

# **Design (Functional & Graphical) plan**

## **Smoke-it web shop**

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S3-CB03

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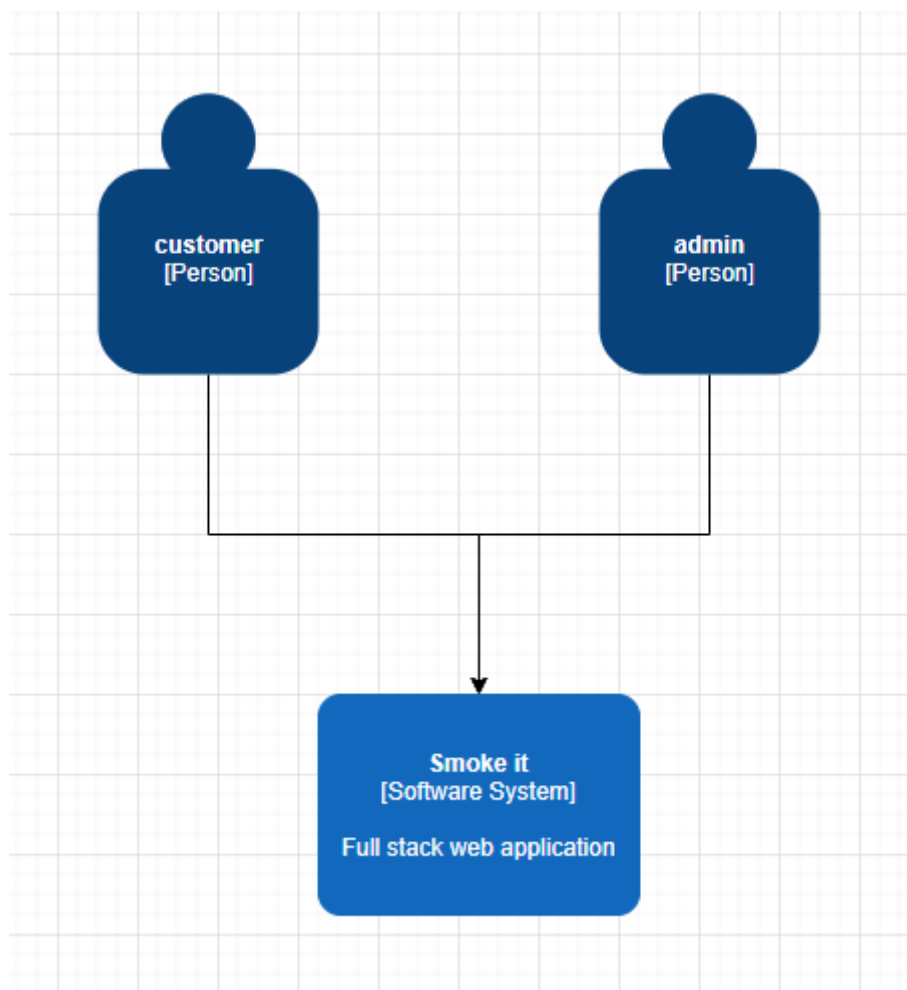
## Introduction

This document contains the functional and graphical design for the smoke-it web shop. For the functional design you can find the C4 diagrams (excluding C4 level) explaining the system structure on multiple scopes. This system structure is made from the user stories, which can be found below the C4 diagrams. To supported certain design decisions, there can be some diagrams found after the user stories. These diagrams are accompanied by some description what they are supposed to display.

As for the graphical design, you can find the original wireframes for the UI at the end of the file. The application is currently designed after these wireframes. In a later stage the UI should receive an overhaul to 'look better' and support a better User Experience.

