Test report Smoke-it web shop

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Introduction

This document will used to document the results of the tests for the smoke-it application. There will be a section for the unit and integration test. The results are tracked via SonarQube and will be stated in the form of code coverage.

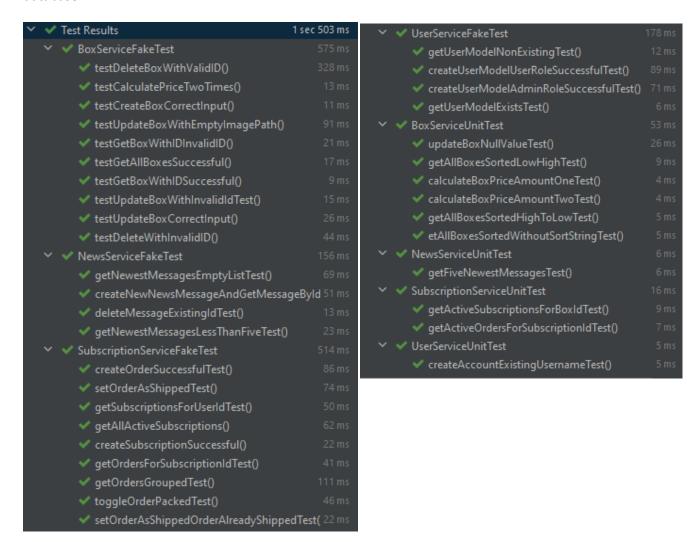
The back-end has another form of testing. These are the system test performed via postman. Like mentioned in the test strategy in the test plan file, these tests have to be performed manually. The option to automate them is there, and will hopefully be used in the future. For now, these tests are nothing more than API calls to my back-end, that can be seen as successful by checking the return body of the request. Screenshots of these will be provided.

For testing the whole system there are 2 ways of testing currently set up. The first being the User Acceptance Testing (UAT). These tests have to be performed by a user of the application. Currently, there are one or more test cases for each of the user stories. The tests have been set up in a way to cover all of the user story's acceptance criteria.

The last form of testing documented in this file will be the End to End (E2E) test, performed with the help of cypress. These E2E tests will test all of the user stories currently present in the application. At this moment these tests have not all been setup. The results of the present tests will be shown in the form of a screenshot, showing the successful result.

Unit & Integration test

The way of testing should be clear by reading the test strategy in the test plan document. Since listing all tests hear does not feel like very useful, I included a screenshot with the title of each unit and integration test present in the application. The should give a good indication of how the tests are set up. The fake tests are the integration test, and are called like that since they use a fake version of the database.



Below you can find a screenshot of the test coverage calculated by SonarQube. This test coverage is not including every file in the project. Some files, like the spring security, will not be tested by the unit and integration tests, since the security is needed when accessing the application from outside of the app. Next to that, controllers and model converters have been excluded, since they will be tested by both the system test and the E2E test.

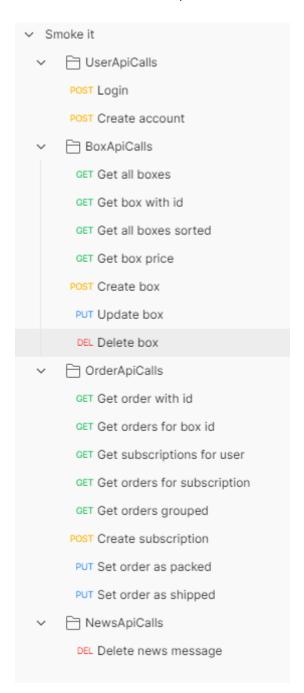
The picture shows the total coverage over all listed files. Files not listed here are excluded like explained above.

