**Coding Standards**

This document outlines standards for coding in Python using the eclipse IDE for the automation of REST API.

1. File Structure

The project will contain three packages:

* CustomCalls

CustomCalls package will contain only those test cases that will read data from the .INI file

* ProvisioningApi

This package will have the overall test cases for API Testing for the whole project

* Settings

This package will contain the **CommonFunctions** and **DataFunctions** that will be used during the execution of the project

1. Naming Conventions

* PyDev Module

Each module of REST API (e.g., Course, Section, Users etc.) will have a different **PyDev** module **(.py file)** under Provisioning API package where the test cases of that specific module will be written.

The PyDev module name should be written in the following way:

If the RESTAPI module name is “Course” then the PyDev module name will be **test\_(id)\_course**

The **id** is decided on the basis of previous PyDev module. Each PyDev module will have a unique **id.**

* Class

The class name will be decided according to the request type. All the test cases for the same request type of certain module will fall under the same class.

For example, if the request type is **POST** and the module is **Course** then the class name will be **AddCourse** and all the test cases for this request type will be defined under the same class

Note: If the module has four request types (GET, PUT, POST, Delete), then the PyDev module will contain four classes:

* AddCourse
* UpdateCourse
* GetCourse
* DeleteCourse
* Method

The method name will start with keyword **testcase\_** that is part of PyTest framework. We will append the id that will be unique for each method and class name after that.

For example, if the course module has POST request type with two test cases, then the methods name will be:

* testcase\_01\_AddCourse
* testcase\_02\_AddCourse

ClassName

id

keyword

1. Scoping Conventions

* Each method of a class uses **URL** and a **SheetName** (Excel file); therefore, these variables must be declared globally in the class.
* **TestCaseID** is unique for each method, therefore, it will be must be defined within that particular method.
* Execution time is calculated for each test case, therefore, the **starttime** variable will be defined within the test case.
* **Header** and **Body** Parameters will be defined in the method and the key values will either be taken from the **CommonFunctions** or **DataFunctions.**