TEST PLAN

‘LOG ACCESS’

*ChangeLog*

| **Version** | **Change Date** | **By** | **Description** |
| --- | --- | --- | --- |
| 1.0 | 21/05/2024 | Kevin Suarez San Martin | Creation and completion of the test plan |
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# **Introduction**

A new ‘Log Access’ feature is delivered as part of an existing web developer portal. The main goal of the project is to cover the testing of this new functionality following manual and automated test techniques. The solution is a new web functionality where users will be able to look for stored logs of the API calls that have been executed and open these logs to see the content.

## **Scope**

### In Scope

* Web page functionalities
* APIs involved in the process
* Regression test to review that all previous functionalities work well

### Out of Scope

All features outside the new ‘Log Access’ functionality will be out of scope. Such as other web pages in the portal, load testing and performance testing.

## **Quality Objective**

* Ensure the Application Under Test conforms to functional and non-functional requirements
* Ensure the AUT meets the quality specifications defined by the client
* Bugs/issues are identified and fixed before go live
* Ensure that an automated solution is developed and deployed

# Resource & Environment Needs

## **Testing Tools**

Following tools will be needed to have a full coverage of testing parts:

* Requirements Tracking Tool
* Bug Tracking Tool (Jira)
* Automation Tools
  + Selenium
  + Postman
  + CI/CD

Required to test the project

## **Test Environment**

Following **hardware** is required:

* Computer o smartphone with internet connection available and with access to the resources under test

Following **software** is required:

* Web Browser (Google Chrome, Microsoft Edge, Mozilla Firefox…)
* Text file reader (Notepad, Notepad ++...)

# Test Scenarios & Test cases

## Test Scenarios

These are the test scenarios for the project:

* Check the access to the resource
* Check the Search functionality
* Check the log download/view action

## Test Cases

* Resource Access
  1. Verify that the web page ‘Log Access’ is available and can be accessed
  2. Verify that the correct error message is shown when the ‘Log Access’ resource is not accessible
* Search functionality
  1. Verify that a user part of an AD group can search logs
  2. Verify that a user out of any AD group cannot see any logs
  3. Verify that environment and API Name attributes are mandatory fields using the filter
  4. Verify that only logs with App and/or API name that contain the words used in API Name attribute are shown if the ‘In’ option is selected
  5. Verify that only logs with App and/or API name that don’t contain the words used in API Name attribute are shown if the ‘Not in’ option is selected
  6. Verify that more than one API or App name can be used at the same time in the filter
  7. Verify that only logs related to requests with the response status code used in ‘Response Code’ attribute are shown if the ‘In’ option is selected
  8. Verify that only logs related to requests that don’t have the response status code used in ‘Response Code’ attribute are shown if the ‘Not in’ option is selected
  9. Verify that more than one response status can be used at the same time in the filter
  10. Verify that ‘Path&query’ filter is correctly applied
  11. Verify that more than 1000 characters are not allowed in the ‘Path&Query’ attribute
  12. Verify that ‘Period’ filter is correctly applied
  13. Verify that the same date+minute cannot be selected in the filter
  14. Verify if the period selected is higher than 14 days from the current time, no logs are shown
  15. Verify that after applying the filter only 300 results are shown even there are more than 300 results for the query
  16. Verify that ‘Reset All’ button clear all the attributes in the filter
* View log:
  1. Verify that log can be viewed clicking on it
  2. Verify that logs can be downloaded using the download button
* Verify that environment and API Name attributes are mandatory fields using the filter

**Assumptions:** Accessing to the resource with a valid user that is part of an AD group

| **Order** | **Step** | **Expected Result** |
| --- | --- | --- |
| 1 | Verify that ‘Environment’ attribute is empty and select one value for ‘API Name’ attribute | The ‘Environment’ attribute is empty and ‘API Name’ attribute is not empty |
| 2 | Click on ‘Apply’ button to apply the filter and search | The button is correctly clicked |
| 3 | Verify that an error message is shown saying that ‘Environment’ attribute has to have a value and cannot be null | The error message is shown |
| 4 | Click on ‘Reset All’ button to reset all attributes inside the filter | The attributes are correctly reseted |
| 5 | Verify that ‘API Name’ attribute is empty and select one value for ‘Environment’ attribute | The ‘API Name’ attribute is empty and ‘Environment’ attribute is not empty |
| 6 | Click on ‘Apply’ button to apply the filter and search | The button is correctly clicked |
| 7 | Verify that an error message is shown saying that ‘API Name’ attribute has to have a value and cannot be null | The error message is shown |
| 8 | Click on ‘Reset All’ button to reset all attributes inside the filter | The attributes are correctly reseted |
| 9 | Verify that ‘Environment’ and ‘API Name’ attributes are empty | Both attributes are empty |
| 10 | Click on ‘Apply’ button to apply the filter and search | The button is correctly clicked |
| 11 | Verify that an error message is shown saying that ‘Environment’ and ‘API Name’ attributes have to have a value and cannot be null | The error message is displayed |

## Test Data

In this section, the possible data that can be used is shown:

* Users:
  + User part of an AD Group
  + User out of any AD Group
* Environment:
  + Development
  + Testing
  + Production
  + Empty
* API Name:
  + apim-mock-target-v1
  + apim-mock-target-v2
  + Empty
* Response code:
  + 200 OK
  + 403 Forbidden
* Path&Query:
  + my-api-v1/products/\*
* Period:
  + 2024-05-20 10:50 UTC - 2024-05-20 12:33 UTC
  + 2024-05-20 10:50 UTC - 2024-05-20 10:50 UTC
  + 2024-03-20 10:50 UTC - 2024-04-20 10:51 UTC

# **Terms/Acronyms**

Terms or acronyms used in the project

| **TERM/ACRONYM** | **DEFINITION** |
| --- | --- |
| API | Application Program Interface |
| AUT | Application Under Test |