SpUStify

Software Development Plan

Version 1.0

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 16/6/2023 | 1.0 | Initial version | Dương Trường Bình |
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Software Development Plan

# 

# Introduction

The purpose of this Software Development Plan is to define the development activities in terms of the phases and iterations required for implementing a website.

# Project Overview

## Project Purpose, Scope, and Objectives

**Purpose**: The desire is to assist individuals with a passion for music by providing them with a music platform, free music downloads, and promoting amateur artists and musicians to share their works with everyone.

**Objectives**: Developing a comprehensive and fully functional website to assist music love

**Scope**: Currently, the target user are students of VNUHCM University of Science

Deliverables the project is expected to deliver: The functions of a website:

* Song leaderboard by likes, listens
* Show the favorite songs and playlists of each account
* Show the listening history of each account
* Playlist and song recommendations
* Statistics of visits and account creations and song reviews

## Assumptions and Constraints

* Project has a fixed schedule of 12 weeks
* Zero-budget project
* Project has 5 people, there will be no more people added during the project

## Project Deliverables

The following deliverables will be produced during the project:

Usecase Model

Usecase Specifications

User Interface Prototype

Data Model

Database Design

Software Architecture Document

Test Cases

Test Report

# Project Organization

## Organizational Structure



## Roles and Responsibilities

| **Person** | **Role** |
| --- | --- |
| Dương Trường Bình  Phạm Văn Minh  Trần Đức Hoàng  Nguyễn Thị Phương Trinh  Nguyễn Tuấn Thanh | Project Manager, Developer Leader, Architecture, Tester  Tester Leader, Designer, Developer  BA Leader, Designer, Tester, Developer  Designer Leader, Tester, Developer, Architecture  Architecture Leader, Tester, Developer, BA |

# Management Process

## Project Estimates

## Project Plan

### Phase and Iteration Plan

| **Phase** | **Overall Objectives** | **No. of Iterations** | **Starting Date** | **Ending Date** |
| --- | --- | --- | --- | --- |
| Inception | The Inception Phase will develop the product requirements and establish the business case for the. The major use cases will be developed as well as the high-level Project Plan. | 1 (Sprint 1) | 12/06/2023 | 24/06/2023 |
| Elaboration | The Elaboration Phase will analyze the requirements and will develop the architectural prototype. At the completion of the Elaboration Phase all use cases selected for Release 1.0 will have completed analysis and design. In addition, the high-risk use cases for Release 2.0 will have been analyzed and designed. The architectural prototype will test the feasibility and performance of the architecture that is required for Release 1.0. The Architectural Prototype Milestone marks the end of the Elaboration Phase. This prototype signifies verification of the major architectural components that comprise the R1.0 Release. | 2 (Sprint 2, 3) | 26/06/2023 | 22/07/2023 |
| Construction | During the Construction Phase, remaining use cases will be analyzed and designed. The Beta version for Release 1.0 will be developed and distributed for evaluation. The implementation and test activities to support the R1.0 and R2.0 releases will be completed. The R2.0 Operational Capability Milestone marks the end of the Construction Phase. Release 2.0 software is ready for packaging. | 3 (Sprint 4, 5, 6) | 24/07/2023 | 02/09/2023 |

#### 

#### Iteration Objectives

| **Phase** | **Iteration** | **Description** | **Associated Milestones** | **Risks Addressed** |
| --- | --- | --- | --- | --- |
| Inception | Preliminary Iteration | Defines business model, product requirements, project plan, and business case. | Business Case Review | Clarifies user requirements upfront.  Develop realistic project plans and scope.  Determines feasibility of the project from a business point of view |
| Elaboration | C1 Iteration - Use-case model | Completes analysis & design for all use cases. | Use-case specifications | Missing essential use cases.  Incorrect actor identification  Unrealistic or unfeasible use cases |
| C2 Iteration - Develop Architectural Prototype | Develops the architectural prototype.  Define detail the class diagram with all available information you have. | Architectural Prototype | Architectural issues clarified.  Technical risks mitigated. |
| Construction | C1 Iteration – Revised Architectural Prototype | Complete the architectural prototype.  Sketchs the UI for the main screen and at least 2 screens for the key scenarios. | Completed Architectural Prototype | Early prototype for user review. |
| C2 Iteration – Develop initial Release | Implement and test remaining use cases  Incorporate feedback to change use cases  Develops the initial system. | Software | Software fully reviewed by user community.  Product quality should be high.  Defects minimized.  Cost of quality reduced. |
| C2 Iteration – Develop full Release | Incorporate enhancements and defects from initial release.  Develops the full system. | Software | Quick release addresses customer satisfaction.  All key functionality provided in System by full Release. |

### [Biểu đồ Gantt](https://docs.google.com/spreadsheets/d/1M-LPKZYXRZjlSHe-3TUMmWe0F3tOYs-9KtKzgL-aRNs/edit?usp=sharing)

### Releases

The releases will be in Sprint 5, and Sprint 6, currently team estimates about 4 to 8 releases

### Project Schedule

<https://trello.com/b/BxKp2A1P>

## Project Monitoring and Control

### Reporting

Provide approaches to reporting project status. Approaches include

* Weekly meeting
* Review Sprint Meeting & Planning Sprint Meeting
* Weekly status report
* Informal chats

### Risk Management

| Risk ID | Risk Description | Probability | Impact | Priority | Mitigation Strategy or Contingency Plan |
| --- | --- | --- | --- | --- | --- |
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### Configuration Management

Determine tools to be used for storage and sharing source code and files.

* Google Drive for storing and sharing documents and files.
* GitHub for managing source code and related files.