**A screenshot of a cell phone

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SSD Selector Tool

Test Plan

Version 1.0

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| --- | --- |
| SSD Tool Selector | Version: 1.0 |
| Test Plan | Date: 03-08-2020 |
| Initial Draft | |

Revision History

|  |  |  |  |  |
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| **Date** | **Version** | **Description** | **Author** | **Approver** |
| 03/08/2020 | 1.0 | Initial Draft | Prashant Kinagi | 1. Lissette Cruz <cruz@hpe.com>  2. Narayanan Gomes <gomes.narayanan@hpe.com> |
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# Introduction

## Purpose:

This Test Plan document for the SSD Selector Tool supports the following objectives:

* Testing the GUI for the SDD Selector Tool
* Testing the SSD types with the different Configurations and Results displays with different SSDs requirements

## Background

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**Introduction about SSD Selector Tool**

SSD selector tool help the customer to choose the right SSD for their needs. In this documentation explain the product and its features.

**What is SSD?**

SSD – Solid State Drive is a new generation of storage device. It is Significantly faster due to their low read access time and fast throughputs.

**How HPE is Support for SSD?**

HPE is support their Customer to select the SSD based on the workload, Server type, Drive Capacity, Interface and Form factor.

**Search the SSD Based on the Server type and Server Model**

2.1 If the Customer knows what they are looking for in the search box they can enter the search keyword column fill with Option SKUID. It will display the exact SSD or else change the server type and server model based on that the result will display. Also, we can adjust the slider to get the required SSD.

2.2. The result page we can directly redirect from home page by clicking I know what I need, or else if we don’t know wat to search, we can click help me to choose option from home page.

## Help me to Choose Option

Help me to choose option will redirect to workload page. This page contains 3 options read option, read/write option, write option.

## Scope:

**GUI**

SSD Selector Tool GUI will be tested on Windows platform/Linux or MacOS with the different browser (Chrome/Mozilla/IE)

**Features**

SSD Selector Tool will be tested for the all the requirements mentioned in the SSD Selector Tool SRS Document.

* SSD Type of Workload
* Server Type
* Driver Capacity
* Interface and Form Factor
* Refine your results Page

**Performance**

The Performance test will measure the performance of the SSD Selector Tool Application, it will analyze the response to the use activity on the application.

**1.4 Project identification**

This testing will be done for the SSD Selector Tool Version 1.1

# 2. Requirements for test:

The following tools will be employed for this project:

|  |  |  |
| --- | --- | --- |
| **Tool** | **Vendor/In-house** | **Version** |
| PC/ Laptop | In-house | NA |
| Platform/OS | Vendor | Windows 10 |
| SSD Selector Tool Application | In-house | Chrome /Mozilla Fire Fox Browser |
| IDE | In-house | Eclipse |
|  |  |  |

# 3. Test Strategy

# 3.1 Basic Functionality Testing (BFT)

|  |  |
| --- | --- |
| Test Objective | To verify the Basic functionalities of the SSD Selector Tool. The success of this test will enable us to proceed further with the other tests. |
| Technique | This test will verify the basic functionalities of the SSD Selector Tool,   * Launching the SSD Selector Tool application in the Browser * Testing the basic validation in all pages of the SSD Selector Tool Application. * Testing the Page Navigation of the SSD Selector Tool Applications * Testing the based on the selected Workload is it displaying the correct Server type * Testing the Resulting page based on the configuration SSDs requirements are displayed |
| Completion criteria | All basic functionalities are verified with no errors and no bugs |
| Special Considerations | Performed on various OS Platforms and Different Browser Versions |

## 3.2 Functional Testing

|  |  |
| --- | --- |
| Test Objective | To verify the proper data acceptance, processing and retrieval and verify the interaction with the SSD Selector Tool via the GUI and analyzing the output and behavior. |
| Technique | Execute each use case, use-case flow, or function, using valid and invalid data, to verify the following:   * The expected results occur when valid data is used. * The appropriate error or warning messages are displayed when invalid data is used. * Each Button functions working as expected. * The files are downloaded in the specified format. |
| Completion criteria | All planned tests have been executed. |
| Special Considerations | Verify the functionality for different Operating systems and Different Browser Versions |

