

System Description

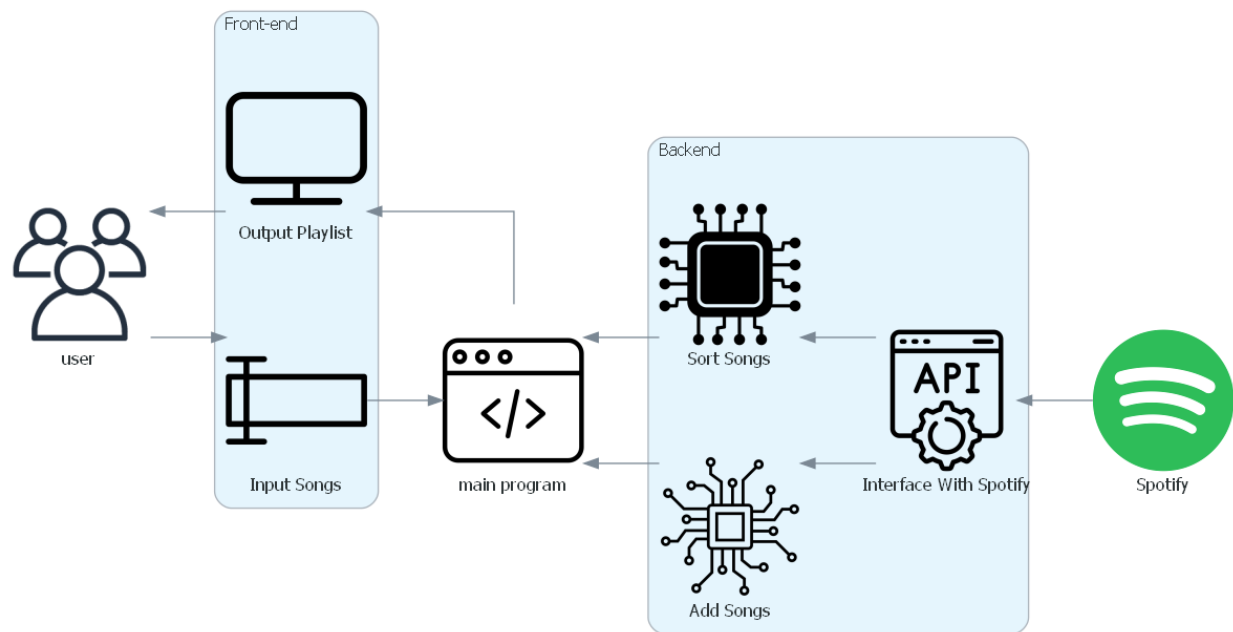
Simmer the Toad

COSC 4950: Senior Design I

Delivered 10/25/2022

General overview of systems:

We will have a frontend that the user interacts with to, at minimum, 1) input songs and 2) receive a playlist of songs. The backend will use get data from Spotify to sort the songs by genre and add songs if the genres are too different.



System

Subsystems:

In particular, the backend will likely function in the following manner: 1) plot the songs in genre clusters from Spotify, 2) find a short path that includes each song, and 3) if the path goes through a genre without a song, then add at least one new song from that genre cluster.

