TEST PLAN FOR

<<API AUTOMATION>>

ChangeLog

Version	Change Date	By	Description
V.0.0.1	09/06/2022	Rahat Ahmad	Test Plan Preparation

1 Introduction

This test plan describes the automated testing approach and overall framework that will drive the testing of the reqres.in. The document introduces:

- Test Strategy: rules the test will be based on, including the givens of the project (e.g.: start / end dates, objectives, assumptions); description of the process to set up a valid test (e.g.: entry / exit criteria, creation of test cases, specific tasks to perform, scheduling, data strategy).
- Execution Strategy: describes how the test will be performed and process to identify and report defects, and to fix and implement fixes.

1.1 Scope

1.1.1 In Scope

All the functional cases will be executed in the automation.

1.1.2 Out of Scope

Non Functional test execution will be out of the Scope of this test plan.

1.2 Quality Objective

The objective of the test is to verify that the functionality works according to the specifications. The final product of the test is-

- A production-ready software;
- A set of stable test scripts that can be reused for Functional and UAT test execution

1.3 Roles and Responsibilities

The following list defines in general terms the expectations related to the roles directly involved in the management, planning or execution of the test for the project-

Roles	Name	Responsibility
Project Manager		
Test Lead		
Business Analyst		
Development Lead		
Testing Team		
Development Team		
Technical Lead		

2 Test Methodology

2.1 Test Levels

Test Levels define the Types of Testing to be executed on the Application Under Test (AUT). The Testing Levels primarily depends on the scope of the project, time and budget constraints.

2.1.1 Functional Testing

PURPOSE: Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application.

Scope: The below excel sheet details about the scope of Functional test. Note: The scope is high level due to changes in the requirement.

TESTERS: Testing Team

TEST ACCEPTANCE CRITERIA:

1. Approved Functional Specification document, Use case documents must be available prior to start of Test design phase.
2. Test cases approved and signed-off prior to start of Test execution
3. Development completed, unit tested with pass status and results shared to Testing team to avoid duplicate defects
4. Test environment with application installed, configured and ready to use state

Test Deliverables:

Deliverable Name	Author	Reviewer
Test Plan	Test Lead	Project Manager/ Business Analyst's
Functional Test Case	Test Team	Business Analyst's Sign off
Daily/weekly status report	Test Team / Test Lead	Test Lead/ Project Manager
Test Closure report	Test Lead	Project Manager

2.2 Bug Triage

We are defining the bug resolution according to following criteria-

Severity	**Impact**
Critical	• This bug is critical enough to crash the system, cause file corruption, or cause potential data loss • It causes an abnormal return to the operating system (crash or a system failure message appears).

	• It causes the application to hang and requires re-booting the system.
High	• It causes a lack of vital program functionality with workaround.
Medium	• This Bug will degrade the quality of the System. However there is an intelligent workaround for achieving the desired functionality - for example through another screen. • This bug prevents other areas of the product from being tested. However other areas can be independently tested.
Low	• There is an insufficient or unclear error message, which has minimum impact on product use.
Cosmetic	• There is an insufficient or unclear error message that has no impact on product use.

2.3 Test Completeness

Test Completeness criteria are given below-

Exit Criteria	**Comment**
100% Test Scripts executed	
95% pass rate of Test Scripts	
No open Critical and High severity defects	
95% of Medium severity defects have been closed	
All remaining defects are either cancelled or documented as Change Requests for a future release	
All expected and actual results are captured and documented with the test script	

3 Test Deliverables

Here mention all the Test Artifacts that will be delivered during different phases of the testing lifecycle.

Here are the sample deliverables

- Test Plan
- Test Cases
- Requirement Traceability Matrix
- Bug Reports
- Test Strategy
- Test Metrics
- Customer Sign Off

4 Resource & Environment Needs

4.1 Testing Tools

Following tools are required-

- Test Rail for Test Case writing and defect identification
- JIRA for Bug Tracking tool
- Intellij IDE
- GIT
- PostMan

4.2 Test Environment

Following **software's** are required in addition to client-specific software.

- Windows 8 and above
- Linux
- RAM 8GB
- JAVA
- Internet Connectivity

5 Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
API	Application Program Interface