Group members: Jiayuan Zheng, Xu Chen, Lucas Arruda, Jennifer Tsui

FIRST APP

This app will take a Spotify playlist, and automatically generate a matching video playlist on Youtube. We plan on using the Spotify and Youtube APIs. The database will be used to store user information. The first page of the app is going to ask users to sign in to their Spotify account (state 1). Once users get into the Spotify account, they can access their Spotify music library (state 2) and choose an existing playlist. After a playlist is selected, out webapp will automatically match music from the Spotify playlist to music videos available on youtube and generate a video playlist, which will then be displayed on the screen (state 3). The app will first pick videos that are published by accounts with the "official mark," otherwise known as verified accounts. If it's the case that the "official music video" doesn't exist, the app will pick the one with the highest number of views. After this process is completed and a video playlist is generated, the app will ask users to confirm the playlist, and they can manually pick another video if they wish (state 4). If users are satisfied with the playlist, they can press "PLAY" button and play the list (state 5).
Here are the five states:
State 1: users sign into their Spotify account,
State 2: users access their music library and select a playlist
State 3: app will match music videos from youtube to the playlist, and display the youtube playlist to the user.
State 4: Users edits the playlist (if desired), then confirms
State 5: Play the queue!

SECOND APP

This app can help people find restaurants' coupons or deals and the cheapest/quickest way they would like to get to the restaurants. The database of the app stores the people's username and email information. The app uses the APIs of US yellowpages and Yelp to get the restaurant's information. Once it has the restaurant information, the app gets the parking and transaction information from the APIs of BestParking and Google Maps. Hence, by the web app, people can plan to go and eat in a restaurant the way that they believe saves the most money for them.
APIs: US YellowPages, Yelp, BestParking, GoogleMaps
State 1: a search page where people can enter the name or type of restaurant they are looking for
State 2: pull up deals and coupons to save money
State 3: recommend cheaper transportation options and the parking places nearby
State 4: a homepage that stores user information and the searching history