[Project Name]

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**Automation Test Plan**

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1. **INTRODUCTION**

The purpose of the project is to build the system that *[project description]*.

The Test Plan determine the scopes, objectives and risk of testing. Defining the overall test approach, the overall framework, environment that will support test activities, resolution for risk and contingency, test criteria, timeline and resource planning.

Build automation test scripts which using for regression test phase.

1. **TEST OBJECTIVES**

* Ensure that system functionality works as expected without any critical, high bugs
* Ensure that the response time when using system meets expectation
* Ensure that the integration between modules and systems work as expectation

1. **TEST STRATEGY**
   1. *Scope of Testing* 
      1. *In scope testing*

In scope items will be system testing as usability of bellow features.

The following is the list features to be tested in this project:

|  |  |  |
| --- | --- | --- |
| No. | UserStory/Function | Degree of complex |
| 1 | Lọc theo Hãng Sản xuất | 1 |
| 2 | Lọc theo Mức Giá | 2 |
| 3 | Lọc theo xuất xứ | 1 |
| 4 | Lọc theo số bộ | 2 |
| 5 | Lọc theo kích thước | 2 |
| 6 | Lọc theo giảm giá nhiều | 2 |
| 7 | Lọc theo giá thấp | 2 |
| 8 | Lọc theo giá cao | 2 |
| 9 | Xem danh sách sản phẩm | 1 |
| 10 | Xem chi tiết sản phẩm | 2 |
| 11 | Khảo sát - Tư vấn lắp đặt tại nhà | 2 |
| 12 | Mua ngay | 1 |
| 13 | Mua trả góp | 1 |
| 14 | Thanh toán | 1 |
| 15 | Nhận tư vấn khi lắp đặt tại nhà | 2 |
| 16 | Nhận tư vấn khi mua trả góp | 2 |

Degree: 1 – Complex, 2 – Medium, 3 – Low

* + 1. *Out of scope testing*

There are some out of scope items:

* Database test
* Mobile test
* Performance test
* Security test
* API test
  1. *Test Levels and Test Types*
     1. *Test levels*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Test level** | **Method** | **People in charge** | **Note** |
| 1 | Integration test | Manual/Automation | Tester | * Testing the integration of systems and packages; testing interfaces to external organizations * Test to find defects in the interfaces and in the interactions between integrated components or systems |
| 2 | System test | Manual/Automation | Tester | Verify that the whole system meets with requirements |
| 3 | User acceptance test | Manual/Automation | Client | Client test the system to make sure that the system is met the requirement. To make sure the useablitiy, maintanceability, reliablity. |

* + 1. *Test types*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Test type** | **Method** | **People in charge** | **Notes** |
| 1 | Review requirement (static testing) | Manual | Tester | To verify the correction and level of detail of User Story |
| 2 | Review code | Automated/Manual | Dev team | Self-review, Peer Review |
| 3 | Functional testing (dynamic testing) | Automated/Manual | Tester/Dev team | Verify that the system meets functional requirement |
| 4 | Non-functional testing | Manual | Tester | Performance test, API test, Security test |
| 5 | Re-testing | Manual | Tester/Dev team | Testing after fixing bug to confirm the bug is removed |

* 1. *Testing risks*

|  |  |  |
| --- | --- | --- |
| **No.** | **Risk** | **Mitigation** |
| 1 | Khó xác định sai lệch dữ liệu | * Automation test có thể không phát hiện chính xác nếu sai sót về giá, khuyến mãi hoặc thông tin sản phẩm |
| 2 | Bỏ sót bộ lọc | * Automation test có thể không bao quát hết các trường hợp lọc khác nhau, dẫn đến việc bỏ sót lỗi khi lọc sản phẩm theo các tiêu chí khác nhau |
| 3 | Bỏ qua dữ liệu trùng lặp hoặc thiếu | * Automation test có thể không xác định được nếu có sản phẩm bị trùng lặp hoặc thiếu thông tin |
| 4 | Bộ lọc 'Kích thước' chưa xác định rõ đối tượng được áp dụng. | * Automation test có thể không xác định được rõ kết quả sau khi test. |
| 5 | Bộ lọc ‘Xuất xứ” không kiểm tra được chi tiết kết quả | * Trang web ngoài List không có danh sách xuất xứ để thuận tiện Automation Test kiểm tra theo list |