school	View as	■ List	*	1	to sel	ect files -	- → to navi	gate 15 files
Coverage 87.8% 🗻					New Code: Since October 21, 2021			
						Coverage	Uncovered Lines	Uncovered Conditions
src/main/java/fontys/sem3/smoke_it/SmokeltApplication.java						33.3%	2	-
src/main/java/fontys/sem3/smoke_it/model/GroupedOrders.java						69.2%	4	-
src/main/java/fontys/sem3/smoke_it/model/NewsMessageModel.java						69.6%	4	3
src/main/java/fontys/sem3/smoke_it/repository/DataSourceNews.java						71.4%	2	-
src/main/java/fontys/sem3/smoke_it/model/SubscriptionModel.java						74.4%	8	2
src/main/java/fontys/sem3/smoke_it/model/UserModel.java						84.0%	1	3
src/main/java/fontys/sem3/smoke_it/service/SubscriptionService.java						88.5%	3	7
src/main/java/fontys/sem3/smoke_it/model/BoxModel.java						89.3%	0	3
src/main/java/fontys/sem3/smoke_it/service/NewsService.java						93.1%	1	1
src/main/java/fontys/sem3/smoke_it/service/BoxService.java						97.0%	1	0
rc/main/java/fontys/sem3/smoke_it/repository/DataSourceBoxes.java						100%	0	0
src/main/java/fontys/sem3/smoke_it/repository/DataSourceSubscriptions.java						100%	0	0
src/main/java/fontys/sem3/smoke_it/repository/DataSourceUser.java						100%	0	-
src/main/java/fontys/sem3/smoke_it/model/OrderModel.java						100%	0	-
src/main/java/fontys/sem3/smoke_it/service/UserService.java						100%	0	0
15 (of 15 shown							

System test

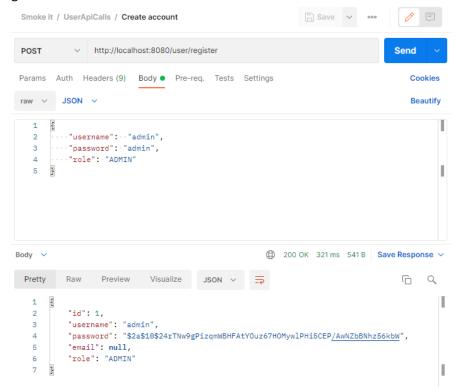
Like mentioned in the introduction, the system tests are performed in postman, manually. Below you can find a screenshot for each of these 'tests'. There is no test setup to check the returned body, so if the body is unclear you can find a short description below the picture to elaborate why the shown body can be seen as successful.

First an overview of all end points:



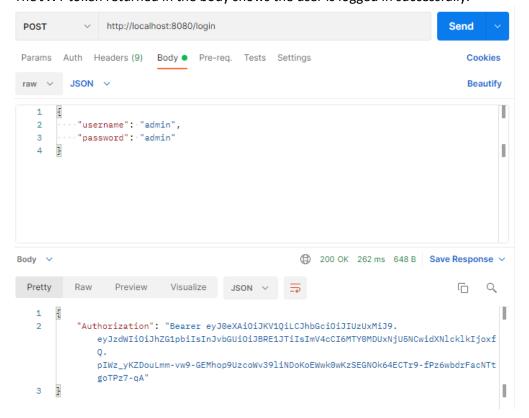
Create a new user:

The response body shows the newly created user object, with encrypted password and auto generated ID.



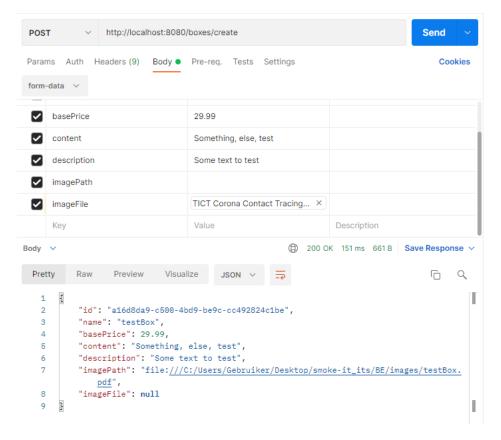
Login:

The JWT token returned in the body shows the user is logged in successfully.



