Music Bot can give users music based on their emotion. It can get users' emotion by analyzing dialogue between users and our bot. Users can choose style of music like funk, jazz and others. Users can change music based on their preferences. As a music application, user can search the singers, then music bot can play their music and print out the lyric of music.

Show how we achieve the process of user input.

Design Decision

IBM Waston VS Discover

We need assistant of IBM Waston to handle nature language dialogues. We don't need its discover service as a search engine and a database because Spotify helps us do that.

Analysis: Tone VS Sentiment

It helps us simplify the process of sentiment analysis. And It returns several neutral tags which enables us to search directly. IBM sentiment analysis cannot achieve that since it always returns positive of negative.
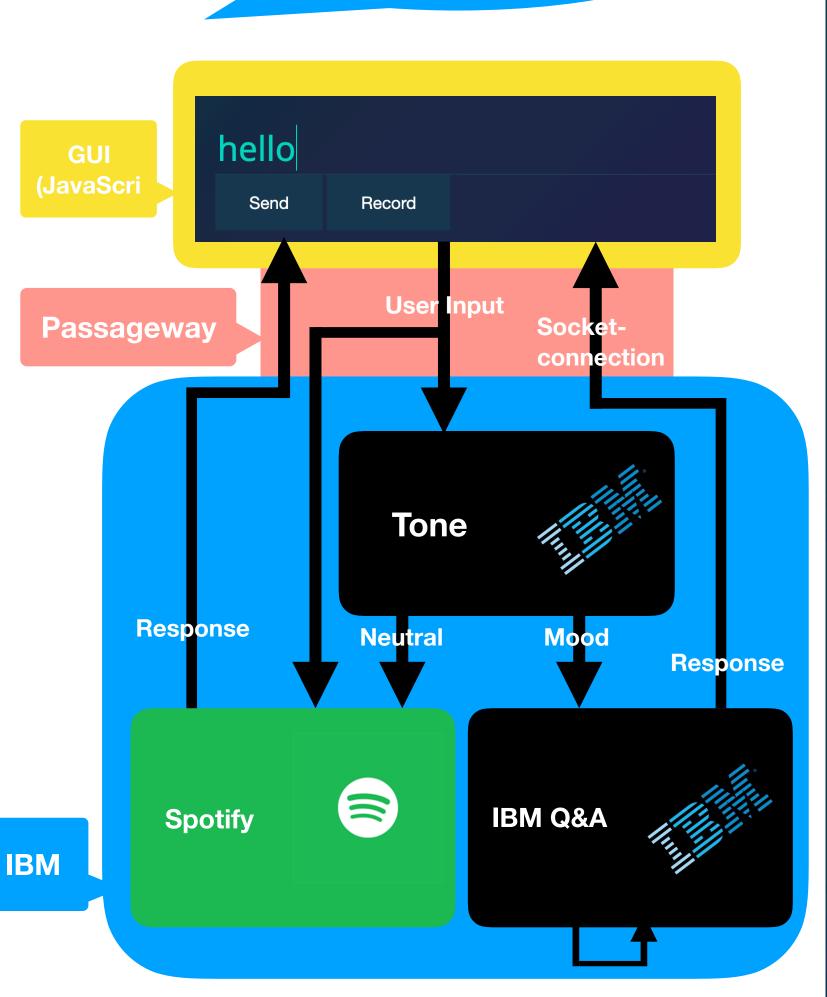
Speech2Text 'Google' vs 'IBM'

Speech2Text enables users have a convenient way to input. And Speech2Text of Google offers higher accuracy and javascript interface connection.

Spotify API VS Database

We use Spotify API instead of establishing a music database because Spotify can be viewed as an infinity database to provide any music we want. Moreover, database method requires long procedure of data loading from disks while Spotify provides fast search and can be embedded as a play window in our GUI.

Music Bot

GUI (JavaScri

hello

Send   Record

Passageway

User Input

Socket-connection

Response

Neutral

Mood

Response

Tone   IBM

Spotify

IBM Q&A   IBM

IBM

Demo

hello

Hello, how are you today? I am Music Bot.

I just broke up with my girl friend

Oh, sorry. Hope you have a better day tomorrow. You can type genre of music here are I will search music for you.

marshmello

Put Yo Hands Up
Marshmello

change to sad

I am sorry to hear about that. Tomorrow is a better day!! Come on!! Which kind of style of music do you like? e.g. You can type Jazz, Funk, hip-pop etc.

Jazz

We Three Kings
Kenny Newborn Quartet

Christmas Songs – We Three Kings Lyrics
[Verse 1: All]
We three kings of orient are
Bearing gifts we traverse afar
Field and fountain
Moor and mountain