
Group 05 - AlgoRhythm

CANARY MUSIC STREAMING SERVICE
Iteration Test Plan

Version 1.1

Canary Music Streaming Service	Version: 1.1
Iteration Test Plan	Date: 09/12/2024

Revision History

Date	Version	Description	Author
08/12/2024	1.0	Write the introduction and the staffing section	Đoàn Đặng Phương Nam
09/12/2024	1.1	Write target items and tools, requirements and support tools	Trần Anh Minh Đoàn Đặng Phương Nam

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Iteration Test Plan

1. Introduction

1.1 Purpose

The primary purpose of this **Iteration Test Plan** document is to consolidate all necessary information to monitor and manage the quality of the testing process for the "**Canary Music Streaming Service**" project.

1.2 Scope

This document outlines the test cases for the core features of the "**Canary Music Streaming Service**", including song streaming, user song uploads, and essential account functionalities. It also details the strategies, procedures, and resources required to ensure the system's functional and non-functional requirements are met. The testing process will focus on validating the system's reliability, usability, and performance to support a seamless user experience.

1.3 Related users

The document is intended for use by all stakeholders involved in the project, including developers, testers, project managers, and quality assurance teams. It serves as a collaborative guide to ensure that all team members understand their roles and responsibilities within the testing process.

1.4 Key features

The key features of this **Iteration Test Plan** document include:

- **Target Test Items:** A comprehensive list of software features and areas to be tested, including performance, usability, and security, to ensure a robust and user-friendly application.
- **Environmental Needs:** Detailed descriptions of the required hardware, software, and productivity tools for the test environment, ensuring consistency and reliability during the testing process.
- **Responsibilities, Staffing, and Training Needs:** Clear assignment of roles and responsibilities within the testing team, along with any identified staffing assumptions and training needs to equip team members.

These features collectively provide a roadmap for conducting thorough and effective testing, ensuring the delivery of a high-quality product that meets user expectations and project objectives.

2. Target Test Items

In this process testing, we will test some key features of this software, which are:

- **Listen to songs:** The users can play the songs via the music player.
- **Find:** A user wants to browse through the list of songs via searching and filtering.
- **Create playlists:** The users can gather songs and create their own playlists.
- **Upload songs:** Users can upload their songs to share them with the community.
- **Resolve requests:** Admins are able to resolve the requests sent by other users.

All the above testing features will use functional and usability testing, which are useful testing techniques for our application.

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3. Environmental Needs

3.1 Hardware Requirements

- Network: the test device must be connected to the Internet.
- Resolution: the computers should have FHD screen resolution, with the scale be set to 125%
- RAM: the computer should have more than 4GB of ram
- ...

3.2 Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Software Name	Purpose	Version	Type and Other Notes
Zen Browser	Browser for testing	1.0.1.a.22-1	Internet Browser
Chrome	Browser for testing	134	Internet Browser
Edge	Browser for testing	131	Internet Browser
Windows 10, 64-bit	Checking the compatibility of the software	21H1	Operating System
Windows 11, 64-bit	Checking the compatibility of the software	24H2	Operating System
Arch Linux	Checking the compatibility of the software	6.12.3-arch1-1	Operating System

3.3 Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Writing documents	Google Docs	Google	Web-version
Test cases and test result management	Google Sheet	Google	Web-version
Storing documents and reports	Google Drive	Google	Web-version
Discussion and communication	Messenger, Discord	Meta, Discord Inc.	Web, Mobile
Document storing for submission	Github	Microsoft	Web-version
Website builder, database, deployment	Wix	Wix.com	Web-version
Designing pages and interactions	Figma	Adobe	Web-version
Diagram designs	Draw.io	draw.io	Web-version

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4. Responsibilities, Staffing, and Training Needs

4.1 People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager	Bùi Nguyễn Lan Vy	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> • Planning and logistics • Agree mission • Identify motivators • Acquire appropriate resources • Present management reporting • Advocate the interests of test • Evaluate effectiveness of test effort
Tester	Trần Anh Minh Đoàn Đặng Phương Nam Bùi Nguyễn Lan Vy	Implements and executes the tests. Responsibilities include: <ul style="list-style-type: none"> • Implement tests and test suites • Execute test suites • Log results • Analyze and recover from test failures • Document incidents

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Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test System Administrator	Đoàn Đặng Phương Nam Bùi Nguyễn Lan Vy	Ensures test environment and assets are managed and maintained. Responsibilities include: <ul style="list-style-type: none"> • Administer test management system • Install and support access to and recovery of test environment configurations and test labs
Database Administrator	Trần Anh Minh	Ensure test data (database) environment and assets are managed and maintained. Responsibility: <ul style="list-style-type: none"> • Administer test data (database)