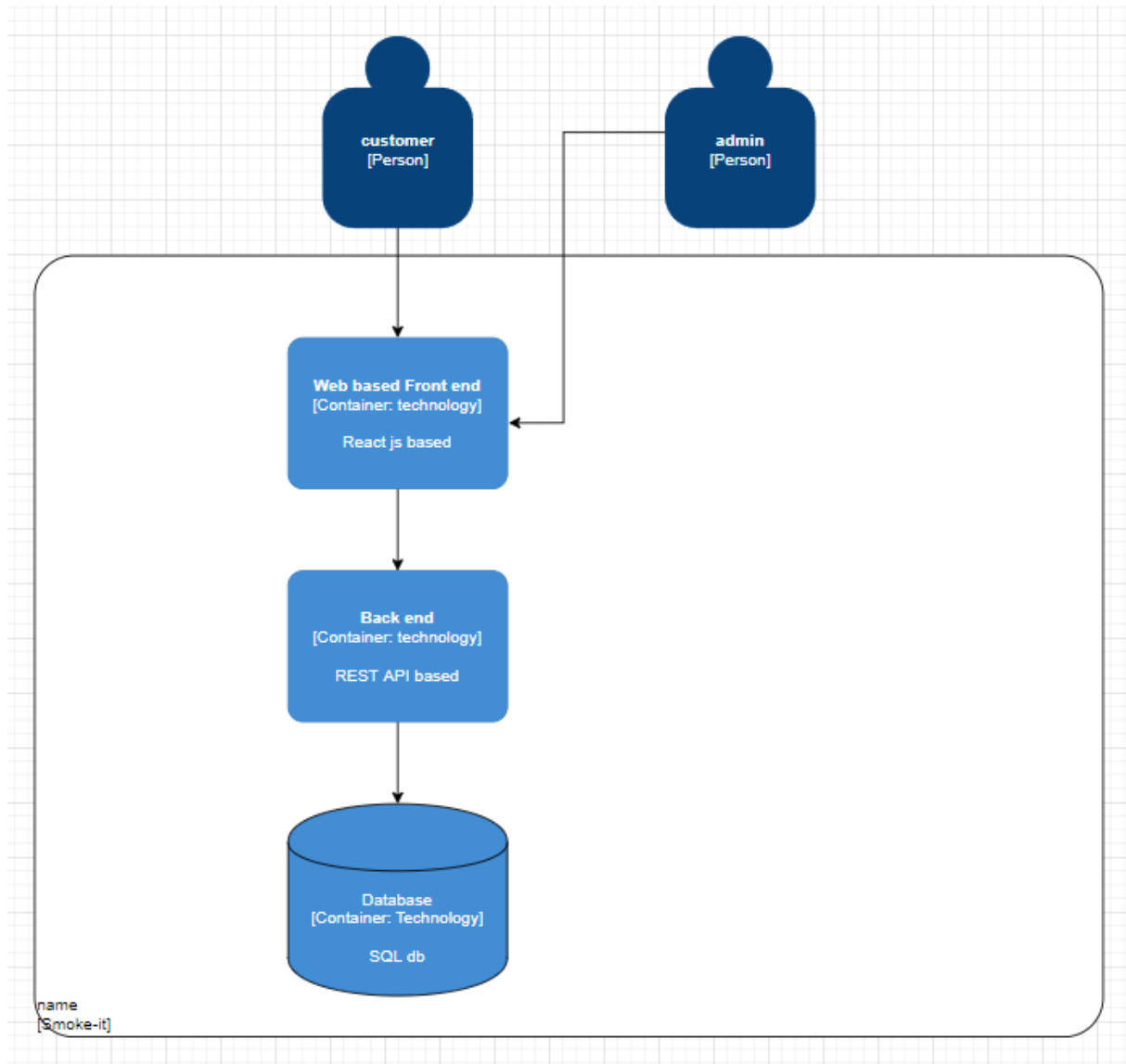
## C4 diagram

### C1:



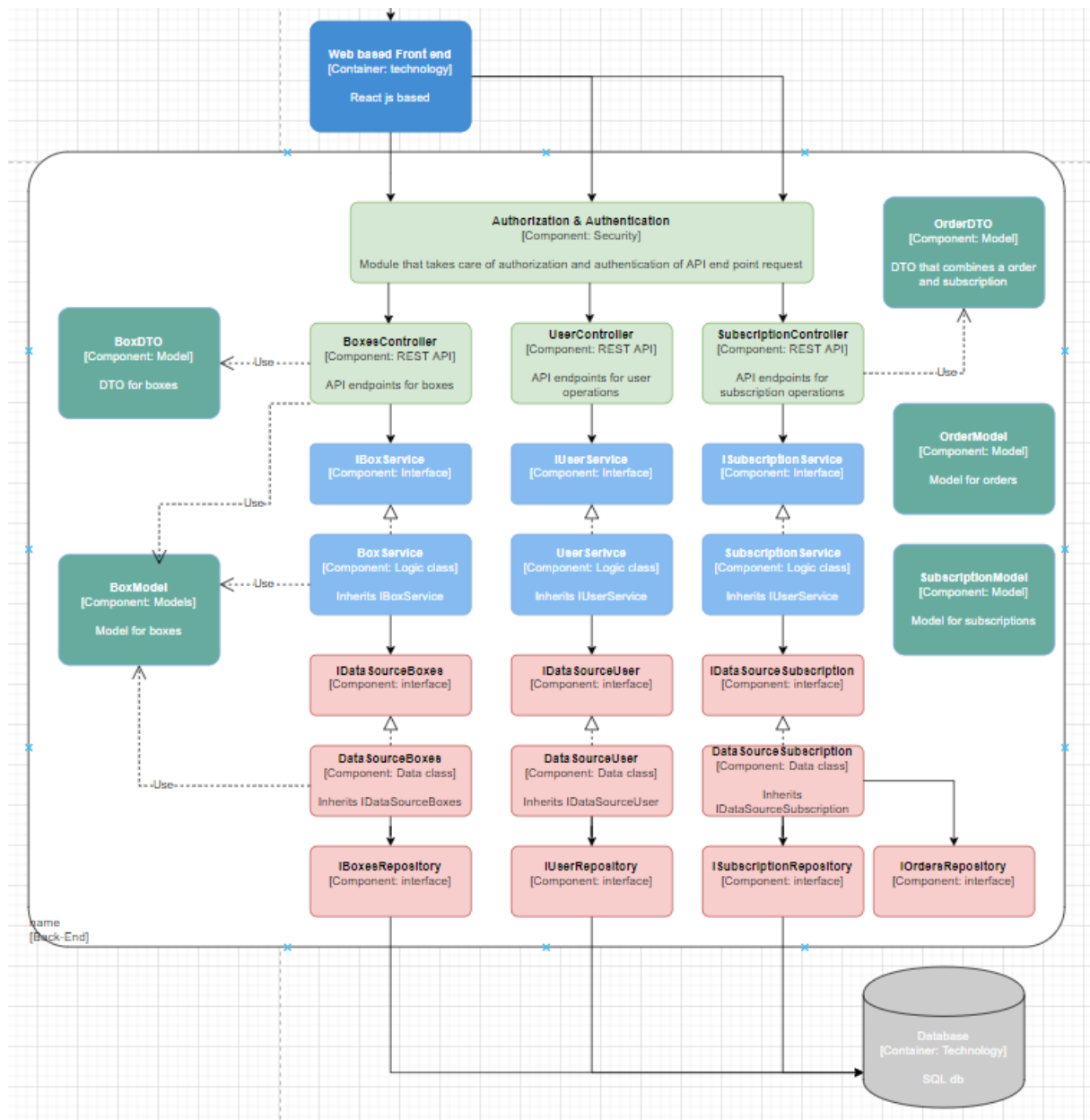
The C1 architecture is quite simple. At this point in time there is only 1 system being created and used. This is the smoke it software system. This system includes the interface for the user, as well as the logic and the database. These can be seen in C2. As 'actors' there are customers and admin.

## C2: Zooming in on the Smoke-It software system



The software system mentioned in C1 can be split up into 2 key components. These components will be a React Js based front end and a REST API based back end. The user will be able to interact with the front end, which will contact the back end via the API endpoints. This backend will communicate with the database.

