
Group02

**Beatify
Master Test Plan**

Version 1.0

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

Revision History

Date	Version	Description	Author
23/12/2024	1.0	This document details the test plan, covering target test items, environmental needs, roles, responsibilities, and key features for testing. It also specifies hardware, software, and tools required to ensure an efficient testing process.	<ul style="list-style-type: none">- Phạm Hà Hiếu- Lê Gia Huy- Võ Ngọc Khoa- Nguyễn Duy Bảo- Trần Trung Hiếu

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

Table of Contents

1. Introduction	4
2. Target Test Items	4
3. Environmental Needs	5
3.1 Hardware Requirements	5
3.2 Software in the Test Environment	5
3.3 Productivity and Support Tools	6
4. Responsibilities, Staffing, and Training Needs	7
4.1 People and Roles	7
This table shows the staffing assumptions for the test effort.	7
5. Features needed for testing.	7

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

Master Test Plan

1. Introduction

This document outlines the test plan for the Beatify project, aimed at ensuring that the software meets its specifications and fulfills user requirements.

Objectives:

- Identify Testing Scope: Determine which components or functionalities of the Beatify software need to be tested.
- Hardware Requirements: Specify the hardware necessary for conducting the tests.
- Testing Strategies: Propose and describe the testing strategies to be applied.
- Testing Tools: List the tools required for effective software testing.

Content: This document provides a comprehensive plan for initiating and supervising testing activities. It details the testing scope, required hardware, proposed testing methodologies, and the tools necessary for carrying out these tests.

Intended Users:

- Testing Team: Responsible for implementing and supervising the testing process.
- Developers: To understand the testing scope and requirements.
- User Testers: To prepare for and conduct user acceptance testing.
- Stakeholders: To review and approve the testing plan.

This document serves as a guide for all parties involved in the testing phase, ensuring a structured and effective approach to verifying the Beatify software.

2. Target Test Items

Performance Testing:

- System Load Handling: Evaluate how the software performs under various load conditions, including peak usage times.
- Response Time: Measure the time it takes for the software to respond to user inputs and requests.
- Scalability: Test the software's ability to scale efficiently as user demand increases.

Usability Testing:

- User Interface (UI): Assess the ease of navigation, clarity, and intuitiveness of the interface.
- User Experience (UX): Gather feedback on user satisfaction, overall experience, and the intuitiveness of the software.
- Accessibility: Verify that the software is accessible to users with different abilities, adhering to accessibility standards.

Security Testing:

- Data Protection: Test the software's ability to protect user data, including encryption and secure data storage.
- Authentication and Authorization: Ensure that user authentication processes are secure and that access control is properly implemented.
- Vulnerability Assessment: Identify and assess potential security vulnerabilities within the software.

Functional Testing:

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

- Core Features: Verify that all core features of the Beatify application function as intended.
- Compatibility: Test the software across different devices, operating systems, and browsers to ensure compatibility.
- Error Handling: Check how the software manages errors and whether it provides informative feedback to users.

Regression Testing:

- Feature Updates: After any updates or modifications, test existing functionalities to ensure they continue to work as expected.
- Bug Fixes: Verify that previously identified and resolved bugs do not reoccur.

3. Environmental Needs

3.1 Hardware Requirements

The following hardware components are necessary to run and test the Beatify application:

Device Type	Component	Specification
Desktop Computers	Processor	Intel Core i3 or equivalent
	RAM	4 GB minimum
	Storage	1GB free HDD or SSD
	Graphics Card	Integrated GPU
Laptops	Processor	Intel Core i5 or equivalent
	RAM	8 GB minimum
	Storage	1GB free HDD or SSD
	Graphics Card	Integrated GPU
Network Equipment	Router	Standard router with 802.11n or better
	Ethernet Switch	Standard 10/100/1000 Mbps switch

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
Firefox	Internet Browser	Latest Stable	Web testing on Windows
Google Chrome	Internet Browser	Latest Stable	Web testing on Windows

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

Software Name	Purpose	Version	Type and Other Notes
Windows 11	Operating System	23H2	Primary OS for testing on Windows
Visual Studio Code	IDE	1.92 or newer	IDE for development
Node.js	JavaScript Runtime	18.x (LTS)	Backend testing for Node.js
Postman	API Testing Tool	Latest Stable	Testing API endpoints

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
Defect Tracking	Google Sheet	Google	web version
Source code management and Version control	Github	Microsoft	web version
Document editor	Google Docs	Google	web
Document management	Google Drive	Google	web
Online Meeting	Discord	Discord	web
Project Management Tool	Trello	Atlassian	web

Beatify	Version: 1.0
Master Test Plan	Date: 22/12/2024

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	Lê Gia Huy	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	Phạm Hà Hiếu Nguyễn Duy Bảo Võ Ngọc Khoa Trần Trung Hiếu	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
Test System Administrator		Ensures the 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

5. Features needed for testing.

- Login
- Subscribe Premium
- Add Song
- Search song and artist
- Music Playback