ChillnFree

Vision Document

Version <0.2>

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 20/10/2021 | 0.1 | * Initial document. * Fill all the sections with information that we have at this time. | Võ Hoàng Bảo Duy  Trần Ngọc Lam  Lê Minh Sĩ  Đặng Kiệt Hào  Lê Quốc Trọng |
| 17/11/2021 | 0.2 | * Detail product functional and non-functional requirements. * Edit some sections. | Trần Ngọc Lam |
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Vision (Small Project)

# Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the **Listening to Music System.** It focuses on the capabilities needed by the stakeholders and the target users, why these needs exist. The details of how the **Listening to Music System** fulfills these needs are detailed in the use-case and supplementary specifications.

# Positioning

## Problem Statement

| The problem of | Pressure, stress, lack of concentration in study and work. |
| --- | --- |
| affects | Everyone specially students and office workers |
| the impact of which is | Not in the mood to work, study, work down, reduce efficiency, thus we need a music listening platform |
| a successful solution would be | Improve mood, reduce stress, feel comfortable while working and studying |

## Product Position Statement

| For | Students and office workers |
| --- | --- |
| Who | Increase efficiency, productivity of work and study |
| The (product name) | is a Listening to Music System |
| That | Listen to music with the Pomodoro timer to help you work more efficiently, improve planning |
| Unlike | Other currently available systems (Spotify, SoundCloud,...) do not support time management features for studying, working or resting as well as interruptions by ads |
| Our product | Have a Pomodoro timer and some focus music for working and studying |

# Stakeholder and User Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Teachers | All teachers of the course | Teachers who instruct and operate the progress of the project will give a rating and score at the end of the project. |
| Members | All members of a defined group | Members must build each part of a product such as designing systems and functions, Web UI, testing and giving feedback, making reports, finding bugs and enhancing the product... |
| Project Manager | A member of group | This is a person who plans, organizes, and distributes resources, establishes priorities, coordinates contacts with other team members and the teacher, and keeps the project team on track. |
| Business Analyst | Members of group | This is a person who collaborates with the teacher (TA) to acquire information about the student's requirements and feedback. |
| Market Analyst | Members of group | This is the person who ensures that the product features will follow the market trends |

## User Summary

| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| --- | --- | --- | --- |
| Student | End user of the system | Listen to music, download, upload, manage account, receive notification when a new music is published, start timer, stop timer, search music, create playlist, loved music | Self |
| Officer | End user of the system | Self |
| Artist | End user of the system | Self |

## User Environment

The users must install a web browser (Chrome, Edge, Firefox...) supporting our web application. Besides it, users need to connect to a reliable internet to access the database server. Additionally, every operating system (Windows, Linux, MacOS...) is supported for our web application.

## Alternatives and Competition

ChillnFree is easy to navigate and a great website to listen to and explore all things music. You can create new playlists and explore other friends' music. We make it an interactive experience with the ability to allow users to set the timer based on the Pomodoro method as well as choose some focus music to listen to while working or studying.

# Product Features

| **No.** | **Feature** | **Description** | **Priority** |
| --- | --- | --- | --- |
| 1 | Sign in and Sign up | Users need to log in to use related functions such as create playlists, comment, subscribe to artists, view music history and so on. Users can create an account, change password and edit profile. | **High** |
| 2 | Listen to music | This function has options of playing, pausing, shuffling, repeating, skipping backward/forward and so on. | **High** |
| 3 | Pomodoro timer | This function allows users to set the timer based on the Pomodoro method as well as choose some focus music to listen to while working or studying. | **High** |
| 4 | Create/ publish/ playlist | Users can create their own playlists and public it to share with everyone or keep it private. | **Medium** |
| 5 | Upload music products | Artists can upload their music products to the platform. | **Medium** |
| 6 | Download Music products | The system shall allow users to download songs in the allowed categories. | **Low** |
| 7 | Search | Users can search songs by name or filter by genre, artists,... to narrow down the result. | **High** |
| 8 | Rate music | Users can quickly express love or hate for a song through the “upvote/downvote” button. | **Low** |
| 9 | Comment | Users can leave comments below songs about their thoughts or opinions. | **Low** |
| 10 | User notification of new music | Users can receive notification from their following artists for the latest updates. | **Low** |
| 11 | Add music to the playlist | Users can add any songs they want to their playlists. | **Medium** |
| 12 | Report/Contact to the support team | Users can report/ contact the support team when there are any errors during use to improve the user experience. | **Medium** |
| 13 | Edit profile | Users can update their profile such as display name, date of birth, sex and so on. | **High** |
| 14 | Follow artists. | Users can follow other artists to receive notification about their latest update. | **Low** |
| 15 | Manage user’s account | Administrators can delete/restrict any user’s accounts that are found to be in violation of the website's terms. | **Medium** |
| 16 | Manage music library | Administrators can add a new song to the website music library or delete any songs that are found to have inappropriate words or promote illegal activities. | **Medium** |
| 17 | Manage report/contact from users | Administrators can view all reports/contacts from users and send the response to users. | **Medium** |

# Non-Functional Requirements

* High security (encoding, hashing, ....) to protect the information of users.
* Optimize algorithms in hardware (store or access data quickly to respond to users immediately); load data below under 1 second; support over 150 concurrent users.
* Interface that users can easily use.
* An implementation has to be an organized MVC (Model - View - Controller) model.