**HCMC UNIVERSITY OF TECHNOLOGY & EDUCATIONFACULTY FOR HIGH QUALITY TRAINING**

**INFORMATION TECHNOLOGY🙞🕮🙜**

**TEST PLANING**

**PROJECT:**

**MY WORK SPACE**

**(YOUTUBE/MP4/VIDEO STREAMING/ PDF/ TEXT)**

**Project Code: *MyWorkSpace\_G13***

**Document Code: *MyWorkSpace\_G13***

**Ho Chi Minh City, 2019-Nov-15**

**RECORD OF CHANGE**

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(\*) *A -Added, M -Modified D -Deleted*

**SIGNATURE PAGE**

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# **INTRODUCTION**

## **PURPOSE**

The main objective of this document is to set up a testing plan for myworkspace.vn, which will focus on identifying the following:

* Scope of testing
* Requirement for test
* Test Strategy
* Test Environment
* Resource & Responsibilities
* Test Milestones
* Deliverables

## **BACKROUND INFORMATION**

*Myworkspace.vn* can help individuals build a separate channel to edit lectures, sharing and trading lectures.

This document will be established a plan for testing add the Youtube link, file MP4, Video streaming, file PDF, file Text to website.

## **DOCUMENT REFERENCE**

|  |  |  |  |
| --- | --- | --- | --- |
| Title/File name | Author | Version | Effective Date |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## **DEFINITIONS, ACRONYMS, AND ABBREVIATIONS**

The following is a list of definitions, acronyms, and abbreviations of the document.

|  |  |  |
| --- | --- | --- |
| Abbreviations | Description | Note |
|  |  |  |
|  |  |  |
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|  |  |  |

## **SCOPE OF TESTING**

### List of stages of testing

* System Test
* Acceptance Test
* Regression Test
* Integration Test

### List of test types

* Function Test
* User Interface Test
* Performance Test
* Tress Test
* Load Test

### List any assumptions (Giả định)

(*N/A*)

### Plan defect

* Create bugs list.
* Create bug report.

## **CONSTRAINTS**

* Operating system: PC (Windows 10), Mobile Web
* Browser: Internet Explorer 11, Google Chrome, Fire Fox.

## **RISK LIST**

(*N/A*)

# **REQUIREMENT FOR TEST**

## **TEST ITEMS**

### Functional requirements

* Register Account.
* Login system.
* Create website.
* Create category.
* Create Courses.
* Create Content.
* Create Lesson.
* Configuration Content.
* Change Language

### Non-functional requirement

* User interface.
* Peripherals (wi-fi).
* System performance.

## **ACCEPANCE TEST CRITERIA**

* Test coverage:
* Successful Test coverage:
* Number of Test cases:
* Number of defects/Weighted defects:

# **TEST STRATEGY**

## **TEST TYPES**

### Function test

|  |  |
| --- | --- |
| Test Objective | Ensure proper target-of-test functionality, including navigation, data entry, processing, and retrieval. |
| Technique | Execute each use case, use-case flow, or function, using valid and invalid data, to verify the following:  -    The expected results occur when valid data is used.  -    The appropriate error or warning messages are displayed when invalid data is used.  -    Each business rule is properly applied.  - Use Test tool … |
| Completion Criteria | -   All planned tests have been executed.  -     All identified defects have been addressed and closed. |
| Special Considerations | Identify or describe those items or issues (internal or external) that impact the implementation and execution of function test. |

### Business cycle testing

|  |  |
| --- | --- |
| Test Objective | Ensure proper target-of-test and background processes function according to required business models and schedules. |
| Technique | Testing will simulate several business cycles by performing the following:  The tests used for target-of-test’s function testing will be modified or enhanced to increase the number of times each function is executed to simulate several different users over a specified period.  All time or date-sensitive functions will be executed using valid and invalid dates or time periods.    All functions that occur on a periodic schedule will be executed or launched at the appropriate time.  Testing will include using valid and invalid data to verify the following:  The expected results occur when valid data is used.  The appropriate error or warning messages are displayed when invalid data is used.  Each business rule is properly applied. |
| Completion Criteria | All planned tests have been executed.  All identified defects have been addressed. |
| Special Considerations | System dates and events may require special support activities  Business model is required to identify appropriate test requirements and procedures. |

### User interface test

User Interface (UI) testing verifies a user’s interaction with the software.

|  |  |
| --- | --- |
| Test Objective | Verify the following:  Navigation through the target-of-test properly reflects business       functions and requirements, including window-to-window, field-to-field, and use of access methods (tab keys, mouse movements, accelerator keys)  Window objects and characteristics, such as menus, size, position, state, and focus conform to standards. |
| Technique | Create or modify tests for each window to verify proper navigation and object states for each application window and objects. |
| Completion Criteria | Each window successfully verified to remain consistent with benchmark version or within acceptable standard |
| Special Considerations | Not all properties for custom and third party objects can be accessed. |