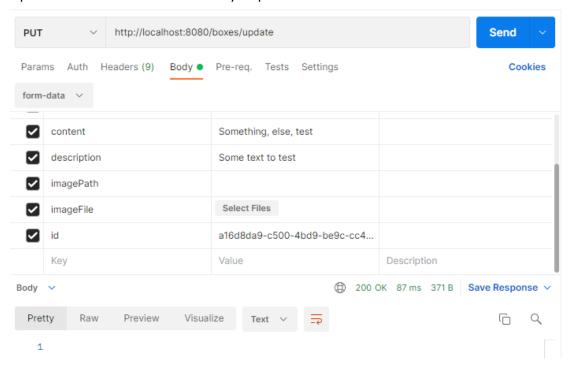
Create box:

The body shows the created box object.



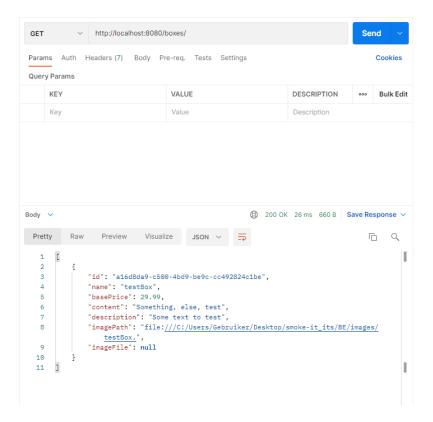
Update box:

Updated the box created above. Body responds with a 200 OK code.



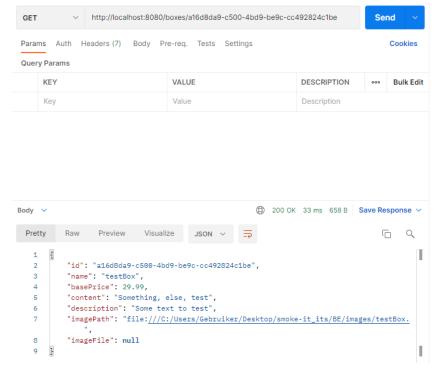
Get all boxes:

The body shows a list of all boxes. Only 1 box I created, so list only shows 1.



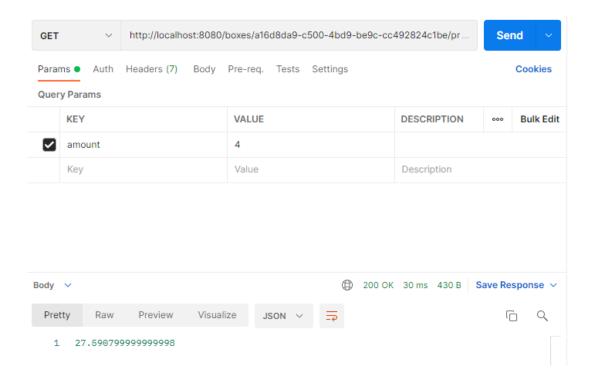
Get box with id:

The body shows the box we created at the beginning. It seems like the get all boxes, but shows 1 object instead of 1 object in a list.



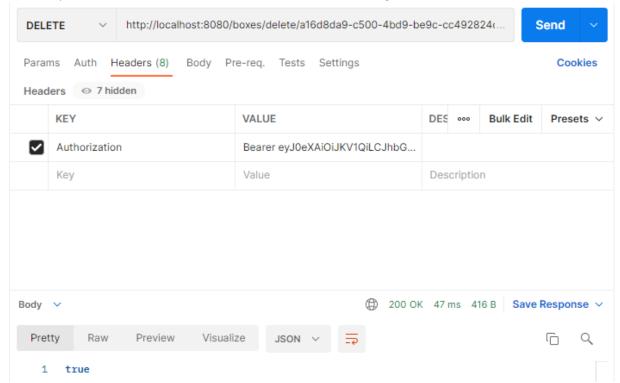
Get box price:

The endpoint shows the price for the amount of boxes selected. In this example the amount is 4.



Delete box with id:

The body shows a 200 OK code, combined with a true indicating the box was deleted successful.



