[English-Vietnamese Picture Dictionary]

Test Plan

Version 1.0

SE1302\_SWT301

Table of Contents

[INTRODUCTION 3](#_Toc36106637)

[*Product’s purpose* 3](#_Toc36106638)

[*Test purpose* 3](#_Toc36106639)

[*Related documents* 3](#_Toc36106640)

[*Test Scope* 4](#_Toc36106641)

[Testing type 4](#_Toc36106642)

[*Risk list* 4](#_Toc36106643)

[Risk due to planning 4](#_Toc36106644)

[Risks due to funding and resources 5](#_Toc36106645)

[Operational risks 5](#_Toc36106646)

[Technical risks 5](#_Toc36106647)

[TEST REQUIREMENT 6](#_Toc36106648)

[TEST STRATEGY 6](#_Toc36106649)

[*Test tool* 6](#_Toc36106650)

[*Test environment* 7](#_Toc36106651)

[TEST RESOURCES 7](#_Toc36106652)

[*Man-power* 7](#_Toc36106653)

[*System* 7](#_Toc36106654)

[Hardware 7](#_Toc36106655)

[Software 8](#_Toc36106656)

[FEATURES 8](#_Toc36106657)

[*Testing features* 8](#_Toc36106658)

[*Non-testing features (build version 1.5)* 8](#_Toc36106659)

[TEST MILESTONES 8](#_Toc36106660)

[TEST PRODUCTS 9](#_Toc36106661)

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# INTRODUCTION

## Product’s purpose

Use Java to build a Vietnamese and English dictionary application. To support students in the process of self-learning English

* Application used to translate words and display illustrations, word meaning and reading
* The application needs to run on all operating systems
* The application needs quick interpretation time (under 2 seconds)
* The application needs to be able to update new vocabulary words (manually)

## Test purpose

Test document for project “**English-Vietnamese Picture Dictionary**” be used to:

• Identify project information and project parts that need to be tested.

• List the Test Requirements

• Identify the testing methods and strategies to use

• Identify resources needed.

• State the functions tested and functions not tested

• List the test environment

## Related documents

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Documents | Resource | Comment |
| 1 | Document description required | Has been fully provided | 🗸 |
| 2 | Document describing the function | 🗸 |
| 3 | Project planning document | 🗸 |
| 4 | Material design analysis | 🗸 |
| 5 | Instruction document | 🗸 |
|  |  |  |  |

## Test Scope

### Testing type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Feature** | **Functional Testing** | **Integration Testing** | **Security & Access Control Testing** |
| 1 | Vocabulary management bank | 2 man days | 0.5 man days | 0.5 man days |
| 2 | Photo gallery manager | 2 man days | 0.5 man days |
| 3 | Add, Update words | 2 man days |
| 4 | Search and user manual | 1 man days | 0.5 man days |
| 5 | Audio library manager | 1 man days |
|  |  |  |  |  |

**Feature / non-feature to be test**

- Feature test : Main feature include Add, Update, Search word, show image, show meaning, read voice, show user manual

- Non- Feature test: (none)

## Risk list

### Risk due to planning

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Risk** | **Remedy and Prevention** | **Effect** |
| 1 | Build out late | Report to the Test manager to adjust the general plan. | Medium |
| 2 | Over the prescribed time limit | Always follow the progress, update, adjust the plan. | High |
| 3 | There are change requests but not fully reported. | Contact Project Manager and Business Analysis for information | High |
|  |  |  |  |

### Risks due to funding and resources

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Risk** | **Remedy and Prevention** | **Effect** |
| 1 | Exceeding allowed expenses during operation | Always follow the progress, update, adjust the plan. | Medium |
| 2 | Lack of system resources | Recommend additional funding, support system resources. | Medium |
| 3 | Initial cost is not enough | Review the plan, adjust the irrational points, cut down on less important tasks. | Medium |
|  |  |  |  |

### Operational risks

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Risk** | **Remedy and Prevention** | **Effect** |
| 1 | Does not operate on the environment described in the requirement. | Feedback to developers to get another build. | Medium |
| 2 | Controversy between feature error and no error. | Meetings for verification with developers, Project managers and customers. | High |
|  |  |  |  |

### Technical risks

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Risk** | **Remedy and Prevention** | **Effect** |
| 1 | Module too complicated | The proposal was converted into a non-testing feature. | Cao |
| 2 | Integration test: The developer corrects this, the other is wrong | Review and discuss failed tests to make a quality decision. | Medium |
| 3 | Technical documents, instructions for use are not enough. | Request the Manager to provide more detailed documentation. | Low |

# TEST REQUIREMENT

* Test functions and components with high priority first.
* Assessing the quality of products. Product quality must be at an acceptable level and in line with customer requirements.
* Find as many errors as possible.

