Test Document

1.Intended Audience and Purpose

This document provides the testing plan and results, corresponding to the requirement from the user.

2. How to use the document

You may refer to the content section for the structure of the document, in which Sec. Testing Cases collect the unit and module test information from each part; Testing Plan shows the steps and expected results of the integration test; Results describes the real world data out of the test.

3. Testing case

In this section, each member proposes his testing cases on unit and module testing.

3.1 UI

	Description	Input	Expected output
1. register(request)	Register in the system	Username, password , email , (repeat) password	{'success': True, 'error': ''}
2. index(request)	To get into the index html	Username, password	{'success': True, 'error': ''}
3. recommend(request)	To recommend a music list	A list of music	A list of music

3.2 Algorithm

	Description	Input	Expected output
1.lst_dist(lst1, lst2)	calculate distance between 2 music lists	lst_dist(lst2music['伤感翻唱版集合'], lst2music['又是一个睡不着的夜晚'])	5.0
2.music_dist(music1, music2)	calculate the distance between 2 musics	music_dist('星河清梦', '缭星')	5.0
3.most_similar_lst(lst)	get the most similar music list	most_similar_lst(lst2music['刷题 看书 学习 工作 冥想'])	({'夏日喝汽水 lofi', '我去宇宙偷星星，放在夜里等你??', '浮生若梦', '银河赴约 - (网易云音乐助力高考自制曲目)', '你能来保護我的世界嘛', '等', '风的小径', '夜里失联', '这个深海是你的眼眸', '奇怪吗'}, 5.0)
4.most_similar_music(music)	get the most similar music	most_similar_music('无人之岛（翻自 任然）')	('好想好想（翻自 群星）', 5.0)
5.recommend(lst)	recommend according to music list	recommend({'呼吸','无人之岛（翻自任然）', '水星记', '像鱼', '大鱼 - (动画电影《大鱼海棠》印象曲)', '千千阙歌(Live)'})	{'永不失联的爱', '多远都要在一起','你的样子', '想い', '是想你的声音啊 - (你快听滴答滴)', '古诗中国', '心领神会', '你还好吗', '不爱我', '玻璃之情', '或是一首歌', '那个她', '秋海棠', '看见你的声音 - (电视剧《想见你》插曲)', '好想好想（翻自 群

			星）'}	

4. Testing plan

The test method mainly relies on inputting information to the interface, observing the interface response time, response results and other evaluation whether it meets the test expectation. The test is mainly functional test, including registration, login, logout, import song list, obtain recommended song list, display songs and other functions. Observe whether the test results meet the expected output and meet the user demand analysis, so as to evaluate the advantages and disadvantages of the recommendation system.

4.1 User wants to register the system

	Description	Input	Expected output	Result
register(request)	Register in the system	Username, password , email , (repeat) password	{'success': True, 'error': ''}	User registers successfully

4.2 User wants to login the system

	Description	Input	Expected output	Result
login(request)	Login in the system	Username, password	{'success': True, 'error': ''}	User logins successfully

4.3 User wants to logout the system

	Description	Input	Expected output	Result
logout(request)	logout the system	Command logout	{'success': True, 'error': ''}	User logouts successfully

4.4 User wants to inform the song list

	Description	Input	Expected output	Result
import(request)	To recommend a music list	A list of music	{'success': True, 'error': ''}	User imports the song list successfully

4.5 User wants to get the recommended song list

	Description	Input	Except output	Result
recommend(lst)	recommend according to music list	recommend({'呼吸', '无人之岛（翻自 任然）', '水星记', '像鱼', '大鱼 -(动画电影《大鱼海棠》印象曲)', '千千阙歌(Live)'})	{'永不失联的爱', '多远都要在一起', '你的样子', '想い', '是想你的声音啊 - (你快听滴答滴)', '古诗中国', '心领神会', '你还好吗', '不爱我', '玻璃之情', '或是一首歌', '那个她', '秋海棠	The system gets the recommended song list successfully

			', '看见你的声音 - (电视剧《想见你》插曲)', '好想好想（翻自 群星）'}	