

Test plan

Smoke-it web shop

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Introduction

This document will be used to document what kind of test will be written and performed for the smoke-it web application. This includes the test strategy, explaining why I do certain test and what I hope to achieve with these test. After the strategy the UATs will be listed.

This document is written to document what kind of test will be performed. It will not be used to document the results of these test. The results can be found in the Test report, a file you can find in the repository. In this file there will be context about how successful the tests are.

Test strategy

This document will describe the different types of tests that will be performed for this project. They will be listed, each with some context on why I will use them.

Unit test:

Unit test will be written to continuously test features/modules of the code to ensure they are still working as intended. These unit test will be performed by the CI pipeline, every time there is a push to GIT. They are supposed to test small pieces of code. In combination with integration test they will ensure that new features/refactoring won't break the application. During this project, I will use Mockito to mock the functionality of any class/method dependency that is needed for a specific feature, to ensure I'm only testing a small part of the code.

Integration test:

Integration test will be done to combine the small pieces of code tested in the Unit test. These integration test are made to ensure that new and updated features still work with the system, and do not break anything. They make sure these new features are integrated into the application properly. The integration tests are set up in such a manner that it uses an in memory version of the database. They will also be performed by the CI pipeline.

System test:

These test are created to test a complete system. Such a system would be my back end. These test will be the next step of the integration test, and assure that all functionalities work as intended. For this project, these system test will be performed via Postman, to test the back end from the end points to the data layer. These test are currently set up to be manually performed. This could be improved in the future to support the testing via the CI. Currently there is the priority to test the FE. This means that the End to End test will be set up first, before automating these system/API tests.

Acceptance test:

Acceptance test are the only test that *need* to be performed manually. They will be set-up in such a manner that all the acceptance criteria mentioned in the backlog should be tested. They include the user story that will be tested, a pre-condition to perform the test (if needed), test data (if needed) and the expected result of the test.

If all these test have the same result as the expected result this should mean that all acceptance criteria have been met.

End to End:

End to end test are intended to test the application from one end to the other. These test will be similar to the user acceptance testing, since they test the whole application. These end to end test are the next step after a system test. Once we know that our system (e.g. back end) is fully functional, we can test it via the front end, instead of using Postman. These test are automatic and can be run via the pipeline. I will be using cypress as a tool to setup these end to end test.

Acceptance Test:

	ID	Name	User story (backlog)	Pre-condition	Test data	Expected result
	Admin-Shop					
	TC-AS-01	Login to the application	SMOK19		Username: admin Password: admin	Admin is successfully logged in to the software and can see the admin tabs.
	TC-AS-02	Login with incorrect credentials	SMOK19		Username: admin Password: user	User receives a notification that the login credentials are incorrect
	TC-AS-03	Login with no connection to the database	SMOK19	No connection to the database		User receives a notification that there is no connection to the database
	TC-AS-04	See all existing boxes	SMOK3	Boxes page opened		User sees a list of boxes
	TC-AS-05	Add new subscription box	SMOK3	Logged in as Admin, boxes page opened	Name: Smoke-Kit Base price: €20 Description: Test Photo: to be added Contents: Test	User receives a message that indicates success, and sees the newly added box in the list
	TC-AS-06	Add new subscription box without all necessary information	SMOK3	Logged in as user, boxes page opened	Name: Smoke-Kit Base price: €20 Description: Photo: to be added Contents:	User receives message indicating data is missing.

	TC-AS-07	Edit existing box	SMOK3	Logged in as Admin, selected a specific box	Name: Updated Base price: €18 Description: Updated Photo: to be added Content: Updated	User receives a message indicating success, and sees the new information on the specific box page
	TC-AS-08	Delete existing box	SMOK3	Logged in as Admin, selected a specific box		User receives message indicating success, and does no longer see the previous selected box.
	TC-AS-09	Edit information on about us page	SMOK12	Logged in as Admin, Selected about us page	Text to insert: Hello, I am testing the application.	User receives confirmation, and sees changes on about us page
	TC-AS-10	See information on about us page	SMOK12	Selected about us page		User sees the information on the about us page
	TC-AS-11	Edit information on contact page	SMOK12	Logged in as Admin, Selected contact page	Text to insert: Hello, this is new information	User receives confirmation and sees the changes on the contact page
	TC-AS-12	See information on contact page	SMOK12	Selected contact page		User sees the information on the contact page
	TC-AS-13	See the newsfeed	SMOK13	Selected main page		User sees the newsfeed
	TC-AS-14	Add new message to newsfeed	SMOK13	Logged in as Admin, selected main page	Title: test message Content: I am testing again	User receives message indicating success and sees the new news item appear in the newsfeed
	TC-AS-15	Add new message with invalid content/title	SMOK13	Logged in as admin, selected main page	Title: incorrect content Content: / Title: Content: incorrect title	User receives a message indicating the content/title is not valid
	TC-AS-16	Delete an existing message	SMOK13	Logged in as admin, at least 1		User receives message indicating

