TEST PLAN

MyAnimeList Application

Village88 QA Track Capstone

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VERSION HISTORY

Version	Change Date	Author	Description
1.0	10.11.2022	Louise	First Draft
1.1	10.12.2022	Louise	First Revision

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1 INTRODUCTION

1.1 PURPOSE

The test plan is designed to describe the scope, the approach and overall framework that will drive the testing of the MyAnimeList website application.

The document introduces:

- Test Scope: rules the test will be based on, including the scope of testing (e.g. features to be tested, features not to be tested).
- Test Objective: states the overall goal and objectives of the test execution.
- Test Methodology: describes how the test will be performed (e.g. test types, entry / exit criteria, suspension criteria).
- Test Deliverables: lists all the documents and other documents that must be developed and maintained in support of the testing effort.
- Environmental Needs: describes the test tools used to execute test cases and the environment set up for testing.
- Test Management: the process to handle the logistics of the test, the scheduling and the risks and issues associated with the plan.

1.2 PROJECT OVERVIEW

MyAnimeList, often abbreviated as MAL, is the largest anime and manga database in the world that facilitates finding users who share similar tastes and provides them a list-like system to organize and score anime and manga.

MyAnimeList also provides access to a free API (Application Programming Interface) that can be used to programmatically interact with several aspects of the website. Likewise, it can be used to build both hobbyist and commercial applications.

2 TEST SCOPE

2.1 IN SCOPE

The following modules will be tested:

MODULE NAME	DESCRIPTION
Sign Up	Allows new users to gain access to the application by initiating the registration process.
Login	Allows users to gain access to the application by entering their username and password.
Logout	Allows users to end access to the application.
Search bar	Allows users to search for specific content on the application.

The following API will be tested:

MODULE NAME	DESCRIPTION	ENDPOINT
Anime	Get anime list	/anime
	Get anime details	/anime/{anime_id}
	Get anime ranking	/anime/ranking
	Get seasonal anime	/anime/season/{year}/{season}
User Animelist	Get user anime list	/users/{user_name}/animelist
Forum	Get forum boards	/forum/boards
	Get forum topic detail	/forum/topic/{topic_id}
	Get forum topics	/forum/topics
Manga	Get manga list	/manga
	Get manga details	/manga/{manga_id}
	Get manga ranking	/manga/ranking
User Mangalist	Get user manga list	/users/{user_name}/mangalist

2.2 OUT OF SCOPE

The following features will not be tested because these cannot be accessed:

- ✖ Hardware interfaces
- ✖ Database logical
- ✖ Website Security and Performance

The following API features will not be tested because the OAuth2 credentials could not be acquired:

- ✖ Get suggested anime
- ✖ Update my anime list status
- ✖ Delete my anime list item
- ✖ Update my manga list status
- ✖ Delete my manga list item
- ✖ Get my user information

3 TEST OBJECTIVE

The primary objective for the test plan is to produce documentation that describes how the tester will verify that the application works as intended.

The test plan also supports the following objectives:

- To verify that the functionality of MyAnimeList application that focuses on mimicking user actions works as expected.
- To verify that the API meets expectations for functionality, reliability and performance through validating each API request and response individually.
- To verify that the application can handle unwanted input and user behavior and remain stable despite invalid data.

4 TEST METHODOLOGY

4.1 TEST TYPES

4.1.1 API Testing:

Purpose: To ensure that the API created for the application functions correctly. Test cases can be found in a separate document with a detailed description of test scenarios.

4.1.2 Functional Testing:

Purpose: To check the functions of the application by feeding the input with values. Test cases can be found in a separate document with a detailed description of test scenarios.

4.1.3 Negative Testing:

Purpose: To ensure that the application and API can handle all the invalid, incorrect parameters gracefully. Test cases can be found in a separate document with a detailed description of test scenarios.

4.2 ENTRY CRITERIA

Testing can be started if the following conditions are met:

1   The necessary documentation is ready and approved:
    a.   Test Plan
    b.   Test Case
2   Set up of test environment and the test tools.

4.3 SUSPENSION CRITERIA

If the application under test is not functional or experiences access or authorization issues, then testing should be suspended.

4.4 EXIT CRITERIA

Testing is over if the following conditions are met:

1   Completion of the planned Test Case Execution.

2   Pass rate is 95%, achieving the pass rate is mandatory.

3   Test Summary Report is finished.

5 TEST DELIVERABLES

5.1 BEFORE TESTING PHASE

DELIVERABLE	RESPONSIBILITY	COMPLETION DATE
Test Plan	QA Trainee Tester	10/12/2022
Test Cases	QA Trainee Tester	10/13/2022

5.2 DURING THE TESTING

DELIVERABLE	RESPONSIBILITY	COMPLETION DATE
Test Tool	QA Trainee Tester	10/12/2022
Test Data	QA Trainee Tester	10/13/2022

5.3 AFTER TESTING PHASE

DELIVERABLE	RESPONSIBILITY	COMPLETION DATE
Test Report	QA Trainee Tester	10/15/2022

6 ENVIRONMENTAL NEEDS

6.1 TEST TOOLS

Tools required for testing the application are:

- Microsoft Excel for documenting test cases and test report.
- Selenium IDE for automating test efforts.
- Postman for API Testing.

6.2 TEST ENVIRONMENT

Testing will be done with the following environment:

- Windows 11

- Chrome

7 TEST MANAGEMENT

7.1 TASKS AND ASSIGNED RESPONSIBILITIES

TASK	RESPONSIBLE
Manage the whole project.	QA Trainee Tester
Develops test plan, test conditions, test cases, etc.	
Identifying appropriate test techniques/tools.	
Execute the tests, log results, report the defects.	
Implement test cases, test suite, etc.	
Builds and maintains test environment.	

7.2 SCHEDULE AND ESTIMATION

TASK	ESTIMATED EFFORT	START DATE	END DATE
Create Test Plan	3 h	10/11/2022	10/11/2022
Test Plan Adjustment	3 h	10/12/2022	10/12/2022
Create Test Case	8 h	10/12/2022	10/13/2022
Develop Automated Test Suits	4 h	10/13/2022	10/13/2022
Perform Test Execution	16 h	10/13/2022	10/14/2022
Analysis of Results	4 h	10/13/2022	10/14/2022
Test Report	4 h	10/15/2022	10/15/2022

7.3 RISK AND ISSUES

RISK	MITIGATION
Unrealistic scope and objectives.	Finalize test plan as early as possible.
Test case design and testing can be difficult.	Stabilize test plan as early as possible and develop contingency plans to cope.
Testing schedule is tight and cannot be extended beyond the deadline.	Set test priority for each of the test activity.
Unanticipated expansion in project scope.	Assess importance and focus on test priorities in case of changing scope.