### Data and Database Integrity Testing

The databases and the database processes should be tested as a subsystem within the project.

|  |  |
| --- | --- |
| Test Objective | Ensure database access methods and processes function properly and without data corruption. |
| Technique | Invoke each database access method and process, seeding each with valid and invalid data or requests for data.  Inspect the database to ensure the data has been populated as intended, all database events occurred properly, or review the returned data to ensure that the correct data was retrieved for the correct reasons |
| Completion Criteria | All database access methods and processes function as designed and without any data corruption. |
| Special Considerations` | Testing may require a DBMS development environment or drivers to enter or modify data directly in the databases.  Processes should be invoked manually.  Small or minimally sized databases (limited number of records) should be used to increase the visibility of any non-acceptable events. |

### Performance test

Performance test is to measure and evaluate response times, transaction rates, and other time-sensitive requirements.

|  |  |
| --- | --- |
| Test Objective | Verify performance behaviors for designated transactions or business functions under the following conditions:  Normal anticipated workload  Anticipated worst case workload |
| Technique | Use Test Procedures developed for Function or Business Cycle Testing.  Modify data files to increase the number of transactions or the scripts to increase the number of iterations each transaction occurs.  Scripts should be run on one machine (best case to benchmark single user, single transaction) and be repeated with multiple clients (virtual or actual, see Special Considerations below). |
| Completion Criteria | Single Transaction or single user:  Successful completion of the test scripts without any failures and within the expected or required time allocation per transaction.  Multiple transactions or multiple users:  Successful completion of the test scripts without any failures and within acceptable time allocation. |
| Special Considerations | Comprehensive performance testing includes having a background workload on the server.  There are several methods that can be used to perform this, including:  “Drive transactions” directly to the server, usually in the form of Structured Query Language (SQL) calls.  Create “virtual” user load to simulate many clients, usually several hundred.  Remote Terminal Emulation tools are used to accomplish this load. This technique can also be used to load the network with “traffic”.  Use multiple physical clients, each running test scripts to place a load on the system.  Performance testing should be performed on a dedicated machine or at a dedicated time.  This permits full control and accurate measurement.  The databases used for Performance Testing should be either actual size or scaled equally. |

### Regression Testing

Regression testing is a necessary maintenance activity aimed at showing that code has not been adversely affected by changes.

|  |  |
| --- | --- |
| Test Objective | Regression testing is to validate modified parts of the software, to make sure that the modification does not cause errors in other parts. |
| Technique | Reuse the set of test cases from an existing test suite to test a modified module. |
| Completion Criteria | All test cases are performed and passed  All selected test cases are performed and passed |
| Special Considerations |  |

## **TEST STRATEGY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of Tests | Stage of Test | | | |
| Integration | System | Acceptance | Regression |
| Function Test | X | X | X | X |
| Non-Function Test | X |  |  |  |

# **TEST ENVIROMENT**

## **HARDWARE**

* PC/Laptop.
* Mobile for test mobile version.

## **SOFTWARE**

* Browser Chrome 79
* Browser Fire Fox 71.0
* Browser Internet Explorer 11

## **INFRASTRUCTURE** (*N/A*)

# **RESOURCE & RESPONSIBLITIES**

## **HUMAN RESOURCE**

|  |  |  |  |
| --- | --- | --- | --- |
| Worker/Doer | Role | Specific Responsibilities/Comments | Location |
| Tu Ma | Tester | QA  Test Plan  Test Design  Test Case  Manual Test  Report | HCMUTE |
| Ha Pham | Tester | QA  Test Plan  Test Case  Manual Test  Report | HCMUTE |
| Anh To | Tester | QA  Test Design  Test Case  Manual Test  Report | HCMUTE |

## **SYSTEM**

(*N/A*)

## **TEST MANAGEMENT**

Defect Tracking and Testcase Result: Excel file.

# **TEST MILESTONES**

|  |  |  |  |
| --- | --- | --- | --- |
| Milestone Task | Effort (pd) | Start Date | End Date |
| Create Test Plan |  |  |  |
| Review & update Test Plan |  |  |  |
| Create Test Design |  |  |  |
| Review & update Test Design |  |  |  |
| Create Test Case |  |  |  |
| Review & update Test Case |  |  |  |
| Execute Test Case |  |  |  |
| Create Test Report |  |  |  |
| Create Bugs List (Defect log) |  |  |  |

# **DELIVERABLES**

|  |  |  |  |
| --- | --- | --- | --- |
| No | Deliverables | Language | Delivered Date |
|  | Test Design | EN, VN |  |
|  | Test cases | EN, VN |  |
|  | Defect log | EN,VN |  |
|  | Test reports | EN,VN |  |