1. **TEST CRITERIA**
   1. *Entry Criteria*

The entry criteria refer to the conditions in order to start testing activities (test design, test execution):

1. The specification of a feature is approved and available on Jira before starting test design
2. Development completed (status must be Ready for test)
3. Features under test are already on QC/test environment
4. Test cases, test data are peer-review before test execution
   1. *Suspension Criteria*

The suspension criteria refer to the conditions that test activities will be suspended if suspension criteria are met during testing:

1. Any main flows are not covered
2. Main feature does not meet acceptance criteria
   1. *Exit Criteria*

The exit criteria are the targeted results of the test that need to be met to complete a test phase:

1. 100% of Test cases executed
2. No Critical, high, medium bug remaining
3. 5 % leakage (total bugs found by client / total bugs) : lọt lỗi sang khách hàng: khách hàng tìm được 5 bugs / 100 bugs team dự án tìm
4. **RESOURCE PLANNING**
   1. *System resource*

|  |  |  |
| --- | --- | --- |
| No. | Resources | Description |
| 1 | Server | * Servers: *[list out if have]* |
| 2 | Test tool | * Snagit: Provide evident for bugs * Jira, Zephyr: Task, bug tracking, Quality monitoring, Test case management, Test execution |
| 3 | Computer | * The PCs with hardware, software required |
| 4 | **Mobile device** | * *[list out iOS or android version if have]* |
| 5 | **Web browser** | * *[list out Browser version if have]* |

* 1. *Test Resource*

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Role** | **Start date** | **End date** |
| Tran Thi Hoan | Tester work 50% | 25-Nov, 2021 | 10-Jan, 2022 |
| Ho Tran Nhat Anh | Tester work 100% | 25-Nov, 2021 | 10-Jan, 2022 |
| Pham Thi Dinh | Tester work 100% | 25-Nov, 2021 | 10-Jan, 2022 |

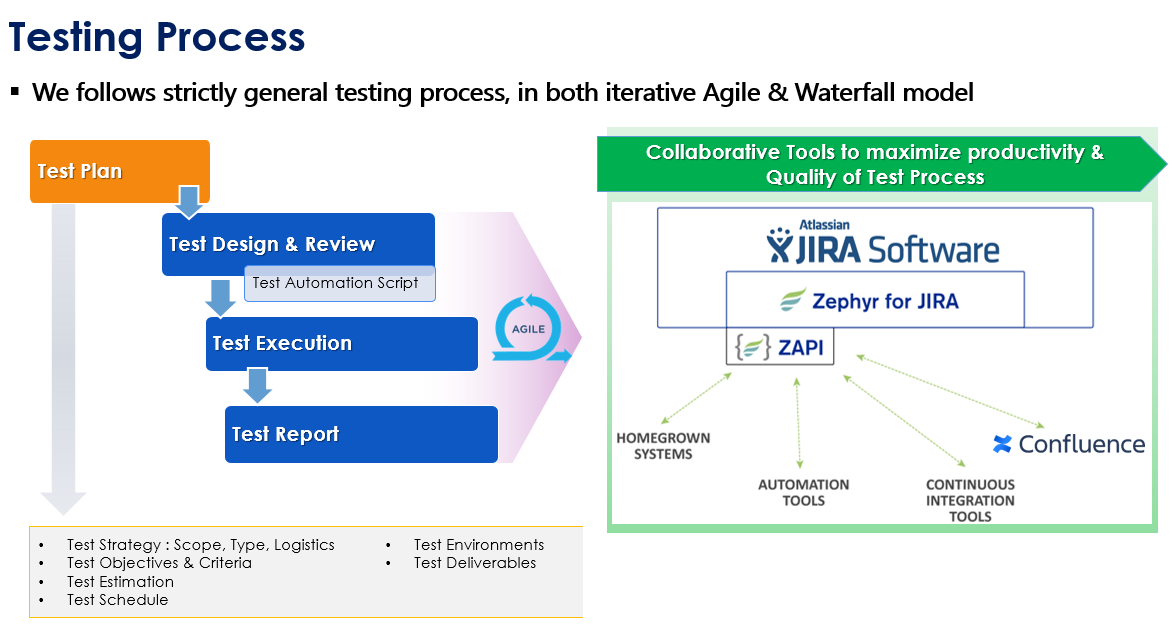
1. **SCHEDULE AND ESTIMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Task** | **Member** | **Estimation Effort**  **(Man-day)** |
| 1 | Create test plan | Team | 1 |
| 2 | Study & review requirements |  |  |
| 3 | Create test design, test cases |  |  |
| 4 | Test execution |  |  |
| 5 | Test report & Quality Control |  |  |