### C3: Zooming in on the back end



In this C3 diagram we zoom in on the back end application. The user still interacts with the back end via the React based front end. The structure in the back end should be quite clear. The multiple controllers form the API, which the front end can reach via the created end points. For some of these end points, the user needs to be authorized to access them. The Authorization & Authentication modules takes care of authenticating who the user is and checking if they are authorized for the requested action. If they are, they can access the end points. These controllers in their turn use a service class. This class handles the logic of the system. In the first version, the service layer talks to a fake DB class, containing some fake data. In the current version, the service layers talks to a database class that is connected to a JPAREpository interface. To prevent dependency on the service or DB class, interfaces have been created. They are inserted in between the layers to invert the dependency. Doing this made it easier to, for example, switch out our fake data source for a real one.

Not all models have been added in the diagram since they all function the same as the BoxDTO and BoxModel. The Order and Subscription model are connected the same way as the BoxModel, to their respective classes.

## Screenshots backlog

Projecten / Smoke-It / epic toevoegen / SMOK-1

As a customer, I can see all available subscription boxes so I can choose which one suits me best.

[Bijvoegen](#) [Onderliggende issue toevoegen](#) [Link issue](#) [v](#) [...](#)

Beschrijving

Dependency	-
Acceptance criteria	
I can see a list of all boxes.	
I can see the base price of all boxes.	
I can order all boxes based on the base price.	

Projecten / Smoke-It / epic toevoegen / SMOK-2

As a customer I can see an individual box so I can see specific details about the box.

[Bijvoegen](#) [Onderliggende issue toevoegen](#) [Link issue](#) [v](#) [...](#)

Beschrijving

Dependency	SMOK1
Acceptance criteria	
I can click on any box in the list of boxes.	
I get redirected to the page of the selected box.	
I can see all information of the selected box	

Projecten / Smoke-It / epic toevoegen / SMOK-6

As a customer I can see the fluctuating price of an box So I can decide how many boxes I wish to receive.

[Bijvoegen](#) [Onderliggende issue toevoegen](#) [Link issue](#) [v](#) [...](#)

Beschrijving

Dependency	SMOK2
Acceptance criteria	
I can select the duration of my subscription.	
I can select the total amount of boxes I wish to receive in this duration.	
I can see the price fluctuate based on the amount of boxes I wish to receive.	

Projecten / Smoke-It / epic toevoegen / SMOK-7

As a customer I can continue to checkout So I can give my personal information.

[Bijvoegen](#) [Onderliggende issue toevoegen](#) [Link issue](#) [v](#) [...](#)

Beschrijving

Dependency	SMOK6
Acceptance criteria	
I can only click the button once I have chosen a subscription duration and total amount of boxes.	

Projecten / Smoke-It / epic toevoegen / SMOK-8

As a customer I can give all my personal/shipping information So I can continue to the payment.

[Bijvoegen](#) [Onderliggende issue toevoegen](#) [Link issue](#) [v](#) [...](#)

Beschrijving

Dependency	SMOK7
Acceptance criteria	
I can login to auto-fill all my information.	
I can insert my personal information.	
I can insert my shipping information.	
I can continue only once all necessary fields have been filled.	

1

Nog doen

Vastgezette velden

Priority98

LabelsCustomer-Shop

Story point estimate3

Details Sprint

Aangemaakt 3 dagen geleden

Bijgewerkt 2 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority95

LabelsCustomer-Shop

Story point estimate3

Details Sprint

Aangemaakt 3 dagen geleden

Bijgewerkt 2 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority92

LabelsCustomer-Shop

Story point estimate8

Details Sprint

Aangemaakt eergisteren

Bijgewerkt 3 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority90

LabelsCustomer-Shop

Story point estimate1

Details Sprint

Aangemaakt eergisteren

Bijgewerkt 4 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority88

LabelsCustomer-Shop

Story point estimate3

Details Sprint

Aangemaakt eergisteren

Bijgewerkt 4 minuten geleden

Configureren

As a customer I can pay using IDEal So I can complete my order

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	SMOK8
Acceptance criteria	
I can choose the bank I want to use for the transaction	
I get redirected to the payment site of my bank	

As a customer I, can create an account, so I can track my bought subscriptions.

