

2020

Analysis document Webshop

FONTYS SEMESTER 3
DIRK VAN ZON – CB03

VERSION: 4.0

Version control:

Version	Date	Author	Description
1.0	7-9-2020	Dirk van Zon	Added the User stories and some Use cases.
1.1	8-9-2020	Dirk van Zon	Added the Table of content, MoSCoW, functional requirements and some more Use cases.
1.2	9-9-2020	Dirk van Zon	Added front page, Use case diagram and some more use cases.
1.3	10-9-2020	Dirk van Zon	Added Product backlog.
1.4	11-9-2020	Dirk van Zon	Added the Testplan and Testmatrix
2.1	20-9-2020	Dirk van Zon	Edited the user stories.
4.0	2-1-2021	Dirk van Zon	Added more functional requirements.
5.0	16-1-2021	Dirk van Zon	Edited context diagram.

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MoSCoW Requirements:

Must have	Should have	Could have	Wont have
Searching for products in the catalog with filters	Editing products from the catalog	Report a review.	
Adding products to the catalog	Leaving a review on a product	Dismiss a report	
Removing products from the catalog		Remove a review	
Register as a customer or retailer			
Adding products to shopping cart			

Functional requirements:

- FR01)** The customer can log in with their account.
 - a) **K-01.1** If the customer does not have an account he can register on another page.
- FR02)** The user can register an account.
 - a) **K-02.1** The user can create a password and a username.
 - b) **K-02.2** The user can register a customer and retailer account.
 - c) **B-02.1** The user has to have an email.
- FR03)** The customer can search for a product.
 - a) **K-03.1** If there is no product found show a message that there are no products found.
 - b) **K-03.2** The customer can add certain filters like price, reviews, name etc...
- FR04)** The Retailer can view all the products in their catalog
 - a) **K-04.1** If the retailer has no products in their catalog, there will be a message showing that explains that the retailer has no products in their catalog.
- FR05)** The customer can leave a review on a product.
 - a) **K-05.1** The customer can give the product a rating between 0 and 5 stars. The customer can also write a short piece about the product.
- FR06)** The retailer can add a product to their catalog.
 - a) **K-06.1** The retailer can add images, name, description, price and tags to the product.
- FR07)** The retailer can edit a product in their catalog.
 - a) **K-07.1** If the retailer has no products in their catalog he will not be able to edit a product. A message will show that the retailer has no products.
- FR08)** The retailer can remove a product in their catalog.
 - a) **K-08.1** If the retailer has no products in their catalog he will not be able to remove a product. A message will show that the retailer has no products.
- FR09)** The customer can add an item to his shopping cart.
 - a) **B-09.1** If the item is already in the shopping cart the customer can no longer add it.
- FR10)** The customer can remove an item from his shopping cart.
 - a) **K-10.1** If the shopping cart is empty a message will show that there are no items in the shopping cart.
- FR11)** The customer can report a review
- FR12)** The retailer can dismiss a report
 - a) **K-12.1** If there are multiple reports of the same review. All these reports will be removed
- FR13)** The retailer can remove a review
 - a) **K-13.1** If there are multiple reports of the same review. All these reports will be removed

User stories:

1. As a customer or retailer i want to log in, because I want to use the website
2. As a customer I want to leave a review on a product because I want to shae my opinion on a product.
3. As a customer I want to add a product to my shopping cart because I want to purchase the product.
4. As a customer I want to remove a product from my shopping cart, because I no longer want to buy this product.
5. As a customer or retailer I want to seach for a product, because I want to find a specific product.
6. As a customer or retailer I want to register an account, because I want to use the site.
7. As a retailer I want to add a product, because I want to add a product in my catalog.
8. As a retailer I want to remove a product, because I want to remove a product from my catalog.
9. As a retetailer I want to edit a product, because I want to edit a product in my catalog.
10. As a retailer I want to see all my product, because I want to see which products are preforming the best.
11. As a customer I want to report a review to the retailer. Because I want to keep the site clean of fake reviews.
12. As a retailer I want to dissmis a report. Because I want to make sure that reviews are not falsy reported and deleted.
13. As a retailer I want to remove a review when it has been reported to me. Because I want to keep the site clean of fake reviews.

Use Cases:

Name	UCo1:
Description	The user can create an account.
Actors	Customer & retailer
Assumptions	<ul style="list-style-type: none"> The user has an email adress
Scenario	<ol style="list-style-type: none"> The system presents the user with a page to create an account. The user fills in their email and creates a password and user name. The user chooses if he/she wants a customer or retailer account. The system sends a verification email to the users email The user clicks the verification link in the mail. The system creates the account.
Exeptions	
Results	The user now has an account.