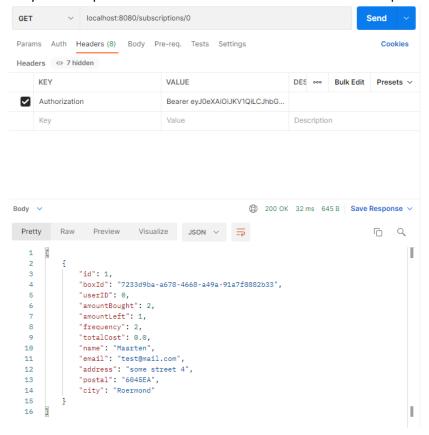
Create subscription:

The body shows the created subscriptions. The amount left is already 1 less than the amount bought. The first order for the subscription is already created.

```
http://localhost:8080/subscriptions/create/
 POST
                                                                                       Send
 Params Auth Headers (9) Body Pre-req. Tests Settings
                                                                                          Cookies
          JSON ~
                                                                                          Beautify
    1
    2
        ...."boxId": "7233d9ba-a678-4668-a49a-91a7f8882b33",
        ····"userId": 0,
    3
    4
        ····"amountBought": 2,
        ····"frequency": 2,
    5
        ····"email": "test@mail.com",
        ····"name": · "Maarten",
        ···· "address": · "some · street · 4",
    8
        .... "postal": "6045EA",
         ···"city": "Roermond"
   10
   11
Body V
                                                          200 OK 91 ms 655 B Save Response >
           Raw
                               Visualize
  Pretty
                   Preview
                                                                                              Q
                                           JSON V
                                                                                        1
    2
            "subscriptionId": 1,
            "boxId": "7233d9ba-a678-4668-a49a-91a7f8882b33",
   3
            "userId": 0,
    4
            "amountBought": 2,
    5
            "amountLeft": 1,
    6
            "frequency": 2,
   8
            "totalCost": 0.0,
   9
            "email": "test@mail.com",
            "name": "Maarten",
  10
            "address": "some street 4",
  11
           "postal": "6045EA",
  12
  13
           "city": "Roermond"
  14
```

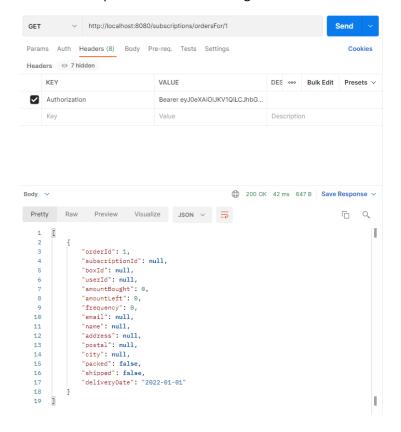
Get subscriptions for user id:

Only 1 subscription created for user 0 shows a list with 1 subscription object



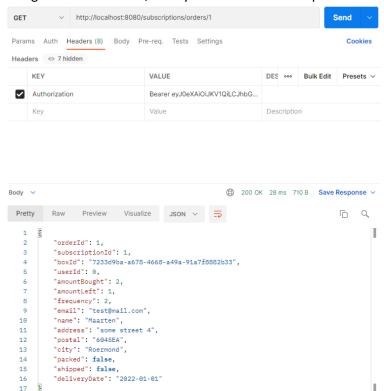
Get orders for subscription:

Above subscription has id 1. Here we get the orders from this subscription



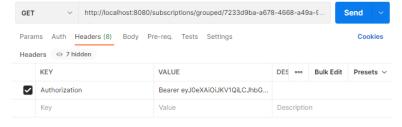
Get order with id:

We get the same order, but by id instead of subscription id



Orders for box id:

