**1. Introduction**

**Purpose**:  
This document provides details about the automated **Postman** tests for the Airalo API. The automation scripts verify the functionality and error handling of the API endpoints.

**Scope**:  
The automation covers authentication, sending requests to various API endpoints, and validating the responses to ensure correctness.

**2. Prerequisites**

**Software Requirements**:

* Postman (latest version)
* Node.js (if using Newman for command-line execution)

**Environment Setup**:

1. **Install Postman**: Download and install Postman from [Postman's official website](https://www.postman.com/downloads/).
2. **Install Newman** (Optional): If running tests via command line, install Newman globally:

npm install -g newman

**3. Script Overview**

**Postman Collection**:  
The API automation is organized into a Postman Collection named AiraloAPIsValidation. This collection includes requests for various API endpoints and tests to validate the responses.

**Tests Included**:

* **Authentication**: Tests the process of obtaining and validating tokens.
* **Submit Order**: Verifies successful and erroneous order creation.
* **Get eSIM List**: Ensures eSIMs can be retrieved correctly and have expected properties.

**4. Usage Instructions**

**How to Import the Collection**:

1. Open Postman.
2. Go to the "Collections" tab.
3. Click "Import" and upload the AiraloAPIsValidation.postman\_collection.json file.

**Running Tests in Postman**:

1. Select the collection in the "Collections" tab.
2. Click "Runner" (at the bottom of the interface) to open the Collection Runner.
3. Configure the environment and run the tests.

**Command Line Execution with Newman** (Optional):

newman run AiraloAPIsValidation.postman\_collection.json

**Configuration**:

* **Collection File**: AiraloAPIsValidation.postman\_collection.json
* **Environment File**: XYZ\_API\_Environment.postman\_environment.json (Includes variables like API base URL, credentials)

**5. Detailed Functionality**

**Request Access Token**:

* **Request**: POST to [*https://sandbox-partners-api.airalo.com/v2/token*](https://sandbox-partners-api.airalo.com/v2/token)
* **Body**: formdata

|  |  |  |
| --- | --- | --- |
| client\_id | {{clientID}} | Required |
| client\_secret | {{clientSecret}} | Required |
| grant\_type | client\_credentials | Required |

* **Parameters**: grant\_type, client\_id, client\_secret
* **Tests**: Validate successful token retrieval and response structure.

**Submit Order**:

* **Request**: POST to *https://sandbox-partners-api.airalo.com/v2/orders*
* **Body**: formdata

|  |  |  |
| --- | --- | --- |
| quantity | 6 | Required |
| package\_id | merhaba-7days-1gb | Required |
| type | sim | Optional |
| description | 6 merhaba-7days-1gb | Optional |

* **Tests**: Check for successful creation (status 200) and error scenarios (status 422).

**Get eSIMs List**:

* **Request**: GET to *https://sandbox-partners-api.airalo.com/v2/sims*
* **PARAMS**

|  |  |  |
| --- | --- | --- |
| include | order, order.status,order.user | Optional |
| filter[created\_at] | Y-m-d - Y-m-d | Optional |
| filter[iccid] | 8944465400000217735 | Optional |
| limit | 100 | Optional |
| page | 1 | Optional |

* **Tests**: Ensure response contains the correct number of eSIMs and expected package\_id.

**6. Error Handling and Logging**

**Error Handling**:

* **Authentication Errors**: Log failed token requests.
* **Request Errors**: Log failed requests and responses indicating errors.

**7. Testing and Validation**

**How to Test the Collection**:

* Run the collection in Postman and verify that all requests pass successfully.

**Expected Outcomes**:

* **Successful Requests**: Status 200, valid response bodies.
* **Error Scenarios**: Correct status codes (e.g., 401, 422), appropriate error messages.

**8. Troubleshooting**

**Common Issues**:

* **Token Retrieval Fails**: Ensure client credentials are correct.
* **Request Fails**: Verify endpoint URLs and request payloads.

**9. References**

**API Documentation**:

* [Airalo API Documentation](https://partners-doc.airalo.com/)

**Postman Documentation**:

* [Postman Documentation](https://learning.postman.com/docs/introduction/overview/)

**10. Appendices**

**Code Snippets**:

* Example test script for authentication in Postman.

**Glossary**:

* **OAuth2**: A protocol for authorization.
* **Newman**: Command-line tool for running Postman collections.