**Test Plan**

**Test Objective**:

* Test the Marvel fan dashboard homepage to see the list of Marvel characters
* Perform scroll to load all the Marvel characters
* Perform search to filter the Marvel characters
* Select specific characters to explore their details

**Test Scope**:

* Search and Filter functionality on Marvel fan dashboard homepage
* Scrolling/Paginating functionality on Marvel fan dashboard homepage
* UI verification of Marvel character List to ensure the below mandatory details display on desktop:
* Thumbnail image
* Name
* Number of comics
* Published date
* UI verification of Marvel characters
* Integration test between Marvel fan dashboard and Marvel Character Page
* UI verification of Marvel Character Page

**Out of Scope**:

* Sorting on the Marvel fan dashboard homepage
* Testing on Mobile devices
* Testing the Marvel API
* Data testing to verify all Marvel Characters

**Test Scenarios**:

* **Test Scenario 1:** Verify initial list of Marvel characters upon page load on desktop
  + **Test Case 1.1:** Verify that the thumbnail image is displayed for each character on the initial list.
  + **Test Case 1.2:** Verify that the name is displayed for each character on the initial list.
  + **Test Case 1.3:** Verify that the number of comics is displayed for each character on the initial list.
  + **Test Case 1.4:** Verify that the published date is displayed for each character on the initial list.
* **Test Scenario 2: Verify user scroll functionality**
  + **Test Case 2.1:** Verify that additional character’s load on scrolling down (manual execution)
  + **Test Case 2.2:** Verify that all characters are load on reaching the page end.
  + **Test Case 2.3:** Verify that user cannot scroll down after reaching the page end (manual execution)
* **Test Scenario 3: Verify search and filter functionality**
  + **Test Case 3.1:** Verify that on searching a character name, the character list gets updated to display matching results
  + **Test Case 3.2:** Verify that on searching a character name with no matching results the message "No characters found." is displayed
  + **Test Case 3.2:** Verify that on deleting the search term, the initial list of characters load on the page (manual execution)
* **Test Scenario 4: Verify Character page**
  + **Test Case 4.1:** Verify user is navigated to correct character page on clicking any character
  + **Test Case 4.2:** Verify thumbnail image loads on the character page (manual execution)
  + **Test Case 4.3:** Verify character name displays as heading on the character page (manual execution)
  + **Test Case 4.4:** Verify initial list loads when user navigates back from character page to dashboard homepage (manual execution)

**Success Criteria**:

* All above listed test cases executed successfully.
* All open bugs have low severity.

**Test Levels**:

* Component testing in the Marvel fan dashboard (Search box, Scrolling/Paginating)
* Integration testing between search box and Character page
* System testing

**Test Methods:**

* Manual testing (Blackbox: functional testing)
* Automation testing
* Exploratory testing

**Test Application**: Website: <https://marvel-dashboard-seven.vercel.app/characters>

**Suspension Criteria**:

* Application down

**Test Deliverables**:

* Test Plan
* Automated Test Code
* Test Report