# 3.3 GUI Testing

|  |  |
| --- | --- |
| Test Objective | User Interface (UI) testing verifies a user’s interaction with the Application, the goal of UI testing is to ensure that the User Interface provides the user with the appropriate access and navigation through the functions of the target-of-test. In addition, UI testing ensures that the objects within the UI function as expected and Conform to corporate or industry standards |
| Technique | Navigation through the SSD Selector Tool interface properly reflects business functions and requirements, including window-to-window, field-to field, and use of access methods (tab keys, mouse movements, accelerator keys)   * Window objects and characteristics, such as menus, size, position, state, and focus conform to standards.   **Windows Compliance Testing**   1. Application 2. For Each Window in the Application 3. Text Boxes 4. Check Boxes 5. Command Buttons 6. Drop Down List Boxes 7. Combo Boxes 8. List Boxes 9. Slider Functionality   **Screen Validation Checklist**   1. Aesthetic Conditions 2. Validation Conditions 3. Navigation Conditions 4. Usability Conditions 5. Data Integrity Conditions 6. Modes (Editable Read-only) Conditions 7. General Conditions 8. Specific Field Tests 9. Data Field Checks |
| Completion criteria | Each window successfully verified to remain consistent or within acceptable standard. |
| Special Considerations | Verify the functionality for different Operating systems, Different Browser Versions and resolutions. |

## 

## 3.4 Features Testing

|  |  |
| --- | --- |
| Test Objective | To test all the Features of the SSD Selector Tool as given in the “SSD Selector Tool\_ SRS document”. |
| Technique | Test all the features as mentioned in the “SSD Selector Tool\_ SRS document” and verify that they operate accordingly  The Features are classified as follows   * Help Me Choose * Select the Workload * SSD type * Capacity, Interfaces and Form Factors * Validating the Results based upon the Configurations results should be displayed |
| Completion criteria | All Features are tested successfully without fail. |
| Special Considerations |  |

## 3.5 Performance Testing

|  |  |
| --- | --- |
| Test Objective | Performance test verifies response times, transaction rates, and other time sensitive  requirements are measured and evaluated. The goal of Performance Profiling is to verify performance requirements have been achieved. |
| Technique | Open the SSD Selector Tool application in the browser start interacting and observe the Response time for each page loading, time taken to download file in the Result page.  And holding the temporary data when we start with new SSD Selector Tool in the browser |
| Completion criteria | The SSD Selector Tool performs as expected under normal workload conditions. |
| Special Considerations | Test the performance of SSD Selector Tool in the Windows Platform, Linux and Mac OS |

## 

## 3.6 Failover and Recovery Testing

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| --- | --- |
| Test Objective | Failover and Recovery Testing ensures that the SSD Selector Tool can successfully failover and recover from a variety of hardware or software with undue loss of data or data integrity |
| Technique | * Close the SSD Selector Tool browser using process id in task manager. |
| Completion criteria | In all cases above, the application, and system should, upon completion of recovery procedures, return to a known, desirable state. |
| Special Considerations |  |

## 3.7 Documentation Test

Tests will be conducted to check the accuracy of the user documentation. These tests will ensure that no features are missing, and the contents can be easily understood.

**3.8 Beta Test**

We will beta test the new system by providing ‘Preview Releases’ to the community and reporting any defects that are found. This will subject the system to tests that could not be performed in our test environment. User Acceptance Test

Once the system is ready for implementation, we will perform User Acceptance Testing. The purpose of these tests is to confirm that the system is developed according to the specified requirements and is ready for operational use.

## 3.9 Upgrade Test

Upgrade testing will ensure that customers can upgrade from previous versions of SSD Selector Tool to newer versions and be able to use it without issues.

# Deliverables

## Test cases

Will be providing in excel document.

## Test Report

Will be provided in excel document.