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	
Acceptance criteria	
I can create an account during checkout	
I can create an account via the new account page	
I can submit a username(Unique), password(Min length: 8 char, min. 1 letter, number, special char) and email address(valid: m@m.domain) for my account	
I get a error message if my username if already in use	

As an customer, I can login to the website, to look at my order history

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	SMOK10
Acceptance criteria	
I can login via the login button	
I can supply my username and email address	
I receive confirmation about the login attempt	

As a customer, I can see my order history, so I can track my expenses

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	SMOK17
Acceptance criteria	
I can see a list of all previously bought subscriptions.	
I can see the details (Purchase date, price, amount of received boxes, duration of the subscription) of a specific previously bought subscription.	

As an customer I can see the news feed So I can stay up to date

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	-
Acceptance criteria	
I can see all posted news items	
I can refresh the news feed to get possible new news items	

As a customer, I can contact smoke-it, so I can ask question/give suggestions

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	
Acceptance criteria	
I can ask my question/give feedback via the contact form.	
I can enter my email-address to which should be replied.	
I can enter my name to which the reply should be addressed.	
I receive an confirmation email stating the success of the contact attempt.	

1

Nog doen

Vastgezette velden

Priority85

LabelsCustomer-Shop

Story point estimate5

Details Sprint

1

Nog doen

Vastgezette velden

Priority80

LabelsCustomer-Shop

Story point estimate5

Details Sprint

Aangemaakt eergisteren

Biggewerkt 7 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority79

LabelsCustomer-Shop

Story point estimate3

Details Sprint

Aangemaakt eergisteren

Biggewerkt 7 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority68

LabelsCustomer-Shop

Story point estimate5

Details Sprint

Aangemaakt eergisteren

Biggewerkt 6 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority60

LabelsCustomer-Shop

Story point estimate2

Details Sprint

Aangemaakt eergisteren

Biggewerkt 12 minuten geleden

Configureren

1

Nog doen

Vastgezette velden

Priority40

LabelsCustomer-Shop

Story point estimate5

Details Sprint

Aangemaakt eergisteren

Biggewerkt 10 minuten geleden

Configureren

As a customer, I can see the information page, to get information about Smoke-It

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	
Acceptance criteria	
I can see the information (plain text) put up by the admins.	
I can see photos(PNG) giving more context to the given information.	

Nog doen

Vastgezette velden	
Priority	38
Labels	Customer-Shop
Story point estimate	2
Details Sprint	

As an admin, I can CRUD subscription boxes, in order to keep the website up-to-date

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	-
Acceptance criteria	
I can add new boxes by supplying a Name, base price (in euros), description, photo(PNG max ...MB?), contents	
I can see all existing boxes (Same as SMOK-1)	
I can edit existing box's information (Name, base price, description, photo(PNG max ...MB?), contents)	
I can delete existing boxes, after giving a delete confirmation.	

Nog doen

Vastgezette velden	
Priority	100
Labels	Admin-Shop
Story point estimate	13
Details Sprint	

Aangemaakt 3 dagen geleden  
Bijgewerkt 6 minuten geleden

Configureren

As an admin, I can CRUD the information about Smoke-it, In order to keep the website up-to-date

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	-
Acceptance criteria	
I can edit the information (plain text) displayed on the about us page.	
I can edit the information displayed on the contact page.	

