Test strategy document

# **Document Control**

Approvals

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| **Name** | **Team** | **Title** | **Approved** |
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# **Testing Point of Contact**

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| --- | --- | --- | --- | --- | --- |
| **Project Name** | **Testing SME** | **Test Team** | **Reporting To** | **Tools Used** | other |
| Bunnings Website-search and results features | Karun Sreekantan | Digital | ABC |  |  |

# **Introduction**

Key features of the Test Strategy

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| **Tests are repeatable ,and deterministic** | Tests can be run over and over again with the same results , and they do not rely on uncontrolled ‘external’ factors such as values in other environments, an particular machine setup etc |
| **Tests shall be automated** | Once the environment has been configured , the tests run to completion without needing manual intervention. They can be run many times, as often as required, even several times a day. |

# Document Purpose

The purpose of this document is to outline the test strategy for the Bunnings Website- Search and Results feature project. In addition to other questions, it will primarily answer the following:

* Testing Phases: What type of testing is being done and how will it be carried out?
* Testing Tools: What tools will be used to assist testing and how?
* Environments: Where will testing take place??
* Scope: What is being tested?
* Resourcing: Who will be testing?
* Reporting: What will be reported, who needs to know and how will relevant parties be informed.

# Testing Process, Standards ,Objectives

# Introduction to Agile

Agile is an iterative and incremental approach to software development that is performed in a highly collaborative manner by self-Organizing teams within a control framework. Agile is people-centric, development and testing is performed in an integrated way, self-organizing teams encourage role interchange ability.

Guiding Standards

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| **Standard** | **Description** |
| Shared Responsibility | Everyone in the team is responsible for quality. |
| Test Management | Test cases, code, documents and data must be treated with the same importance as the production system. Test cases shall be maintained in JIRA and supporting articles shall be maintained in Confluence. |
| Test Automation | Attempt to automate all types of testing (Unit, Functional, Regression ,Performance ,Security) as far as feasible. Test Automation Code shall be maintained in GIT hub |

# Testing Phase

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| **Testing Scope** | **Description** | **Includes** | **Tools** | **Capability** | **Frequency** |
| Smoke testing | This includes verifying if the system/feature is acceptable to commencing testing. This is usually done before the test team can accept any feature for testing | This is usually done when a story moves from Dev to test. This will help capturing bugs very early in the test cycle and also gives early feedback. | -Selenium/WebDriver  -  Specflow+Runner(.NET) | Y | For deployment of each implemented story |
| System Testing | System Testing will focus on the behavior/function of the system under test. Testing activity is usually constrained within the system i.e. excluding other integrated components | -Search validation  -Text/link/Button and verification of other elements.  -URL Validation  -Labels/Error Messages | -Selenium/WebDriver  -  Specflow+Runner(.NET) | Y | For Each Story |
| Exploratory testing | This test is performed without a specific test plan and is unstructured testing. It is based on minimum planning and maximum execution. | Mostly manual test cases are executed | NA | Y | Usually after stories are developed and duration is for a number of hours per sprint. |
| Browser Compatibility Testing | Tests will focus on functionality on various browser types. | Automated tests will run on chrome | -Selenium/WebDriver  -  Specflow+Runner(.NET) | Y | For each story |
| Performance Testing | Page Responses:  Provide feedback on response times for loading of pages.  Load Testing:  To test the performance of system under load, both normal and peak load. This will include performing an operation with 100k user and verify the response time and system stability of the search feature . | Page Responses  Load Testing | Jmeter | y | After functional regression testing is complete. |
| Accessibility Testing | To Verify the software is accessible to users with special needs such as Visibility/hearing/disability. Test shall be based by Government ploicies,User requirement,Marketing compliance or internal company accessibility guidelines. | Includes ability to modify text Colour/Font for Visual Disability, all images shall have ALT field to describe image.User shall be able to maneuver around the website using keyboard only etc |  | Y | For each story with Accessibilty features ,if applicable |

# Test Reporting

Testing Status Reports will be provided in the tools relevant to the projects-e.g. Specflow,Jira,ExtentReport