## Test Plan Identifier

ID: [HH1 – Team Aguacate] Rev.1.0

Type: Unit Test

Plan Performer: Nelian Colon

## References

* Project Proposal Document
* System Design Document

## Introduction

This test plan document will outline the procedure to perform unit testing and validation of the functionality of the individual software modules of Panda Code Reviews. This document contains information about testing procedure for the Repository Management Modules and Email Exchange System.

## Test Items

* Git Projects
  + Create Project
  + Get Projects
  + Get Project
  + Populate Project (Initialize Repository)
  + Add Project Member
  + Delete Project
* Git Repositories
  + Get Project Archive
  + Get Branches
  + Get Branch
  + Get Commits
  + Get Commit
  + Get Diff
  + List Repository Tree
  + Get Raw Blob
* Git Session
  + Login
* Git Users
  + Create User
  + Get Users
  + Get User
  + Modify User
  + Delete User
* Sendgrid
  + Send Email

## Risks Issues

Gitlab API describes functionalities that are not actually available. Workarounds were needed to be found in order to obtain the needed functionality. Some of the tests performed depend of the velocity of response of the server. If the computer or server is slow, a timeout on the testing framework can occur.

## Features to be tested

* Git Project
  + Create new Project
  + Fail to create a project (project already exists)
  + Get Projects
  + Get Project
  + Get Inexistent Project – Throw error (404)
  + Populate Project (Initialize Git Repository)
  + Add Project Member
  + Delete Project
  + Delete Inexistent Project – Throw error (404)
* Git Repository
  + Get Project Archive
  + Get Branches
  + Get Branch
  + Get Inexistent Branch – Throw error (404)
  + Get Commits
  + Get Commit
  + Get Diff
  + List Repository Tree
  + Get Raw Blob
* Git Session
  + Login
* Git Users
  + Create User
  + Fail to create user (already existed) – throw error (404)
  + Get Users
  + Get User
  + Modify User
  + Delete User
  + Fail getting deleted user – throw error (404)

## Features not to be tested

* ?

## Approach

### General Description

The tests will consist of calling the specific functions and compare the responses status codes and/or body with the ones expected. The procedure is included in the test procedure plan.

### Tools

* **Terminal:** Needed to run the test script
* **?:** ?

## Item Pass/Fail Criteria

For the tests to be performed in the following plan, a feature will ***pass*** the test ***only if the test results match the expected behavior***. If the test result differs from the expected result the test will be considered as ***failed***.

## Test Deliverables

This test plan will deliver a test procedure plan which will describe the test routine needed to test the individual modules which were described on this document.

## Remaining Test Tasks

For the remaining of the project, the remaining tasks will consist of system integration and integration testing of all modules.