Nog doen

Vastgezette velden	
Priority	78
Labels	Admin-Shop
Story point estimate	3
Details Sprint	

Aangemaakt eergisteren  
Bijgewerkt 5 minuten geleden

Configureren

As an Admin, I can CRUD messages on the news feed, to keep my customers up-to-date

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	
Acceptance criteria	
I can see the newsfeed	
I can add a new message to the newsfeed	
I can edit an existing message from the newsfeed	
I can delete an existing message from the newsfeed	

Nog doen

Vastgezette velden	
Priority	65
Labels	Admin-Shop
Story point estimate	2
Details Sprint	

Aangemaakt eergisteren  
Bijgewerkt 5 minuten geleden

Configureren

As an employee, I can see a flag indicating the box packing/shipping urgency, so I know what boxes to pack first

Bijvoegen Onderliggende issue toevoegen Link issue ...

Beschrijving

Dependency	
Acceptance criteria	
I can see an exclamation mark (!) when there are boxes that need to be packed and shipping within 7 days.	
I can see an arrow (->) when there are boxes that are packed, but need to be shipped within 5 days.	

Nog doen

Vastgezette velden	
Priority	70
Labels	Stock
Story point estimate	13
Details Sprint	

Aangemaakt eergisteren  
Bijgewerkt 5 minuten geleden

Configureren



As an employee, I can see the shipping details per box, In order to ship them to the correct location

Bijvoegen Onderliggende issue toevoegen Link issue ...

Dependency	SMOK4
Acceptance criteria	
I can select an specific customers order	
I can see the personal/shipping information of the customer	
I can see additional notes added by the employee (notes added after a complaint, etc.)	

Nog doen

Vastgezette velden

Priority75

LabelsStock

Story point estimate5

Details Sprint

Aangemaakt 3 dagen geleden

Bijgewerkt 6 minuten geleden

Configureren

As an employee I can see the amount of ordered boxes (per box type) So I know how many need to be packed

Bijvoegen Onderliggende issue toevoegen Link issue ...

Dependency	-
Acceptance criteria	
I see a list of all boxes	
I see the amount of boxes needed (per box type) for a specified amount of time	
I can select the timeframe to consider	

Nog doen

Vastgezette velden

Priority80

LabelsStock

Story point estimate8

Details Sprint

Aangemaakt 3 dagen geleden

Bijgewerkt 6 minuten geleden

Configureren

As an admin, I can login to the website, so I have access to the admin rights

Bijvoegen Onderliggende issue toevoegen Link issue ...

Dependency	SMOK10
Acceptance criteria	
I can login via the login button	
I can supply my username and email address	
I receive confirmation about the login attempt	