				news message already created		success and does no longer see the deleted news item
	Customer-Shop					
	TC-CS-01	See all existing subscription boxes	SMOK1	Boxes page opened		User can see a list of all boxes with base price
	TC-CS-02	Sort boxes based on base price	SMOK1	Boxes page opened	Filter from price up -> down	User can see boxes arranged from price up -> down
	TC-CS-03	See an individual box's details	SMOK2			User gets redirected to page where all details of the selected box are displayed
	TC-CS-04	See the fluctuating price of any box	SMOK6	Individual box is selected	Duration: 6 months Amount: 6 boxes/ Amount: 3 boxes	User can see the price change based on the amount of boxes
	TC-CS-05	Continue to checkout	SMOK-7	Individual box is selected	Duration: 6 months Amount: 6 boxes	User gets redirected to the checkout page
	TC-CS-06	Continue to checkout without month/amount selection	SMOK-7	Individual box selected		User receives notification that both the duration and amount have to be selected before continuing
	TC-CS-07	Give personal information for checkout	SMOK-8	Performed TC-CS-05 successfully	Name: test Address: test	User gets redirected to the payment page
	TC-CS-08	Give personal information for checkout fail	SMOK-8	Performed TC-CS-05 successfully		User receives notification to fill in all fields
	TC-CS-09	See information on about us page	SMOK-15	On the about us page		User sees the information

						displayed on the screen
	TC-CS-10	Create an account	SMOK-10	On the registration form	Username = testing Password = testing Email = testing@test.nl	The user gets confirmation that the account was created successful.
	TC-CS-11	Create an account with existing username	SMOK-10	On the registration form, performed TC-CS-10 before	Username = testing Password = testing Email = testing@test.nl	The user receives an notification that the username is already taken.
	TC-CS-12	Create an account during checkout	SMOK-10	On the checkout page		The user sees the option to register for an account on the checkout page.
	TC-CS-13	Receive confirmation about order	SMOK-09	Placed on order		The user gets redirected to a screen where all order details are summarized
	TC-CS-14	Receive email confirmation about order	SMOK-09	Place an order		The user receive an email with the summarized details of the order
	TC-CS-15	Login to the application	SMOK-17	On the login page	Username = user Password = user	The application logs the user in and redirects to the main page
	TC-CS-16	Login to the application incorrect details	SMOK-17	On the login page	Username = test Password = test	The application notifies the user the password and username combination is incorrect
	TC-CS-17	See order history	SMOK-18	Logged in as user. Order placed on logged account		The user can see all subscriptions, and orders belonging to this subscription
	Stock					
	TC-S-01	See amount of ordered boxes	SMOK-4	On the admin portal page		The user sees a list of boxes, combined with the amount of orders

	TC-S-02	See amount of ordered boxes for amount of time	SMOK-4	On the admin portal page	Selected time window of 1 month from test date	The user sees a filtered list with orders that need to be delivered in the selected time frame.
	TC-S-03	See shipping details per order	SMOK-5	Selected a specific order from admin portal		The user sees an overview of the order, including box, shipping details and shipping status
	TC-S-04	See additional notes added to order	SMOK-5	Selected a specific order from admin portal		The user can view any additional notes added to a specific order
	TC-S-05	See a flag indicating pack/ship urgency	SMOK-16	On the admin portal		The user can see how many boxes need to be packed and send in respectively 7 and 5 days.

Version history

When?	What?
09/09/2021	First draft of document
14/09/2021	Finished test cases Admin-shop (for now) Added all test cases for Sprint 1 (for now)
05/10/2021	Added context for the unit test since they will be implemented soon
07/10/2021	Added color codes to indicate the success of the UATs
14/10/2021	Added some of UATs for backlog items of sprint 3
04/11/2021	Added all UATs for sprint 3 Color coded test results for UATs
20/11/2021	Updated test strategy
26/11/2021	Added UATs for sprint 4, updated color codes test results UATs
14/12/2021	Removed FE testing from strategy. Added UATs for sprint 5.
16/12/2021	Moved UATs results to test report