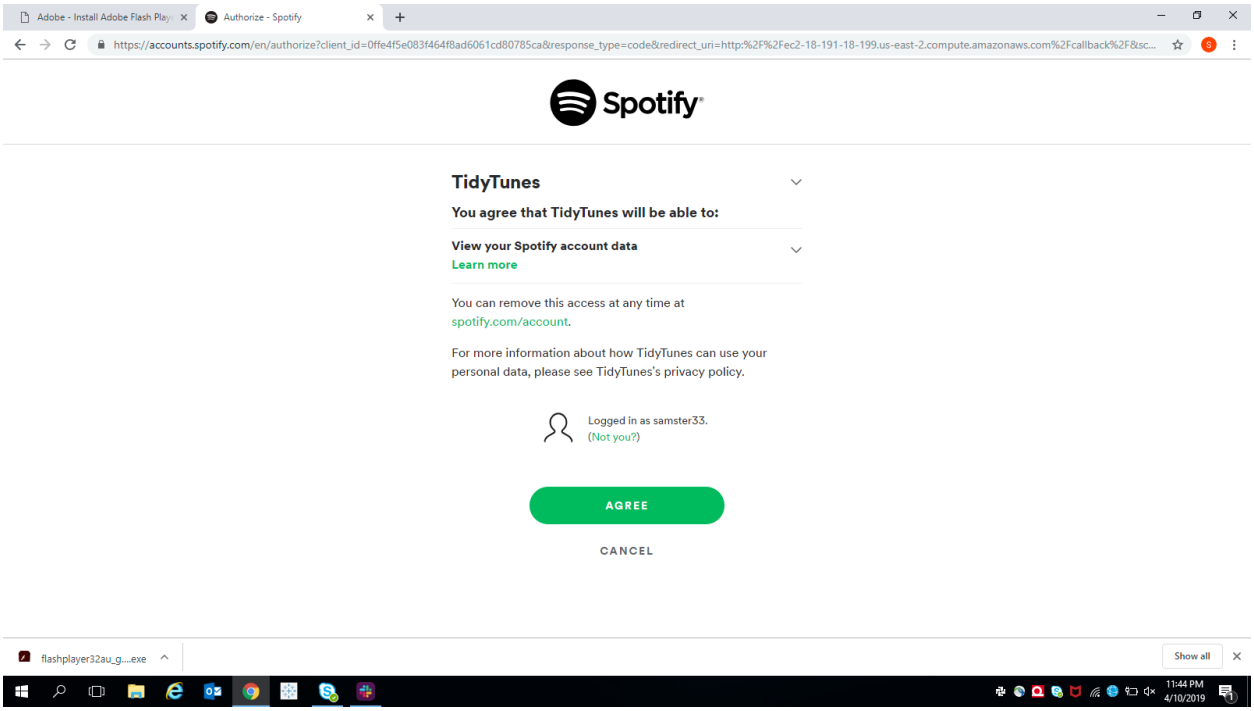
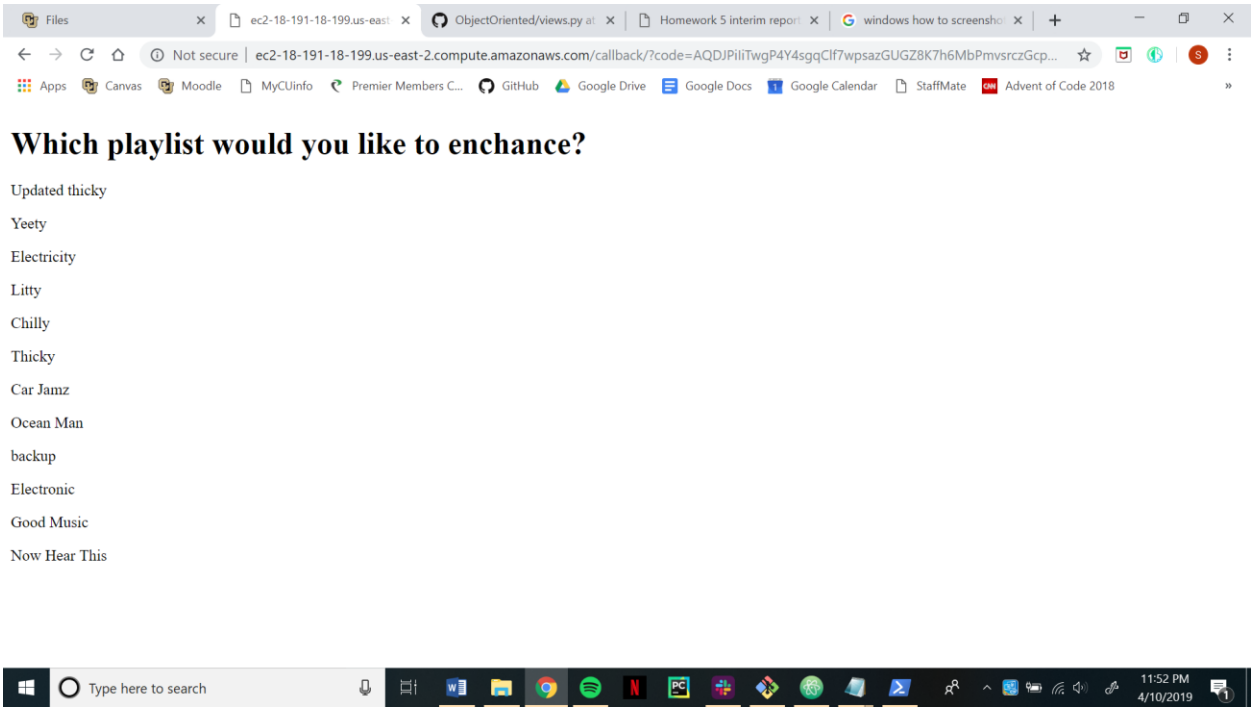
Once the user chooses to log in, they are taken to the Spotify log in page.



Then they must agree to the terms and conditions



Now they will authorize our app to access their profile



Finally, they are shown a list of their playlists