

**CAPSTONE PROJECT 1**

**VIBOTOUR – SMART CHATBOT FOR TOURIST 4.0**

TEST PLAN DOCUMENT

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**Project Information**

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| **Project acronym** | viBOTour | | |
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**Test Plan Document**

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**Document Approvals**

The following signatures are required for approval of this document.

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# **Introduction**

A test plan is a detailed software verification document that provides specifics on how the validate will test all aspects of software design. Test plans are test specifications used as guides for writing test case suites for design validation in both the software engineering fields. This test plan document contains a description of product functionality, a description of test cases to be written for each function, and a description of the testing platform to be used.

## **Purpose**

The purpose of the Test Plan is to define, schedule and monitor the test execution. It supports the following objectives:

* Provide a high-level list of the major target test functions
* List the Requirements for Test
* Describe the testing strategies to be employed on each target test functions
* Identify the required resources and schedule the Test execution

## **Scope**

This Test Plan is for release test plan for viBOTour system.

The Test Plan defines the unit, integration, system testing approach. The test scope includes the following:

* Testing of all functions
* Application performance
* Use cases requirements listed in the Product Backlog and User Stories document

## **Out of scope**

The following are considered out of scope for viBOTour Test Plan and testing scope: Performance testing for viBOTour system

## **Reference**

**Table 1: Document references**

|  |  |
| --- | --- |
| **No** | **Document references** |
| 01 | Proposal document |
| 02 | Product Backlog document |
| 03 | Project Plan Document |

## **Risk list**

**Table 2: Risks list**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Risk** | **The plan for corrective & preventive** | **The level of influence** |  |
| 1 | Time | Reduce time and increase individual personal time working in their stay on the Saturday day and Sunday | H |  |
| 2 | A test experience | Experience sharing used to reduce the research time | M |  |

# **Target Test Areas**

* Black box Testing

# **Test Specification**

## **Features**

**Mobile**

* FE01 – Authentication user’s account
* Login with email
* Register with email
* Forgot password
* FE02 – Chat with smart chatbot
* Send messages
* Select the response message
* Ask for voice assistance
* Customize the shedule
* FE03 – Manipulate with tours
* Book tours
* Delete tours
* Rating tour
* FE04 – Tour payment
* Checkout tours
* FE05 – Search tour
* Find tour on chat bot
* Find tour in main page
* FE06 – Receive notifications
* Send OTP code to the phone number
* Send OTP code to email
  1. **Test deliverables**
* Test Plan Document
* Test Case Document
* Test Summary Report

## **Requirements for test**

**Test items**

The following list describes the features that will be tested:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID Function** | **Function** | **A part of** | **Priority** | **Type test case** | **Constraints** |
| FE01 – 01 | Login with email | Authentication | 3 | User interface  Function test | The user can log in with their email and password with OTP authentication to use other features |
| FE01 - 02 | Register with email or google account | 3 | User interface  Function test | The users can register by email or with google account |
| FE01 - 03 | Forgot password | 2 | User interface  Function test | The users can retrieve their forgotten password and install a new one |
| FE02 – 01 | Send messages | Chat with smart chatbot | 3 | User interface  Function test | The users can send a message to the smart chatbot to request assistance |
| FE02 – 02 | Select the response message | 3 | User interface  Function test | The users can select suggested messages from the chat bot |
| FE02 – 03 | Ask for voice assistance | 2 | User interface  Function test | The users can request assistance, some of the features from the voice chat bot |
| FE02 – 04 | Customize the shedule | 2 | User interface  Function test | The users can create schedules by themselves according to their personal preferences depending on suggested locations from the chatbot |
| FE03 – 01 | Book tour | Manipulate with tours | 3 | User interface  Function test | The users can book a suggested tour on the main screen |
| FE03 – 02 | Delete tour | 3 | User interface  Function test | The users can delete the tous to search for another suitable tour |
| FE03 – 03 | Rating tour | 2 | User interface  Function test | The users want to rate the tours they have taken |
| FE04 – 01 | Checkout tours | Tour payment | 3 | User interface  Function test | The users can pay for any tour they have booked |
| FE05 – 01 | Search tour on chat bot | Search tour | 1 | User interface  Function test | The users can search for a suitable tour through the chat bot |
| FE05 – 02 | Search tour on home page | 1 | User interface  Function test | The users can search for tours through the location in the main screen |
| FE05 - 03 | Send OTP code and verification with phone number | Receive notifications | 2 | User interface  Function test | When users want to send or receive verification codes by phone number, they will receive a notification |
| FE05 - 04 | Send OTP code and verification with email | 2 | When users want to send or receive verification codes by phone number, they will receive a notification |

**Test strategy**

* Describe the overall approach to testing. For each major group of features or feature combinations, specify the approach which will ensure that these feature groups are adequately tested. Specify the major activities, techniques, and tools which are used to test the designated groups of features
* The approach should be described with sufficient details to permit identification of the major testing tasks and estimation of the time required to do each one.

**Hardware environment**

* Computer Acer Aspire5
* Computer Dell Inspire 5547

## **Test schedule**

**Human resources**

|  |  |
| --- | --- |
| **Name** | **Role** |
| Pham Van Thuyen | Tester |

**Test Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| Sprint 1 | Public grade interface | Pham Van Thuyen | 31/08/2020-18/09/2020 |
| API get student information |
| API get public grade |
| API download transcript |
| Download the transcript as a pdf file |
| View transcript of student |
| Sprint 2 | Board of wallet address interface | Pham Van Thuyen | 21/09/2020-10/10/2020 |
| API get Ethereum wallet |
| API get balance wallet address |
| API send Ethereum |
| Display alert when have problem with the balance |
| Enable, disable wallet address |
| API make the report |
| API download the report |
| Make report for a course |
| Download the report (Excel file) |
| Notification interface |
| Display notification real time |

# **Test Cycle and Exit Criteria**

## **Entry criteria**

* All test hardware platforms must have been successfully installed, configured, and functioning properly.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
* Proper test case is available.
* The test environment such as, lab, hardware, software, and system administration support should be ready.

## **Exit criteria**

* All test cases have been run.
* A certain level of requirements coverage has been achieved.
* No high priority or severe bugs are left outstanding.
* All high-risk areas have been fully tested, with only minor residual risks left outstanding.
* The schedule has been achieved.
* Not over the allowed project budge