## Test Plan Identifier

ID: [HH1 – Team Aguacate] Rev.1.0

Type: Unit Test

Plan Performer: Daniel Santiago

## 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 Team Aguacate’s Panda Code Reviews. This document contains information about testing procedure for the Backend Modules.

## Test Items

* Users
  + Create User
  + Get User
  + Login as user
  + Get created user
  + Get user with courses, assignments and submissions
  + Delete user
* Courses
  + Create Course
  + Get Course
  + Get Courses
  + Get Course with Users, assignments and submissions
  + Add student to course
  + Remove user from course
  + Delete course
* Assignments
  + Create Assignment
  + Get Assignment
  + Get Assignments
  + Get assignment with submissions
  + Add test case
  + Delete test case
  + Delete Assignment
* Submissions
* Testing Framework
  + ?

## Risks Issues

Describe issues.

## Features to be tested

* Users
  + Create User
  + Get User
  + Login as user
  + Get created user
  + Get user with courses, assignments and submissions
  + Delete user
* Courses
  + Create Course
  + Fail creating course with missing payload
  + Get Created Course
  + Get Multiple Courses
  + Get a course with its users, assignments and submissions
  + Add student to course
  + Get course and check student was added
  + Fail adding student to unknown course
  + Fail adding unknown student to course
  + Remove user from course
  + Fail removing user from unknown course
  + Get course and check student was removed
  + Delete course
  + Fail deleting already deleted course
  + Fail getting deleted course
* Assignments
  + Create Assignment
  + Fail creating assignment with missing payload
  + Get created assignment
  + Get multiple assignments
  + Get an assignment with its submissions
  + Add test case to assignment
  + Delete test case
  + Delete Assignment
* Testing Framework
  + ?

## Features not to be tested

* Submissions – this module depends on integration with repository management system.

## 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
* **Node.js:** The tests are written using node
* **Chai:** For the assertions
* **Mocha:** Testing framework
* **Text Editor (Sublime Text):** To write the tests.

## 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.