

TEST PLAN

**Version1.0**

**Trịnh Như Phương**

**30/10/2019**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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# 

# Introduction

* This test plan describes the testing methodology and an overview of the testing process of the Real Estate Company Management App
* The inspection plan will be based on the project's items (start date, end date, target, assumption, etc.); Describe the process for setting up a test (I / O criteria, creating test cases, assigning specific tasks, scheduling, etc.).
* Implementation strategy: describing how the testing process will be performed, identifying and reporting errors, correcting and correcting errors.

## Scope

## In scope

Will test the functions included in the user story including:

* Internal management
* Watch information
* Report statistics
* Happy Birthday
* Management of work
* Management of leave
* Customer management
* Managing BDS projects

## Out of scope

* Hardware interface
* Security
* Efficiency

## Quality objective

* Experimental objectives are:
* Define a basic description of the project, identify the functions that will be experimented or not in the project implementation process.
* List requirements for testing
* Documents to be completed after the end of the testing process

## Roles and responsibilities

|  |  |  |
| --- | --- | --- |
| **No** | **Member** | **Task** |
| 1 | Test Lead | Confirm a partial completion of the Test plan.  Allow OK to start next test level.  Facilitate communication between the testing team and the technical team. |
| 2 | Test member | Execute test cases to achieve expected results.  Record errors and report to the team.  Check back after the software has changed.  Prepare test data and regularly report status. |

# Test Methodology

## Overview

* **Incremental Model**
  + In this model, customer requirements are divided into several functional groups.
  + These functional groups are called small modules and are independently developed.
  + Each module will go through require, design, code, test ... as a normal software development life cycle.
  + The main module will be selected for development first and then the next modules.
  + After finishing the release module, it will be delivered to customers, and after finishing all the modules, all releases will be combined to form a complete product.

## Test Levels

* Funtions test: for testing each function in the project and no effect from other functions.
* Integration test: integration test ensures that when pairing 2 modules together, there is no error and no conflict

## Bug

* High: Critical errors are errors in the main flow of the function, errors that prevent the function, stop the system, such as the website cannot be accessed, cannot be added / edit the information, the information is not saved to the database,
* Medium: Medium errors can be in the main stream or sub stream of a project, have a certain impact on the project but are not so serious as to make the function inoperable such as save wrong information, must reload the page to display the newly added information without displaying the notice, ...
* Low: Mostly the errors are in the interface, title names or errors related to the visibility of the website

## Suspension Criteria and Resumption Requirements

* If team members report that 40% of the test cases fail, pause the test until the development team fixes all the failed cases.

## Test Completeness

* Specify criteria that indicate the successful completion of the test phase
* Running speed is required to be 100% unless there is a clear reason.
* The pass rate is 80%, achieving a pass rate is required

# Test Deliverables

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Deliverable Name** | **Author** | **Reviewer** |
| 1. | Test Plan | Test Lead | Mentor |
| 2. | Functional Test Cases | Test Team | Mentor |
| 3. | Logging Defects in HP ALM | Test Team | Test Lead/ Coder/ Mentor |
| 4. | Daily/weekly status report | Test Team/ Test Lead | Test Lead/Mentor |
| 5. | Test Closure report | Test Lead | Mentor |

# Resource & Environment Needs

## Testing Tools

|  |  |  |
| --- | --- | --- |
| **No.** | **Evironment** | **Decription** |
| 1 | Server | Need a database server to install MySQL server  Web server with Apache Server installed |
| 2 | Test Tool | Develop a Test tool that can automatically generate test results to predefined forms and perform automated checks |
| 3 | NetWork | Set up Gigabit LAN and 1 internet connection with minimum speed of 5 Mbps |
| 4 | Computer | At least 4 computers running Windows 7, 2GB RAM, 3,4GHZ CPU |

## Test Environment

* Personal computers, smartphones with network connection
* Test environment on windows with popular browsers such as Internet Explorer, Firefox, Google Chrome, CocCoc will be available for each tester.

# Terms/Acronyms

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

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| API | Application Program Interface |
| AUT | Application Under Test |