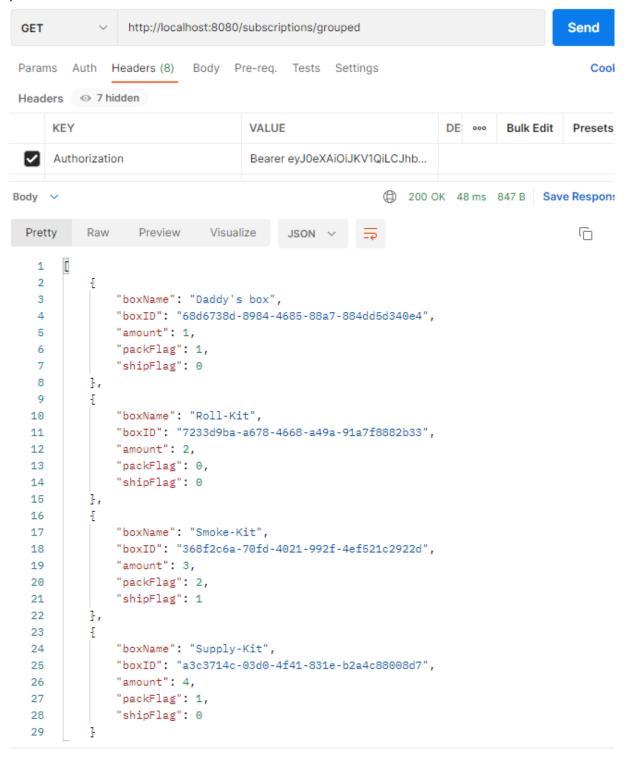
We once again get the same order, but this time by the box id that is ordered



```
( 200 OK 45 ms 712 B Save Response >
Body V
           Raw Preview Visualize JSON V
Pretty
                      "orderId": 1,
                     "subscriptionId": 1,
                     "boxId": "7233d9ba-a678-4668-a49a-91a7f8882b33",
"userId": 0,
                     "amountBought": 2,
"amountLeft": 1,
                     "frequency": 2,
"email": "test@mail.com",
"name": "Maarten",
   10
   11
                     "address": "some street 4",
"postal": "6045EA",
"city": "Roermond",
   13
14
                     "packed": false,
"shipped": false,
"deliveryDate": "2022-01-01"
   15
   16
   18
19
```

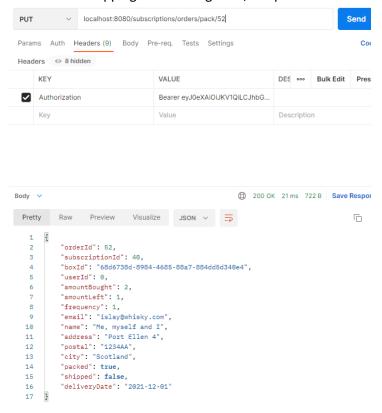
Get orders grouped:

This endpoint is used in the admin portal, to show how many orders there are for each of the boxes. This also includes the flags indicating the packing/shipping urgency. This example is run on my production database to include more information



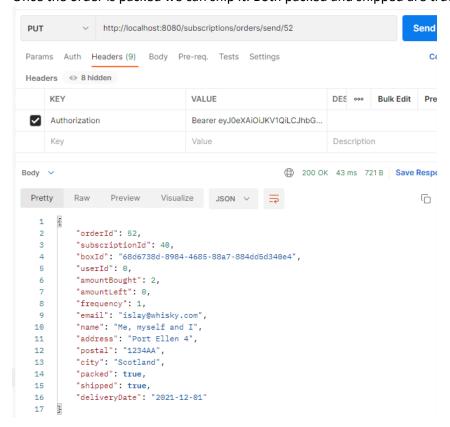
Set order as packed:

Here we see shipping status being false, but packed as true



Set order as shipped:

Once the order is packed we can ship it. Both packed and shipped are true



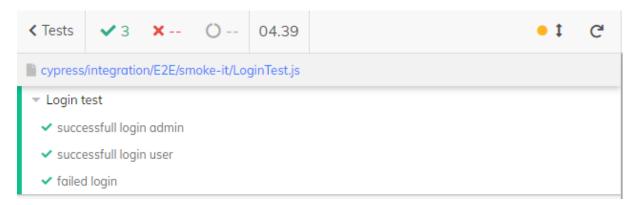
UATs

Each of the user acceptance tests can be found in the test plan document. To make this file more complete, I added the results of the tests in this document. Here you can find the ID of the test, the name and the result.

