Music Mobile App
Vision Document

Version <1.1>

Revision History

Date	Version	Description	Author
08/11/2022	1.0	Target users Environments	Vũ Đình Duy Khánh
08/11/2022	1.0	Environments Features	Trần Thị Tuyết Nhung
25/11/2022	1.1	add non-functional requirement	Vũ Đình Duy Khánh & Trần Thị Tuyết Nhung

Music mobile app	Version: <1.1>
Vision (Small Project)	Date: <25/11/2022>
<document identifier>	

Table of Contents

Vision (Small Project)

1. Introduction

1.1 Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the Music Mobile App. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the Music Mobile App fulfills these needs are detailed in the use-case and supplementary specifications.
The introduction of the Vision document provides an overview of the entire document. It includes the purpose and references of this Vision document.

1.2 Scope

This Vision Document applies to the Intro to Software Engineering course registration system, which will be developed by the Group 11. The It department will develop this client-server system to interface with the existing course catalog database.
The Music Mobile App will enable user to listen music online and offline.
The Music Mobile App allows artists to upload their song and allow other user to listen it.

1.3 References

PA's document, slides of teacher, PA's video.

2. Positioning

2.1 Problem Statement

The problem of	Our team decided to develop a music mobile app. The software like zingmp3 or spotify allows people to listen to amazing songs and download them. Artists, musicians and singers can upload their music product to servers that allow everyone to listen.
affects	Artists, Listeners
the impact of which is	- User's listening experience - Popularity of the song
a successful solution would be	- Musicians can post music - Users can listen to music - Vip users can download music and listen offline

2.2 Product Position Statement

For	Music listeners, Musicians
Who	Listen to music, Compose music
The (product name)	It is a Mobile Music player
That	- Listen to music online - Download music to listen offline - Upload own song
Unlike	Music apps contain lots of ads Music apps don't allow emerging musicians to post music
Our product	Connect ALL music listeners with ALL musicians under the management of administrator

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Teacher	- Nguyễn Minh Huy	Mentor
Personal Assistant	- Nguyễn Lê Hoàng Dũng - Hồ Tuấn Thanh	Supporter for development team
Development team	Group 11's member	Project responsibility. Project progress tracking
User try	Order group's members	Ensures that the system will meet the needs of user

3.2 User Summary

Name	Description	Stakeholder
Music listeners	People who want to listen to music online	Self-represented
Vip User	People who want to listen to music online and download song for offline	Self-represented
Musician	Musician who want to upload their song	Self-represented

Administrator	Song curators and musicians (no nonsense uploading)	Self-represented

3.3 User Environment

Unique environmental constraints: all user, all platforms with internet
Platforms are in use today : Android
Future platforms : Windows, Mac-OS, Web, IOS
Marketing subsequent releases to all music listeners who want to listen to music, all musicians who want to upload their song

3.4 Summary of Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Free music listeners	Medium	Music listening experience is interrupted	Too many ads are inserted when changing new songs for free users	Free users won't have to watch or listen to any ads
New musicians	High	Can't bring their song to people	They can't upload their songs when they're not well known	All musicians can upload music to the system as long as it's not spam

3.5 Alternatives and Competition

Other music player app be like ZingMp3, Spotify which had many users before, many songs before

4. Product Overview

4.1 Product Perspective

Server is windows application
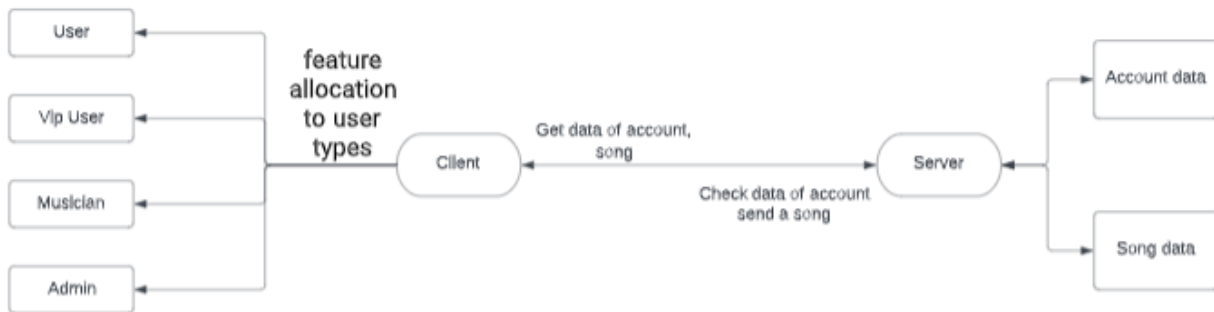Client is Android 9.0 or newer, future : windows, IOS, web, Mac-OS
The client will perform the account and password input and transmit the entered information to the server to be checked
The client will allocate rights to use features for certain types of users
When listening to music, the client will ask the server to send information about that song

Music mobile app	Version:	<1.1>
Vision (Small Project)	Date: <25/11/2022>	
<document identifier>		

to play

4.2 Assumptions and Dependencies

Key features: list the key feature for the app.

Feature	Description	Note
Play music	Users can listen to a large amount of songs in the app.	
Download songs	Users can download their favorite songs from the app to their phones	Only VIP users
Upload songs	Users can upload their own music products (audio files) to the app's server.	Only artists
Music playlist	Users can make playlists of their favorite songs.	
Rate songs	Users can rate points to the songs that they have listen and every one can see that point	
Recommend songs	We will recommend the most that have been listened to of week, of month and of all time or ones that have much good reactions	
Information of the song	- Name of the song. - Performers, songwriter, … - Kind of music. - Comment,rate, …	
Search	Find the song by name, by artists,…	
Management	Manage accounts (delete and upgrade accounts) and ban unacceptable accounts.	Only admins
Have Account (Register & log in)	The app has different types of accounts. Recently, there are 4 types of accounts.	

Actors: list the types user join the app

Actors	Description	Note
Guest	Only be able to play songs.	
Common user	- Can play songs and comment below the songs. - Rate the songs and make playlists.	
Vip user	Like common users but they can download the songs.	

Artist	Can upload songs	
Admin	Manage accounts and ban unacceptable accounts	

5.   Product Features

5.1   Login

Connect to the server, log in to your personal account to use personal functions such as downloading music, uploading music, creating playlists

5.2   Play music

Play the opened music

5.3   Back-ward

Back to previous song

5.4   For-ward

Go to the next song

5.5   Rate song

Rate the song from 1 to 5 stars

5.6   Search song

Search for your favorite song by 1 word in the song title or both the song title or the musician's name

5.7   Music playlist

Create a playlist of favorite songs

5.8   Download song

Download music to your device to listen to offline (vip users only)

5.9   Upload songs

Upload your own music for many people to listen (musicians only)

5.10   Management

Manage musicians, block spam musicians, spam songs

6.   Non-Functional Requirements

6.1   Applicable standards

Android 9.0 or newer

6.2   About music player software

- Copyrighted music requires a license

- The song must be played smoothly without interruption

- Server system errors must be fixed quickly when the program officially runs

- The application should able to play one single track at a time.

- The application should be able to automatically pause when there is any incoming call or message.