

**CAPSTONE PROJECT REPORT**

**Report 5 – Software Test Documentation**

– HoChiMinh, September 2020 –

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# I. Project Report

## 1. Status Report

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Work Item** | **Status** | **Notes (Work Item in Details)** |
| 1 | Overall Description | Completed |  |
| 2 | Test Plan | Completed |  |
| 3 | Test Cases | Completed |  |
| 4 | Test Reports | Completed |  |

## 2. Team Involvements

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task** | **Member** | **Notes (Task Details, etc.)** |
| 1 | Overall Description | Mytn |  |
| 2 | Test Plan | Mytn |  |
| 3 | Test Cases | Mytn, Kiendst,  Datbc |  |
| 4 | Test Reports | Mytn,  Kiendst |  |
| 5 | Unit testing | Kiendst, Thaott |  |

## 3. Issues/Suggestions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Issue** | **Status** | **Notes (Solution, Suggestion, etc.)** |
|  |  |  |  |

## 4. 状況報告

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **課題項目** | **状況** | **注意** |
| 1 | 概要説明 | 完成 |  |
| 2 | テスト計画 | 完成 |  |
| 3 | テストケース | 完成 |  |
| 4 | テストレポート | 完成 |  |

## 5. チーム-関与事項

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **課題** | **メンバー** | **注意** |
| 1 | 概要説明 | Mytn |  |
| 2 | テスト計画 | Mytn |  |
| 3 | テストケース | Mytn, Kiendst,  Datbc |  |
| 4 | テストレポート | Mytn,  Kiendst |  |
| 5 | 単体テスト | Kiendst, Thaott |  |

## 6. 課題/提案

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **課題** | **状況** | **注意** |
|  |  |  |  |

# II. Project Management Plan

## 1. Overall Description

### 1.1 Test Model

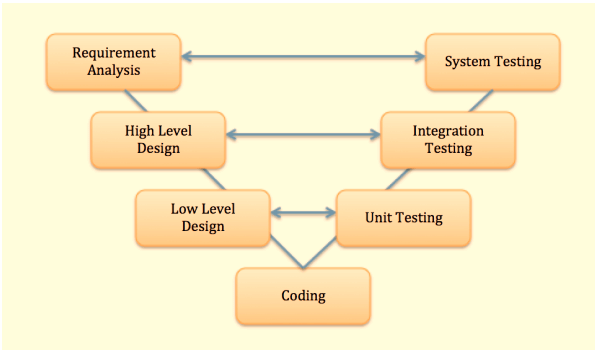
We use a software development process model is V-model because this model is suitable for project conditions. For each stage, there will be a corresponding check it helps us to detect errors from the beginning.

Figure Test Model

References: *https://en.wikipedia.org/wiki/V-Model\_(software\_development)*

### 1.2 Testing Levels

|  |  |
| --- | --- |
| **Testing Level** | **Description** |
| Unit Testing | Checks if software components are fulfilling functionalities or not. |
| Integration Testing | Checks the data flow from one module to other modules. |
| System Testing | Evaluates both functional and non-functional needs for the testing. |
| Acceptance Testing | Checks the requirements of a specification or contract are met as per its delivery. |

Table 1 Testing Levels

### 1.3 Testing Types

|  |  |
| --- | --- |
| **Testing types** | **Description** |
| Functional Testing | Include:   * Unit Testing * Integration Testing * System Testing * Interface Testing * Regression Testing |
| Non-functional Testing | Include:   * Performance Testing * Load Testing |

Table 2 Testing Types

## 2. Test Plan

### 2.1 Test Stages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Test** | **Stage of Test** | | | |
| ***Unit*** | ***Integration*** | ***System*** | ***Acceptance*** |
| Interface test | X |  | X |  |
| Performance Testing | X | X |  |  |
| Load Test |  |  | X | X |

Table 3 Test Stages

### 2.2 Resources

#### a. Human Resources

|  |  |  |
| --- | --- | --- |
| **Worker/Doer** | **Role** | **Specific Responsibilities/Comments** |
| Trần Thiên Thảo | Leader | * Functional Testing * Non-functional Testing |
| Bồ Công Đạt | Member | * Functional Testing * Non-functional Testing |
| Đào Sỹ Trung Kiên | Member | * Functional Testing * Non-functional Testing |
| Trương Ngọc Mỹ | Member | * Functional Testing * Non-functional Testing |

Table 4 Human Resources

#### b. Environment

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Provider** | **Version** |
| Unit Test | Postman | Postman, Inc. | 7.36.0 |
| Unit Testing  Integration Testing  System Testing  Interface Testing  Regression Testing  Performance Testing  Load Testing | Chrome | Google LLC | 87.0.4280.66 |
| Android phone | Sony Corporation | XZ1 |

Table 5 Environment

### 2.3 Test Milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone Task** | **Effort (md)** | **Start Date** | **End Date** |
| Unit test case | 25 | 20/11/2020 | 15/12/2020 |
| System test case | 25 | 20/11/2020 | 15/12/2020 |
| Test procedures | 8 | 05/12/2020 | 13/12/2020 |
| Defect reports | 5 | 15/12/2020 | 20/12/2020 |

Table 6 Test Milestones

### 2.4 Deliverables

|  |  |  |
| --- | --- | --- |
| **No** | **Deliverables** | **Due Date** |
| 1 | Unit test case | 15/12/2020 |
| 2 | System Test case | 15/12/2020 |

Table 7 Deliverables

## 3. Test Cases

Test cases are included in these two excel files:

|  |  |
| --- | --- |
| **No** | **Filename** |
| 1 | Unit Test Cases: Report5\_Unit\_Test\_Case.xls |
| 2 | System Test case |

Table 8 Test Cases

## 4. Test Reports

Test reports are included in this file:

|  |  |
| --- | --- |
| **No** | **Filename** |
| 1 | Report5\_Test\_Case\_Document.xlsx |

Table 9 Test Reports