



WELCOME TO THE WORLD OF HEALTH!



Quality Assurance: Practical Task

Hi there and thank you for your interest in working with us 😊.

We would really like to know more about the way you work, so we think that starting with a small Quality Assurance Practical Task is a great way to get an idea of your style. Since we value your time a lot, we do not think that you should spend more than 2 hours on this task.

We are sharing a real Shop Apotheke case in which we would like you to:

- Write a test plan / test approach in bullet point format.
- Design one detailed test case. Others can be reduced to headlines.
- Implement test automation for one of the two following (you decide which one you prefer):
 - endpoint defined by contract, using JAVA or JavaScript/TypeScript
 - functionality displayed in GUI, using Java or JavaScript with Selenium or Cypress
- Document any findings in bullet point format

Please store the end result as a public GitHub repository. We will have a follow up call, where you can guide us through your implementation and discuss your decisions.

Task details

Below please find the:

- Business requirement(s)
- API Contract (YAML)
- Screen designs (Abstract)
- Link to frontend implementation

Business requirements

A customer is able to successfully log in with valid credentials

Acceptance Criteria

- Using valid credentials, a customer can successfully log in.
- Using invalid credentials with not lead to a successful login.

Service development

An endpoint has been provided to log in a customer Wirth given credentials

Contract

```
openapi: 3.0.3
info:
  title: API documentation
  contact:
    name: Shop Apotheke
    url: https://www.shop-apotheke.com
    email: info@shop-apotheke.com
  description: API Server
  license:
    name: private
  termsOfService: 'www.shop-apotheke.com'
  version: 1.0.0
servers:
  - description: default
    url: 'https://{host}/{cacheable}'
    variables:
      cacheable:
        enum:
          - cacheable
          - static
        default: cacheable
      host:
        enum:
          - api.sa-tech.de
        default: api.sa-tech.de
paths:
  '/auth/v1/{tenant}/login':
    post:
      parameters:
        - allowEmptyValue: false
          deprecated: false
          description: ControllerParam tenant
          in: path
          name: tenant
```

```

        required: true
        schema:
          enum:
            - at
            - ch
            - com
            - fr
            - es
            - it
          type: string
      - $ref: '#/components/parameters/customer-authentication-device-type-
header'
    requestBody:
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/LoginRequest_v1'
          required: true
    responses:
      '201':
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/LoginResponse_v1'
            description: SuccessResponse
      '400':
        $ref: '#/components/responses/BadRequest-authentication'
      '504':
        $ref: '#/components/responses/504'
    tags:
      - AuthController
components:
  parameters:
    customer-authentication-device-type-header:
      deprecated: false
      in: header
      name: Sae-Device-Type
      required: false
      schema:
        enum:
          - browser
          - iosApp
          - androidApp
        type: string
        example: 'browser'
        default: 'browser'
        description: >-
          Describes the type of a device that is used to access the API.
          Defaults to Browser if none is specified
      schemas:
        LoginRequest_v1:
          example:
            customerNumber: '123456789'
            password: aA1!bB2@cC3#dD4$
          properties:
            customerNumber:
              type: string

```

```

    password:
      type: string
  LoginResponse_v1:
    example:
      token:
        eyJhbGciOiJSUzM4NCJ9.ewogICJzdWIiOiAiMTExOTg5OTM0IiwKICAicm9sZSI6ICJSRUdJU1RF
        UkVEIiwKICAidGVuYW50IjogImNvbS1xcyIsCiAgInR5cGUiOiAiQUNDRVNTIiwKICAia2V5VmVyc
        2lubiI6ICJjMjQ1MzVlOC0yMzQyLTQ2N2QtODVmYy1jNmJkYWl0eXZDY4MmUiLAogICJleHAiOiA5Nj
        AlODg1MDC3LAogICJleHBSZWZyZXNoIjogIjIwMjItMTU6MTY6MTcuODY2WiIsCiAgImp
        0aSI6ICI1NzljZjk5OC1kNjBkLTQ2YTktOWNlNiIiYmE5ODJjY2YzZDMiLAogICJpc3MiOiAiYXV0
        aC5yZWROZWNSYWluY29tIiwKICAiaWF0IjogMTYwNTc5ODY3Nwp9
      tokenType: bearer
    properties:
      tokenType:
        type: string
      token:
        type: string
  Authentication400:
    properties:
      statusCode:
        type: number
      error:
        type: string
      message:
        type: string
      invalidParams:
        type: array
      items:
        $ref: '#/components/schemas/InvalidParam'
    example:
      statusCode: 400
      error: Bad Request
      message: Validation Exception
      invalidParams:
        - field: password
          key: parameter.error.empty
  GatewayTimeout:
    properties:
      statusCode:
        type: number
      error:
        type: string
      message:
        type: string
    example:
      statusCode: 504
      error: Gateway timed out
      message: Connection to service timed out
  InvalidParam:
    properties:
      field:
        type: string
      key:
        type: string
    example:
      field: subscriptionType
      key: mailing.subscription.missing.mandatory.field

```

```

responses:
  BadRequest-authentication:
    description: Bad Request
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Authentication400'
  '504':
    description: Gateway Timeout
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/GatewayTimeout'

```

Screen design

The screen design can be seen below. The current implementation is also available on <https://www.shop-apotheke.com/nl/login.htm>

The screenshot shows the Shop Apotheke website's login and registration interface. The top navigation bar includes the Shop Apotheke logo, a newsletter sign-up button, and links for account management and search. Below the navigation bar is a dark blue header with category links and a RedPoints loyalty program icon. The main content area is titled 'Anmelden' (Login) and features two columns. The left column is for existing users, with fields for email and password, a 'Passwort vergessen?' link, and an 'Anmelden' button. The right column is for new users, with fields for gender, first and last name, email, password, and birth date, followed by a 'Registrieren' button. At the bottom, there are four green checkmarks highlighting service benefits: 'Schnelle Lieferung', 'Sicherer Einkauf', 'Geschützte Daten', and 'TÜV-zertifiziert'.

Have fun! We look forward to receiving your solution 😊