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# **1. Introduction**

This test plan describes the approach to test automation of Mieles S.A.S. Backend APIs, using the Karate platform as the main automation tool. The objective is to select and automate four fundamental HTTP methods: GET, POST, PUT and DELETE, following the documentation provided at https://reqres.in/.

## **1.1 Test Objectives**

* **Verify basic API functionality:** Ensure that the APIs respond correctly to the selected HTTP methods (GET, POST, PUT and DELETE) and return the expected data according to the documentation.
* **Validate HTTP status code:** Check that the APIs return the correct HTTP status code for each test scenario, indicating the success or failure of the operation.
* **Confirm data structure and format:** Validate that the structure and format of the JSON data response by the APIs are consistent with the documentation.

# **2. Testing Strategy**

* The HTTP methods to be tested are selected.
* The Postman tool is used to make requests that simulate the use of the API.
* Test cases are designed to validate the selected HTTP methods, including the critical path and alternate path.
* Scripts are created to automate tests on HTTP methods.

# **3. Scope of Testing**

Testing will focus on the following:

* **Methods HTTP:** GET, POST, PUT and DELETE.
* **Basic functionality:** Verification of basic API functionality as per documentation.
* **Status codes HTTP**: validation of status codes HTTP returned by the APIs.
* **Data structure and format:** Confirmation of JSON data structure and format in the responses.

# **4. Tools**

* Postman
* IntelliJ IDEA
* Karate

# **5. Resources**

* Staff: Tester with experience in API Automation - Jhonny Aldair Ortega Ortega.
* Access to the test environment where the API is hosted.