

**CAPSTONE PROJECT REPORT**

**Report 5 – Software Test Documentation**

– Ho Chi Minh City, October 2020 –

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# I. Project Report

## 1. Status Report

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Work Item** | **Status** | **Notes (Work Item in Details)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

## 2. Team Involvements

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task** | **Member** | **Notes (Task Details, etc.)** |
| 1 |  | KienNT |  |
| 2 |  | TuanTV |  |
| 3 |  | AnhLM |  |

## 3. Issues/Suggestions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Issue** | **Status** | **Notes (Solution, Suggestion, etc.)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

# II. Project Management Plan

## 1. Overall Description

### 1.1 Test Model

We choose V-model for our project because:

* It is easy to use because planning and test designing are done before implementing code.
* This model saves time for the development process.
* Defects are avoided in the implementing stage because defects are mostly found at earlier stages.

### 1.2 Testing Levels

* Unit test: Test each component of our system to full fill functionalities or not.
* Integration testing: Test the data flow from one component to other component
* System testing: Test the entire system to make sure that our system meets the specification
* Acceptance testing: Test the entire system using real data. This test is performed by the end user to test whether our system matches requirements or not.

### 1.3 Testing Types

* Functional testing: Test each system function to make sure that they conform requirements. Each function of the system is checked by providing proper input, verifying the output and comparing actual results with expected results.
* Non-functional testing: Test the performance, usability, reliability, security of the system.

## 2. Test Plan

### 2.1 Test Stages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Test** | **Stage of Test** | | |  |
| ***Unit*** | ***Integration*** | ***System*** | ***Acceptance*** |
| Function Test | X | X | X | X |
| User Interface Test | X |  | X | X |
| Performance Tests | X | X |  |  |
| Load, Stress, Volume test |  |  | X | X |
| Security test | X |  | X | X |
| Data integrity test |  | X | X | X |

### 2.2 Resources

#### a. Human Resources

|  |  |  |
| --- | --- | --- |
| **Worker/Doer** | **Role** | **Specific Responsibilities/Comments** |
| CuongHX | Leader | * Planning tests * Manage the progress of testing * Design additional test cases * Enforce additional test cases |
| AnhND | Member | * Design and write test cases * Execute test cases for functions of mobile application * Review Test Plan |
| BaoHQ | Member | * Design and write test cases * Execute test cases for functions of mobile application * Execute test cases for functions of web dashboard application * Review Test Plan |
| TuongDM | Member | * Design and write test cases * Execute test cases for web server * Review Test Plan |

#### b. Environment

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Provider** | **Version** |
| Manage Test Cases | Microsoft Office Excel | Microsoft | 2019 |
| Manage Test Configuration | Microsoft Office Word | Microsoft | 2019 |
| Manage Test Progress | Trello | Atlassian | N/A |
| Mobile Test Environment | iOS | Apple | 14.2 |
| Mobile Test Environment | Android | Google | 10 |
| Server Test Environment | Tomcat | Apache | 8 |
| Web Application Test Environment | Google Chrome | Google | 87 |

### 2.3 Test Milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone Task** | **Effort (md)** | **Start Date** | **End Date** |
| Set up a test plan | 2 | 1/10/2020 | 3/10/2020 |
| Design test cases | 3 | 4/10/2020 | 7/10/2020 |
| Write test cases | 4 | 8/10/2020 | 12/10/2020 |
| Review test cases | 2 | 12/10/2020 | 14/10/2020 |
| Execute test cases | 3 | 15/10/2020 | 18/10/2020 |
| Record and evaluate test results | 1 | 18/10/2020 | 19/10/2020 |

### 2.4 Deliverables

|  |  |  |
| --- | --- | --- |
| **No** | **Deliverables** | **Due Date** |
| 1 | Test plan | 3/10/2020 |
| 2 | Test cases | 14/10/2020 |

## 3. Test Cases

*[Prepare the details on the test cases following the provided template*

* *Unit Test Cases: Report5\_Unit Test Case.xls*
* *Other Test Cases: Report5\_ Test Case.xls]*

## 4. Test Reports

*[Provide the test result, statistics and the relevant test analysis for your testing in the project]*