# TEST STRATEGY

## Review user documentation, user interfaces, and error-prone functions.

## Check that the function has been implemented correctly according to the description.

## Valid data does produce the expected results.

## Error and display correct message when data is invalid.

## The business rules are implemented correctly.

## Test different scenarios from simple to complex.

## Test Types of tests: Functional Test (mainly), Integration Test, Security & Access Control Testing.

## All error information must be recorded from which to evaluate the product quality.

## Test The test stops when: running out of time, running out of funds, completing the planned plan or reaching an agreed quality level.

## Test tool

|  |  |  |  |
| --- | --- | --- | --- |
| Action | Tools | Supplier /  Self-construction | Version |
| Managing test activities | Excel | Microsoft | 2010 |
| Error control | Excel | Microsoft | 2010 |
| Database management tools | SQL Server |  | 3.3 |
| Manage project progress | Microsoft Project | Microsoft | 2010 |

## Test environment

|  |  |  |
| --- | --- | --- |
| Resource | Functional Test / Integration Test  Security & Access Control Testing | System Test |
| Version | Run on code | Run on code |
| Database | DB develops | DB set separately |
|  |  |  |

# 

# TEST RESOURCES

## 

## Man-power

The following table describes test resources for the project.

|  |  |
| --- | --- |
| Member | Position / Responsibility / Comment |
| HaiMT | Test Manager : manage test activities   * Technical guidance. * Use and management of resources. * Management reports. * Product quality report. |
| HaiMT | Test Designer : design test case   * Define the test approach. * Write test cases. |
| TanPNM |
| ThaoNM |
| DangVTH |
| HaiMT | Tester: implement and run test cases.   * Implement tests and test suites. * Run a test suit. * Record results. |
| TanPNM |
| ThaoNM |
| DangVTH |

## System

**Hardware** **/Software**

|  |  |
| --- | --- |
| **Hardware Requires**  (minimal configuration) | **Hardware Requires**  (recommended configuration) |
| * CPU: Core i2-2100U 1.0hz | * CPU: Core i3-4005U, 1.7 GHz |
| * RAM:100MB | * RAM: 250MB |
| * HHD: 100MB | * HDD: 200MB |

|  |
| --- |
| **Software Requirement** |
| * Mac OS X version 10.6.8 or higher, OR Windows 7 SP1 (Services Pack 1) or higher. * JRE 1.7 or higher. |

# FEATURES

## Testing features

Main feature include:

* + Add
  + Update
  + Search
  + Show image
  + Show meaning
  + Read voice
  + Show user manual

## Non-testing features (none)

# TEST MILESTONES

* Each Milestone for 1 module includes designing test case and running test case.
* Test all feature

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Milestone Task | Resource | Begin date | End date | Man days |
| Manage Vocabulary bank |  | 20/03/2020 | 23/03/2020 | 3 days |
| Add New Word | HaiMT | 20/03/2020 | 23/03/2020 | 3 days |
| Update Word | ThaoNM | 20/03/2020 | 23/03/2020 | 3 days |
| Exit Program | HaiMT | 20/03/2020 | 23/03/2020 | 3 days |
| Manual | ThaoNM | 20/03/2020 | 23/03/2020 | 3 days |
| Click choose Word | DangVTH | 20/03/2020 | 23/03/2020 | 3 days |
| Search Word | TanPMN | 20/03/2020 | 23/03/2020 | 3 days |

# 

# TEST PRODUCTS

| ID | Product | Date | Handover | Receiver |
| --- | --- | --- | --- | --- |
| 1 | Test plan | March 27 | HaiMT | Mr. HuongLH |
| 2 | Test cases | March 27 | HaiMT | Mr. HuongLH |
| 4 | Defect log / reports | March 27 | HaiMT | Mr. HuongLH |