**Code Test plan for**

**VSB\_Plus**

*Change Log*

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| --- | --- | --- | --- |
| **Version** | **Change Date** | **By** | **Description** |
| 1.0 | 02/22/2020 | Xinyu Liu | Create the test doc |
| 2.0 | 03/30/2020 | Xinyu Liu | Modify the doc |
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1 Introduction 2

1.1 Scope 2

1.1.1 In Scope 2

1.1.2 Out of Scope 2

1.2 Quality Objective 2

1.3 Roles and Responsibilities 2

2 Test Methodology 3

2.1 Overview 3

2.2 Test Levels 3

2.3 Bug Triage 3

2.4 Suspension Criteria and Resumption Requirements 3

2.5 Test Completeness 4

3 Test Deliverables 4

4 Resource & Environment Needs 4

4.1 Testing Tools 4

4.2 Test Environment 4

5 Terms/Acronyms 5

# Introduction

The Test Plan is designed to describe the scope, approach and resources of testing of capstone project VSB\_Plus.

The plan identify the functionality to be tested and the types of testing to be performed.

## Scope

### In Scope

All the feature of web application VSB\_Plus which were defined in requirement document are need to be tested.

The mainly functionality include user logging in, course prerequisite reminding, course searching and planning the course schedule.

### Out of Scope

These feature are not be tested because they are included in the software requirement specs.

* Website Security and Performance
* Hardware Interfaces

## Quality Objective

The test objectives are to verify the Functionality of website VSB\_Plus, the project should focus on testing the course operation such as course search and course schedule...etc. to guarantee all the these operation can work normally at the end of the project.

## Roles and Responsibilities

The project should use capstone project members as the tester.

|  |  |  |
| --- | --- | --- |
| No. | Member | Tasks |
| 1. | Test Manager | Manage the whole project  Define project directions  Acquire appropriate resources |
| 2. | Scrum Master | Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects. |

# Test Methodology

## Overview

The project will adopt the Agile test methodology, because the project use the Agile developer management.

## Test Levels

In the project VSB\_Plus, there are a type of testing should be conducted.

* Unit Testing: Each unit function in web are tested individually.
* Integration UI Testing: Individual unit are combined and tested as a group
* PHP API Testing: Test all the APIs create for the web under tested.

## Bug Triage

## Suspension Criteria and Resumption Requirements

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

## Test Completeness

* 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.

# Test Deliverable

Test deliverable are provided as below

**Before testing phase**

* Test plans document.
* Test cases document

**During the testing**

* Test tool simulators
* Test Data

**After the testing cycles is over**

* Test Result/reports

# Resource & Environment Needs

## Testing Tools

|  |  |  |
| --- | --- | --- |
| **No.** | **Resources** | **Descriptions** |
| 1. | Computer |  |
| 2. | Network |  |
| 3. | Server |  |

## Test Environment

Environment configuration requirements:

1. python + selenium (last version)
2. DDT(version 1.4.1)
3. PyYAML (version 5.4.1)
4. xrld (version 1.2.0)

# Terms/Acronyms

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

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| API | Application Program Interface |
| DDT | Data-Driven Tests |
| PyYAML | YAML in Python |
| xrld | Excel library in the python |