Name	UCo2:
Description	The user can log in with their account.
Actors	Customer & retailer
Assumptions	<ul style="list-style-type: none"> The user has registerd an account
Scenario	<ol style="list-style-type: none"> The system presents the user with a page to log in with their account. The user uses his username/email and password to log in.[1] The system logs the user in . They system send the user to the homepage.
Exeptions	[1] The user submitted the wrong username/email or password. The system then shows the user an error that one of the details is incorrect and was not able to log the user in.
Results	The user now has logged in and can start using the website.

Name	UCo3:
Description	The retailer can add a product to the catalog.
Actors	Retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in with a retailer account.
Scenario	<ol style="list-style-type: none"> The system gives the retailer a page on which he/she can add a product to the catalog The retailer inputs the data about the product. e.g. product name, image, dimensions, price, ect... The system adds the product to the the catalog/database.
Exeptions	
Results	A new product has been added to the catalog.

Name	UCo4:
Description	The retailer can remove a product from his catalog.
Actors	Retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in with a manager account. There is at least one product in the retailers catalog.
Scenario	<ol style="list-style-type: none"> The system gives the retailer a page with the entire catalog of products. The retailer selects a product and chooses to delete it from the catalog. The system removes the product from the catalog and refreshes the page.
Exeptions	
Results	A new product has been added to the catalog of the retailer.

Name	UCo5:
Description	The retailer can edit a product from the catalog
Actors	Retailer
Assumptions	<ul style="list-style-type: none"> The retailer has logged in with a manager account. There is at least one product in the retailers catalog.
Scenario	<ol style="list-style-type: none"> The system gives the retailer a page with the entire catalog of his/her products. The retailer selects a product and chooses to edit. The system gives the retailer a dialog with product options the retailer can change. The retailer makes the needed changes. The system saves the changes in the catalog
Exeptions	
Results	A product in the catalog has been edited.

Name	UCo6:
Description	A customer can search for a product in the catalog
Actors	Customer & retailer
Assumptions	<ul style="list-style-type: none"> There is at least one product in the catalog.
Scenario	<ol style="list-style-type: none"> The system gives the user a page with the entire catalog of products. The user can search for a product by one or multiple search terms like price, name, id and date. The system then gives the user the products that fit within the search terms.[1]
Exeptions	[1] There are no products that fit within the searchterms. The system will show the user an error explaining that there were no products available.
Results	A list of search results is shown to the user

Name	UCo7:
Description	The retailer can view all the products in their catalog
Actors	retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in with a retailer account
Scenario	<ol style="list-style-type: none"> The retailer selects to view all the products in their catalog. The system shows the retailer a list of all the products in their catalog.[1]
Exeptions	[1] The retailer has no products in his/her catalog. The system will show the retailer a message explaining that the retailer has no products.
Results	A list of all the products in the retailers catalog are shown.

Name	UCo8:
Description	The customer can leave a review on a product
Actors	Customer
Assumptions	<ul style="list-style-type: none"> The user has logged in
Scenario	<ol style="list-style-type: none"> The system presents the user with a page of a product The user selects to review a product The system shows a area in which the user can fill in a review The user fills in the review with 0 to 5 stars and/or a comment The user selects to save the review[1] The system saves the review
Exeptions	[1]The user left no review. The system will then show an error explaining that the user did not fill in the review form.
Results	The user now has an account.

Name	UCo9:
Description	The customer can add a product to their shopping cart
Actors	Customer
Assumptions	<ul style="list-style-type: none"> The user has logged in
Scenario	<ol style="list-style-type: none"> The system presents the user with a page of a product The customer selects to add the product to their shopping cart The system adds the product to the customers shopping cart
Exeptions	
Results	The customer has now added a product to their shopping cart.

