# Practical Coding Task Test Report

## Scope:

According to provided documentation, the tests will resolve around an API with 4 known methods available, with Basic authenthication.

## Out of Scope:

Testing accessibility to methods depending on various user access level.  
Testing behaviour depending on different content-type, headers etc.

## Overview

With the provided documentation 19 test scenarios were drafted. Some scenarios should be reviewed as intended behaviour is not always clear from documentation itself.  
Due to missing user credentials, the actual tests were not performed, as all requests were returning 401 Unauthirized status code. Thus, there is only 1 bug to report at this time.

## Bug report

Priority: **Blocker**  
Severity: **Blocker**  
Description: Documentation is missing user credentials in order to pass Basic Authentication.  
Steps to reproduce:

1. Send the curl request as is provided.

## Test Scenario Draft Overview:

#### Get

Scenario: sending sample GET  
 Given I send generic GET call  
 Then operation is successful  
 And I GET a list of existing books  
  
Scenario: sending sample GET by Id  
 Given I GET a list of existing books  
 When I send generic GET by Id call Existing  
 Then operation is successful  
 And I GET that book  
  
Scenario: sending sample GET by Id  
 Given I GET a list of existing books  
 When I send generic GET by Id call not Existing  
 *#to be determined if operation should be successful  
 #Then operation is successful?  
 #And I GET error or empty book*

#### Post

* Feature: send sample POST call  
    
   Scenario: sending sample POST  
   Given I GET a list of existing books  
   When I send generic POST call  
   Then operation is successful  
   And I receive POST response  
   And I verify the book exist  
    
   Scenario: sending same consecutive POSTs  
   Given I GET a list of existing books  
   When I send generic POST call  
   Then operation is successful  
   And I receive POST response  
   And I verify the book exist  
   When I send generic POST call  
   Then operation is successful  
   And I receive POST response  
   And I verify the book exist

#### PUT

Scenario: sending sample PUT  
 Given I GET a list of existing books  
 When I send generic PUT call for last book  
 Then I receive PUT response  
 And I verify the book update  
  
  
 Scenario: checking if PUT can create a new book  
 Given I GET a list of existing books  
 When I send generic PUT call for nextId book  
 Then I receive PUT response  
 And I verify the book exist  
  
Scenario: checking if PUT can update the book with ID of an existing book  
 Given I GET a list of existing books  
 When I send generic PUT call for existing book with existingId  
 Then I receive PUT response  
 And I verify the book exist  
  
Scenario: checking if PUT can update the book with null ID  
 Given I GET a list of existing books  
 When I send generic PUT call for existing book with null as Id  
 Then I receive PUT response  
 And I verify the book exist

#### Delete

* Background:  
   Given I GET a list of existing books  
   And I create a new Book  
   And I verify book created  
    
   Scenario: sending sample DELETE  
   Given I send generic Delete call on the book  
   Then operation is successful  
   And I receive Delete response  
   And I verify the book was removed  
    
   Scenario: sending same DELETE twice  
   Given I GET a list of existing books  
   When I send generic Delete call on the book  
   Then operation is successful  
   And I receive Delete response  
   And I verify the book was removed  
   When I send generic Delete call on the book  
   *# to be determined if error is the correct behaviour  
   #Then I receive erro*

#### Exploratory scenario

Scenario: sending sample GET  
 Given I send generic GET call  
 When I receive GET response  
 When I create a new Book  
 Then operation is successful  
And I verify the book exist  
 And I can find the Book by Id  
 When I update the Book  
 Then operation is successful  
 And Book is updated  
 When I update the Book  
 Then operation is successful  
 And Book is updated  
 When I delete the Book  
 Then operation is successful  
 And Book is deleted

#### *DataValidation scenarios*

**NOTE**: currently tests below are disabled, with testing blocked due to Unauthorized, some steps are pending implementation

Scenario: Book with negative price  
 Given I GET a list of existing books  
 When I create Book with negative price  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
 Scenario: Book with negative pages  
 Given I GET a list of existing books  
 When I create Book with negative pages  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
 Scenario: Book with no author  
 Given I GET a list of existing books  
 When I create Book with no author  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
 Scenario: Book with no publisher  
 Given I GET a list of existing books  
 When I create Book with no publisher  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
 Scenario: Book with no category  
 Given I GET a list of existing books  
 When I create Book with no category  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
  
 Scenario: Book with no price  
 Given I GET a list of existing books  
 When I create Book with no price  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created  
  
  
 Scenario: Book with no pages  
 Given I GET a list of existing books  
 When I create Book with no category  
 Then operation is NOT successful  
 And I receive POST response  
 And I verify book is NOT created