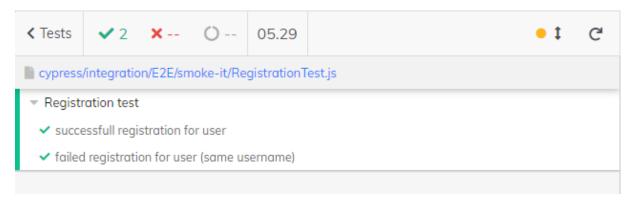
```
successful - TC-AS-01 - Login to the application
successful - TC-AS-02 - Login with incorrect credentials
successful - TC-AS-03 - Login with no connection to the database
successful - TC-AS-04 - See all existing boxes
successful - TC-AS-05 - Add new subscription box
successful - TC-AS-06 - Add new subscription box without all necessary information
successful - TC-AS-07 - Edit existing box
successful - TC-AS-08 - Delete existing box
successful - TC-AS-09 - Edit information on about us page - part of app non existing
successful - TC-AS-10 - See information on about us page
successful - TC-AS-11 - Edit information on contact page - part of app non existing
successful - TC-AS-12 - See information on contact page
successful - TC-AS-13 - See the newsfeed
successful - TC-AS-14 - Add new message to newsfeed
successful - TC-AS-15 - Add new message with invalid content/title
successful - TC-AS-16 - Delete an existing message
successful - TC-CS-01 - See all existing subscription boxes
failed - TC-CS-02 - Sort boxes based on base price
successful - TC-CS-03 - See an individual box's details
successful - TC-CS-04 - See the fluctuating price of any box
successful - TC-CS-05 - Continue to checkout
<mark>successful</mark> - TC-CS-06 - Continue to checkout without month/amount selection
successful - TC-CS-07 - Give personal information for checkout
successful - TC-CS-08 - Give personal information for checkout fail
successful - TC-CS-09 - See information on about us page
successful - TC-CS-10 - Create an account
successful - TC-CS-11 - Create an account with existing username
successful - TC-CS-12 - Create an account during checkout
successful - TC-CS-13 - Receive confirmation about order
failed - TC-CS-14 - Receive email confirmation about order
successful - TC-CS-15 - Login to the application
successful - TC-CS-16 - Login to the application incorrect details
successful - TC-CS-17 - See order history
successful - TC-S-01 - See amount of ordered boxes
successful - TC-S-02 - See amount of ordered boxes for amount of time
successful - TC-S-03 - See shipping details per order
successful - TC-S-04 - See additional notes added to order
successful - TC-S-05 - See a flag indicating pack/ship urgency
```

E2E testing

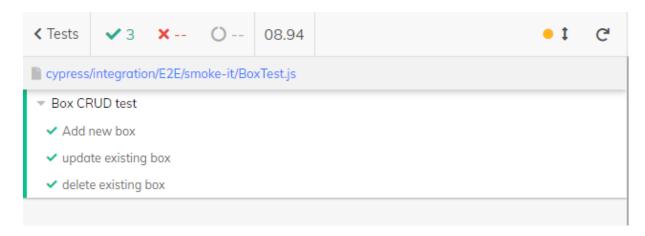
The login tests include 3 tests. These are a admin login, a login as user and a login to a non-existing account that checks for the correct BE response



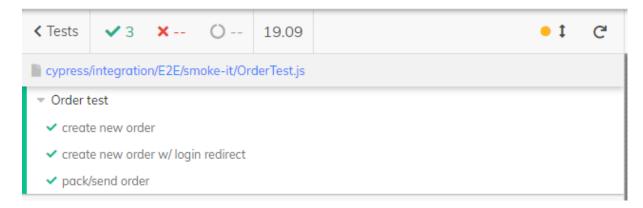
The registration tests consists of 2 tests. One test the successful creation of an account. The other on tries to create the same account again, resulting in an error. This error is checked for



The box tests test the basic CUD operations for the boxes.



The order tests include 3 tests. One of these creates a new order. The second one does the same, but uses the login option that the checkout page offers. The last one packs and ships an order from the admin portal.



Version history

When?	What?
14/12/2021	First draft of document
17/12/2021	Added postman screenshots