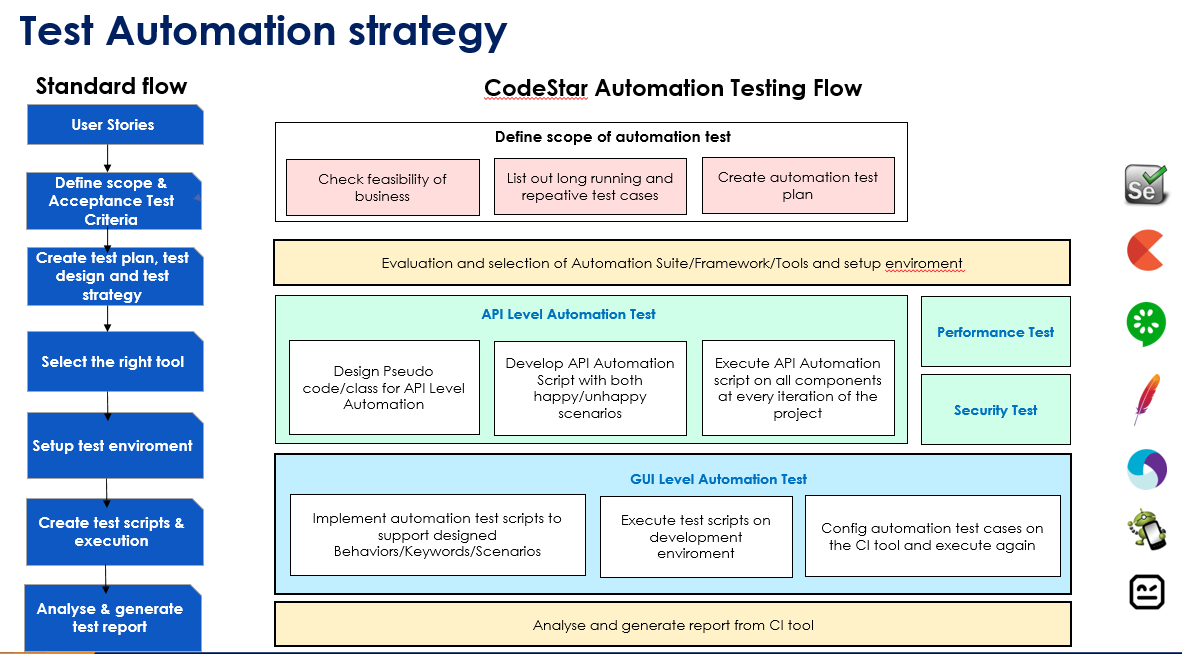
1. **TEST DELIVERABLE**

|  |  |  |
| --- | --- | --- |
| **Phase** | **Deliverable Name** | **How to access** |
| **Before testing** | Test Plan | Test plan will be uploaded on Confluence  <https://conf.codestar.com/display/CDIS/Test+plan> |
| Test cases documents | All test cases will be uploaded on Confluence and Zephyr which is an Jira’s Add-On.  Link Confluence:  <https://conf.codestar.com/display/CDIS/Test+cases>  - Jira filter:  Open Advanced Search, then enter below JQL:  *project = CDIS AND issue type = Test* |
| **During testing** | Test cycles | Each Sprint will have at least 1 test cycle for executing sets of test cases.  Please follow this example to filter the test cycle: |
