

**Capstone Project Report**

**Report 5 – Software Test Documentation**

– Ho Chi Minh City, 01/2021 –

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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 |  | HaPTN |  |
| 2 |  | GiaNH |  |
| 3 |  | NguyenLG |  |

## 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

Based on the user requirements, team resources, and project conditions, our team has come up with using the prototype model as a software development model. In this model, a prototype is built, tested, and reworked until it is accepted by the user.

Diagram

Description automatically generated

Figure 1. Prototype model

References: <https://www.geeksforgeeks.org/software-engineering-prototyping-model/>

### 1.2 Testing Levels

|  |  |
| --- | --- |
| **Testing Level** | **Description** |
| Unit Testing | Checks the software modules are fit for use |
| Integration Testing | Checks the integrated logic of the software module group |
| System Testing | Checks the whole system if it works as expected or not |
| Acceptance Testing | Checks the software if the user requirements are met or not |

Table 1. Testing Levels

### 1.3 Testing Types

|  |  |
| --- | --- |
| **Testing types** | **Description** |
| Functional Testing | * Unit Testing * Integration Testing * System Testing * Interface Testing * Regression Testing * Beta Testing |
| Non-functional Testing | * Performance Testing |

Table 2. Testing Types

## 2. Test Plan

### 2.1 Test Stages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Test** | **Stage of Test** | | | |
| ***Unit*** | ***Integration*** | ***System*** | ***Acceptance*** |
| Interface Testing | X |  | X |  |
| Performance Testing |  | X |  |  |
| Regression Testing | X | X |  |  |
| Beta Testing |  |  |  | X |

Table 3. Test Stages

### 2.2 Resources

#### a. Human Resources

|  |  |  |
| --- | --- | --- |
| **Worker/Doer** | **Role** | **Specific Responsibilities/Comments** |
| Phạm Thị Ngọc Hà | Leader | * Functional Testing * Non-functional Testing |
| Lê Gia Nguyên | Member | * Functional Testing * Non-functional Testing |
| Nguyễn Hoàng Gia | Member | * Functional Testing * Non-functional Testing |

Table 4. Human Resources

#### b. Environment

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Provider** | **Version** |
| Unit Testing | Postman | Postman, Inc | 8.2.1 |
| Unit Testing  Integration Testing  System Testing  Interface Testing  Regression Testing  Performance Testing | Chrome | Google LLC | 89 |

Table 5. Environment

### 2.3 Test Milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone Task** | **Effort (md)** | **Start Date** | **End Date** |
| Setup the environment | 2 | 09/04/2021 | 09/04/2021 |
| Admin role function unit test | 2 | 09/04/2021 | 09/04/2021 |
| Admin role integration test | 3 | 09/04/2021 | 09/04/2021 |
| Admin role interface test | 2 | 09/04/2021 | 09/04/2021 |
| Salesman role function unit test | 4 | 09/04/2021 | 09/04/2021 |
| Salesman role integration test | 5 | 09/04/2021 | 09/04/2021 |
| Salesman role interface test | 4 | 09/04/2021 | 09/04/2021 |
| Sales manager role function unit test | 4 | 10/04/2021 | 10/04/2021 |
| Sales manager role integration test | 5 | 10/04/2021 | 10/04/2021 |
| Sales manager role interface test | 4 | 10/04/2021 | 10/04/2021 |
| Admin role regression test | 3 | 11/042021 | 11/042021 |
| Admin role performance test | 3 | 11/042021 | 11/042021 |
| Salesman role regression test | 5 |  |  |
| Salesman role performance test | 3 |  |  |
| Sales manager role regression test | 5 |  |  |
| Sales manager role performance test | 3 |  |  |
| Sales supervisor role function unit test | 3 |  |  |
| Sales supervisor role integration test | 3 |  |  |
| Sales supervisor role interface test | 3 |  |  |
| Sales supervisor role regression test | 4 |  |  |
| Sales supervisor role performance test | 3 |  |  |
| System test | 7 |  |  |
| Beta test | 10 |  |  |

Table 6. Test Milestones

### 2.4 Deliverables

|  |  |  |
| --- | --- | --- |
| No | Deliverables | Due Date |
| 1 | Report5\_Unit Test Case | 12/04/2021 |
| 2 | Report5\_ Test Case Document | 13/04/2021 |

Table 7. Deliverables

## 3. Test Cases

|  |  |
| --- | --- |
| **No** | **Filename** |
| 1 | [Report5\_Unit Test Case.xls](Report5_Unit%20Test%20Case.xls) |
| 2 | [Report5\_Test Case Document.xls](Report5_Test%20Case%20Document.xlsx) |

Table 8. Test Cases

## 4. Test Reports

|  |  |
| --- | --- |
| **No** | **Filename** |
| 1 | [Report5\_Unit Test Case.xls](Report5_Unit%20Test%20Case.xls) |

Table 9. Test Reports