Nog doen

Vastgezette velden

Priority99

LabelsAdmin-Shop

Story point estimate3

Details Sprint

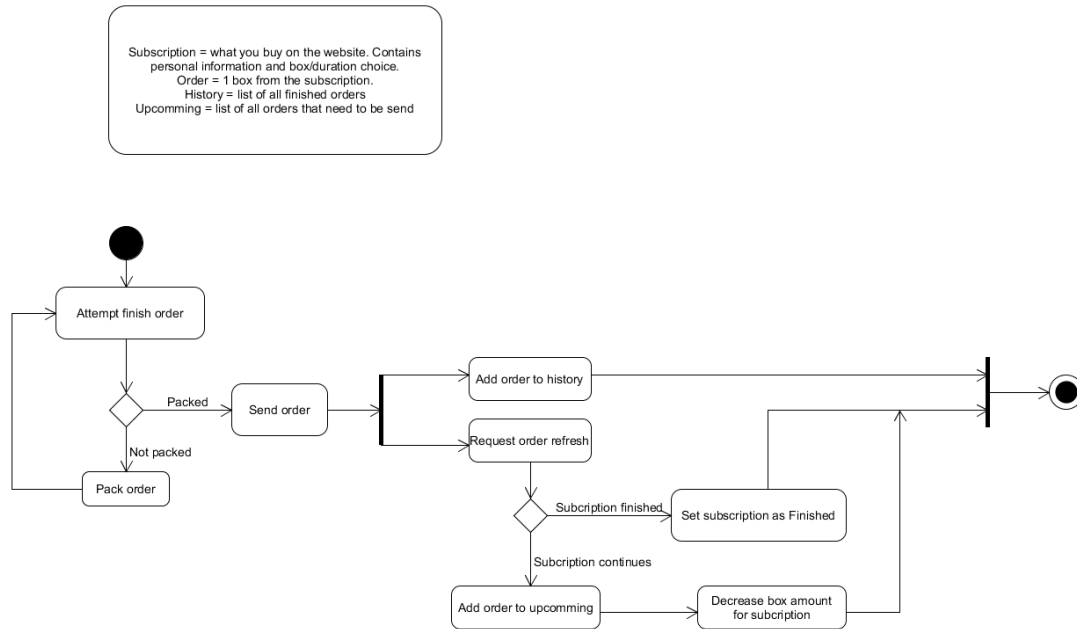
Aangemaakt 2 minuten geleden

Bijgewerkt 39 seconden geleden

Configureren

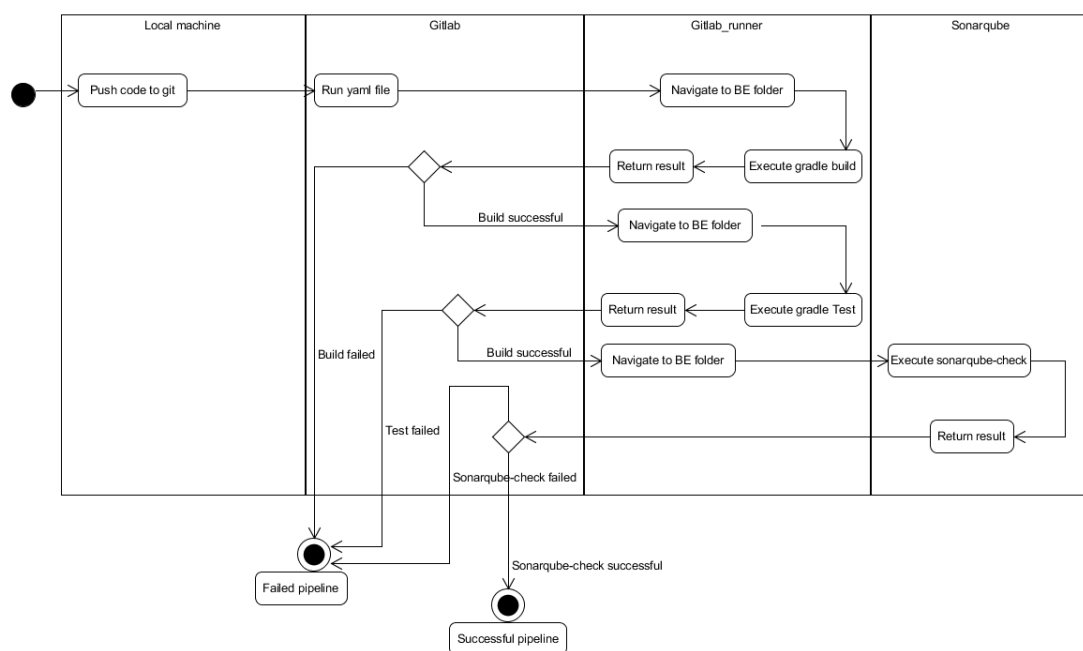
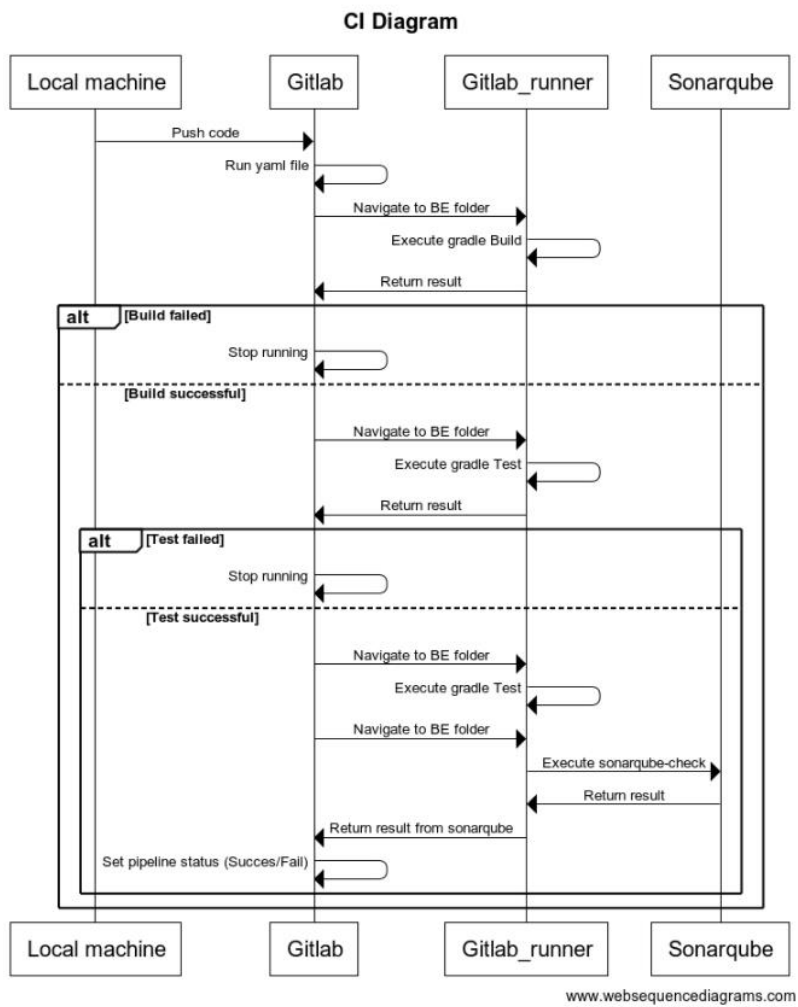
## Diagrams