| **After testing** | Test reports | Test reports will be created after each sprint and published on Confluence: [https://conf. codestar.com/display/CDIS/Test+reports](https://conf.gemvietnam.com/display/CDIS/Test+reports) |
| Bugs | All bugs logged on Jira   * Sprint bugs are sub-tasks of the corresponding User story * Bugs/Improvement are linked to User stories, not add into current sprint |

1. **AUTOMATION TESTING TOOL AND STRATEGY**
   1. *Testing process*



* 1. *Automation strategy*



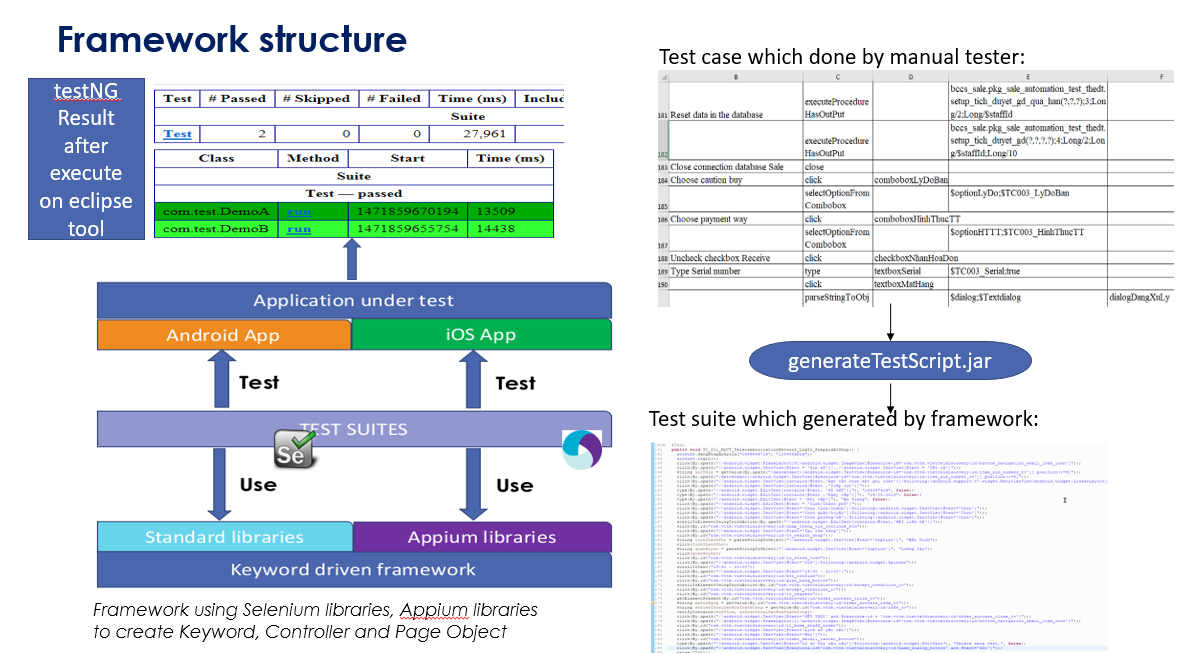
* 1. *Automation testing framework*

**Framework library/ tools:**

* Maven
* TestNG
* Github
* Selenium

**Language**:

* Java
* Python
* C#
* Javascript



1. **LIFECYCLE OF BUG AND RISK**

BUG LIFECYCLE

