TEST PLAN

<Resola QA challenge>

VERSION HISTORY

Version	Write by	Revision Date	Approved By	Approval Date	Outline
1.0	Quy Nguyen	25/04/2023			Test Plan create

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API Overview

The Test Plan is designed to prescribe the scope, approach, resouces, and schedule of all testing activities of the project Resola

1. TEST STRATEGY

1.1. Scope of Testing

The scope of this test plan includes testing of all the endpoints and methods defined in the API documentation

1.2. Test Type

In the project Resola, there are 3 types of testing should be conducted.

- Integration Testing (Individual software modules are combined and tested as a group)

- System Testing: Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

- API Testing(Mainly focus): Test all the APIs create for the software under tested

1.3. Risk and Issues

Risk	Mitigation
Team member lack the required skills for website testing.	Plan training course to skill up your members
The project schedule is too tight, it's hard to complete this project on time	Set Test Priority for each of the test activity.
A lack of cooperation negatively affects your employee's productivity	Encourage each team member in their task, and inspire them to greater efforts.
Wrong budget estimate and cost overruns	Establish the scope before beginning work, pay a lot of attention to project planning and constantly track and measure the progress

1.4. Test Logistics

1.4.1. Who will test?

The project should hire members as the tester

1.4.2. When will test occur?

The tester will start the test execution when all the following inputs are ready

- ➢ Software is available for testing
- ➢ Test Specification is created
- ➢ Test Environment is built
- ➢ Enough human resource for testing

2. TEST OBJECTIVE

The objective of this test plan is to verify the functionality via APIs and ensure that it meets the requirements and specifications defined in the API documentation.

3. TEST CRITERIA

3.1. Suspension Criteria

If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

3.2. Exit Criteria

Specifies the criteria that denote a successful completion of a test phase

- ➢ Run rate is mandatory to be 100% unless a clear reason is given.
- ➢ Pass rate is 80%, achieving the pass rate is mandatory.

4. RESOURCE PLANNING

4.1. System Resource

No.	Resources	Description
1.	Server	TDB
2.	Test tool	Develop a Test toll which can auto generate the test result to the predefined form and automated test execution
3.	Network	TBD
4.	Computer	TBD

4.2　Human Resource

1.	Test Manager	Manage the whole project
2.	Test member	Identifying and describing appropriate test techniques/tools/automation architecture Verify and access the Test Approach Execute the tests, log results, report the defects. Take in charge of product quality Check to confirm whether the testing process is meeting specified requirements
3.	Test Administrator	Builds up and ensures test environment and assets are managed and maintained Support tester to use the test environment for test execution

5.　SCHEDULE & ESTIMATION

5.1.　All project task and estimation

Task	Member	Estimate effort
Create the test cases	Tester(Auto, Manual)	TBD man-hour
Perform Test execution	Tester(Auto, Manual)	TBD man-hour
Test Report	Tester	TBD man-hour
Test Delivery	Test Manager	TBD man-hour
Total		TBD man-hour

5.2　Schedule to complete these tasks

TBD

6.   TEST DELIVERABLE

Test deliverable are proved as below

6.1.   Before testing phase

- ➢ Test plans document.
- ➢ Test case documents.
- ➢ Test Design specifications.

6.2.   During the testing

- ➢ Test Tool
- ➢ Simulators
- ➢ Test Data
- ➢ Test Trace-ability matrix
- ➢ Error logs and execution logs

6.3.   After the testing cycles is over

- ➢ Test results/reports
- ➢ Defect report
- ➢ Installation/Test procedures guidelines
- ➢ Release notes