### Ship order flow:



The ship order flow was created to present myself with a clear image of what steps the system must take to send an order. Creating this diagram helped me realize that my back end needed a refactor, to support both the use of subscriptions and orders. In an older version of the back end, there was only the order model. This addition solved the issue I was facing, of not knowing how the system would handle shipping an order.

## CI Diagram



The above diagrams are created to visualize the steps the CI pipeline does when pushing code to the repository. This helps make sure I understand what my pipeline is doing when I make a push, and helps to expand the pipeline, since I know what is going on. There are 2 diagrams to see. The first is a sequence diagram originally created. After that I created the same diagram in the form of an activity diagram to be visually more clear.

## Front end drafts

**Main page:**

**Box list page/Admin view:**

Box List – admin

Smoke-It

Boxes		Info		Contact		Login
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+

○ \$30 △

○ \$30 △

○ \$30 △

○ \$15 △

○ \$15 △

○ \$15 △

### Single box page/Admin view:

Single box

Smoke-It

Boxes		Info		Contact		Login
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Contents

\$30

Description text

Order

**Stock box list page:**

## Stock single box page:

Specific box page

Smoke-It			
Boxes	Info	Contact	Login
Box type 1		! 24	
Maarten - Roermond		15/09/21	
Alessandro - Eindhoven		15/09/21	
Miguel - Amsterdam		01/10/21	
Jonie - Breda		01/10/21	
Manon - Tilburg		01/10/21	

## Stock single order page:

Single order page

Smoke-It			
Boxes	Info	Contact	Login
Box type 1			
Box contents		Shipping information	
		Set as packed	
		Set as Send	



## Version History

When?	What?
09/09/2021	First draft of document. Added wireframes and screenshots of user stories
05/10/2021	Added the C4 diagrams with context for each diagram for the current state of the project.
4/11/2021	Updated C4 diagrams to supported newest version of BE
23/11/2021	Added an introduction to the file
25/11/2021	Updated C4 diagrams to support newest version of BE
26/11/2021	Added the diagrams
07/12/2021	Added activity diagram for CI. Updated UML for C3 diagram