**TEST PLAN**

Project Name: Spotify Web Application

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# Introduction

The aim of the document is to give an overview of the testing approach, strategies, and scope for the Spotify Music app. This document includes details like the scope of the project, objectives, test schedule and resource allocations, test deliverables, and reports.

AUT: **https://open.spotify.com/**

**Objectives**

* Validate the functionality, usability, and performance of the Spotify app.
* Ensure that the app meets the specified requirements and user expectations.
* Identify and mitigate potential risks to ensure a smooth user experience.

# Scope

This test plan covers only functional testing, performance testing, and compatibility testing of the Spotify Music application across different web browsers

**Testing Features**

* Login
* Signup
* Search
* Browse podcasts
* Choose language
* Popular Artists
* Popular albums
* Popular Radio
* Featured charts
* Explore Premium
* Install app
* What’s New
* Recently played
* Recommended for you
* Fresh New Music
* Create Playlist

## Testing Types

* Functional Testing
* Performance Testing
* Compatibility Testing

## Testing Methodologies

* Black box Testing
* White box Testing
* Regression Testing
* User Acceptance Testing

## Testing Environment

* UAT
* Pre-Prod

## Operating System

* Windows 11 and above
* Browsers: [Chrome, Microsoft Edge, Firefox]
* Testing Tools: [selenium, Postman, Jira, Selenium, Microsoft Teams]

# Roles/Responsibilities

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Responsibilities** |
| Pooja Yadav | Test Manager | * Approve the overall test plan * Manage the overall budget and resources * Monitor Project Progress |
| Vaishnavi | Test Lead | * Develop and maintain the test plan * Approve the test cases * Assign tasks, set priorities, and provide support to team members * Review test results and give feedback to team members |
| Deepak Kumar | Test Engineer | * Understand customer requirements * Write Test scenarios & Test cases * Executing the Test * Defect tracking and reporting |
| Kunika kokate | Test Engineer | * Configuring and setting up test environment. * Management of Automation tools. * Executing Regression Test cases * Understand areas for regression testing feasibility. * Responsible for writing automation scripts. |

# Test Schedule

Following is the test schedule planned for the project

|  |  |
| --- | --- |
| **Task** | **Time Duration** |
| **Test Plan Creation** | 13 Nov 2024 |
| **Test Scenario Creation** | 13 Nov 2024 |
| **Test Case Creation** | 13 Nov - 14 Nov 2024 |
| **Test Case Execution** | 14 Nov -15 Nov 2024 |
| **Summary Report Submission** | 17 Nov 2024 |

# Test Deliverables

The following are to be delivered to the client:

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverables** | **Description** | **Responsible Owner** | **Target Completion**  **Date** |
| **Test Plan** | Outlines the testing approach, strategies, and scope for the Spotify music player app | Masai | 13 Nov 2024 |
| **Test Cases** | Test Cases created for functional testing, performance testing, and compatibility testing. | Masai | 14 Nov 2024 |
| **Defect Reports** | Detailed description of the defects identified in different versions of the application | Masai | 15 Nov 2024 |

**Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of the Software Testing Life Cycle:

## Requirement Analysis Entry Criteria:

Once the testing team receives the Requirements documents and uses documents of the project. Includes what functions need to be tested and how the software should behave.

## Exit Criteria:

The testing team should thoroughly explore and understand each requirement listed in the documents. Any doubts or uncertainties regarding the requirements should be addressed and clarified to ensure that the testing team has a clear understanding of what needs to be tested and how it should behave.

## Test Planning Entry Criteria:

The planning phase begins once the project plan is approved and detailed requirements are available.

## Exit Criteria:

The phase concludes with the approval of the test plan document by the Client (Spotify).

## Test Designing Entry Criteria:

The design phase starts after the test plan is approved. It requires detailed functional and non-functional requirements and access to design tools and environments.

## Exit Criteria:

The phase ends when all Test Cases and Test Scenarios are reviewed and approved.

## Test Execution Phase Entry Criteria:

Execution starts when Test Cases and Test Scenarios are ready, and the test environment is set up. Test data must be prepared and validated, and the test team must be trained.

## Exit Criteria:

Test Case Reports, Defect Reports are ready.

## Test Closure Entry Criteria:

Test Case Reports, Defect Reports are ready.

**Exit Criteria:** It concludes with the preparation and review of the test summary reports.

# Tools

The following are the list of Tools we will be using in this Project:

* X mind map Tool
* Jira - Project management tool
* Zephyr- Test Management
* Microsoft Teams - collaboration
* Cypress- Web Automation

# Risks and Mitigation Plans

The following are the list of risks possible and the ways to mitigate them

|  |  |
| --- | --- |
| **Risk** | **Mitigation plans** |
| **Lack of Automation Testers** | Backup Resource Planning |
| **No detailed Requirements are available** | Subject matter experts available for a deep understanding of functionalities |

# Approvals

Masai will send different types of documents for Client Approval like below:

* Test Plan
* Test Scenarios
* Reports

Testing will only continue to the next steps once these approvals are done.