

Task 1: API Test

Test Plan:

1. **Objective:** Verify that customers can successfully log in with valid credentials and that invalid credentials do not lead to a successful login.
2. **Test Approach:**
 - **Positive Test Case:**
 - Verify that a customer can successfully log in using valid credentials.
 - **Negative Test Cases:**
 - Verify that using invalid credentials does not lead to a successful login.
3. **Test Data:**
 - Valid credentials (username: shop-user@redteclab.com , password: aA1!bB2@cC3#dD4\$).
 - Invalid credentials (any random username and password).
 - API Curl (Openapi collection)
 - Api server: api.sa-tech.de
4. **Test Environment:**
 - Use the provided OpenAPI contract service to construct API requests.
 - Use Swagger, Postman to run API tests.
5. **Acceptance criteria:**
 - Using valid credentials, a customer can successfully log in.
 - Using invalid credentials will not lead to a successful login.
6. **Test Case**
 - Valid Login
 - Invalid Login using invalid password
 - Invalid login using invalid username
 - Invalid Login using empty password
 - Invalid login using empty username
 - Invalid login using invalid username and password
 - Invalid username format (invalid Email format)
 - Invalid password format (invalid characters based on related story/feature)
 - Invalid password length (based on related story/feature)
 - Incorrect api input
 - Incorrect api header: Content-Type/ Device-Type

Test Case name: Valid Login

Test Case ID: TC001

Priority: High

Setup Info:

- Platform: OpenApi (Contract Service)
- Version: 3.0.3
- Description: BuLLy Server
- Related Task ID (based on task management tool): 1

Preconditions:

- API endpoint is accessible (<https://api.sa-tech.de/auth/v2/login>)
- Valid customer credentials are available.

Exit Criteria:

- Verify that a customer can successfully log in using valid credentials.

Test Steps:

1. Send a POST request to the login API endpoint with valid credentials.
 - URL: <https://api.sa-tech.de/auth/v2/{tenant}/login> (replace {tenant} with at, ch, com, fr, it)
 - Headers:
 - Content-Type: application/json
 - Sae-Device-Type: browser (or iosApp or androidApp)
 - Request Body:
 - json

```
{
  "username": "shop-user@redteclab.com",
  "password": "aA1!bB2@cC3#dD4$"
}
```
2. Verify that the response status code is 201 (Success).
3. Verify that the response contains a valid JWT token.
4. Verify that the token type in the response is "bearer."

Expected Result:

- The API should return a 201 status code with a valid JWT token.

Actual Result:

- Bad Request (400 error)

Test Data:

- Valid username: "shop-user@redteclab.com"
- Valid password: "aA1!bB2@cC3#dD4\$"

Comments:

- Related service doc (contract.yml) exists in github (qachallenge/Task1/contract.yml)
- Use <https://editor.swagger.io/> for generating CURL
- After I decode the JWT token, I realize that issuer address (auth.redteclab.com) is different with given address (api.sa-tech.de).