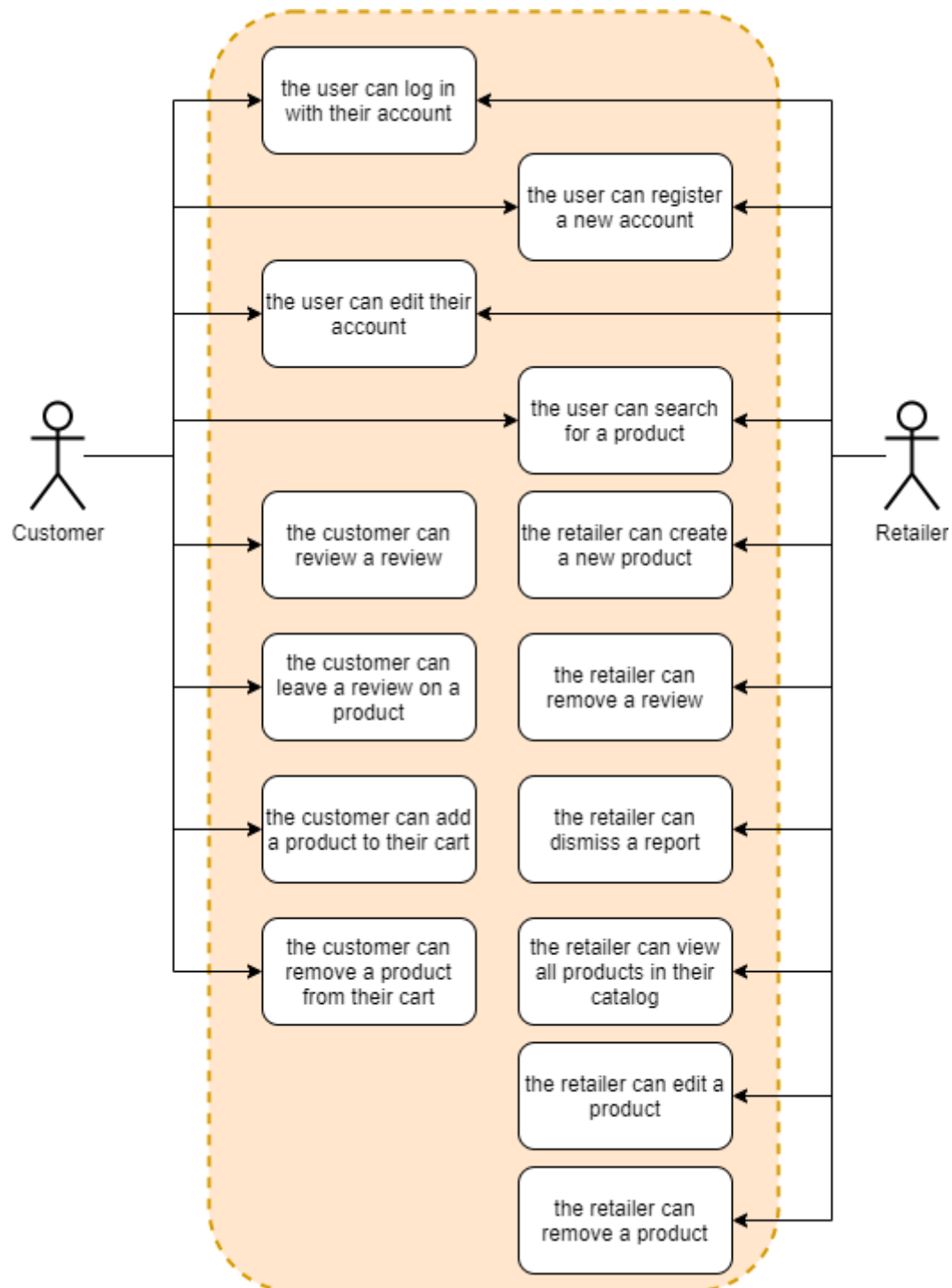
Name	UC10:
Description	The customer can remove a product to their shopping cart
Actors	Customer
Assumptions	<ul style="list-style-type: none"> The user has logged in There's at least one product in the shopping cart of the customer
Scenario	<ol style="list-style-type: none"> The system presents the user with the shopping cart. The user selects to remove a product from the shopping cart. The system removes the product form the shoppin cart.
Exeptions	
Results	The customer has now removed a product to their shopping cart.

Name	UC11:
Description	The customer can report a review
Actors	Customer & Retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in There has to be a review to report
Scenario	<ol style="list-style-type: none"> The customer sees that a fake review has been left on a product. The customer reports this review The retailer dismisses this report or deletes the review
Exeptions	
Results	The fake review has been removed from the product

Name	UC12:
Description	The retailer can dismiss a report
Actors	Customer & Retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in There has to be a review to report A report has been made
Scenario	<ol style="list-style-type: none"> A report has been made by a customer The retailer dismisses the report
Exeptions	
Results	The review has not been removed from the product. But the report is gone.

Name	UC13:
Description	The retailer can remove a review
Actors	Customer & Retailer
Assumptions	<ul style="list-style-type: none"> The user has logged in There has to be a review to report A report has been made
Scenario	<ol style="list-style-type: none"> A report has been made by a customer The retailer deletes the review
Exeptions	
Results	The review has been removed from the product

Use case diagram:



Product backlog:

Use Case	Description	Priority
UCo1	Register an account	95
UCo2	Log in	90
UCo6	Search for product	85
UCo3	Add product to catalog	80
UCo4	Remove product from the catalog	75
UCo9	Add product to shopping cart	75
UCo5	Update a product from the catalog	70
UC10	Remove product from shopping cart	70
UCo7	View products in retailers catalog	65
UCo8	Leave a review on a product	55
UC11	Report a review	50
UC12	Remove a review	40
UC13	Dismiss a report	40

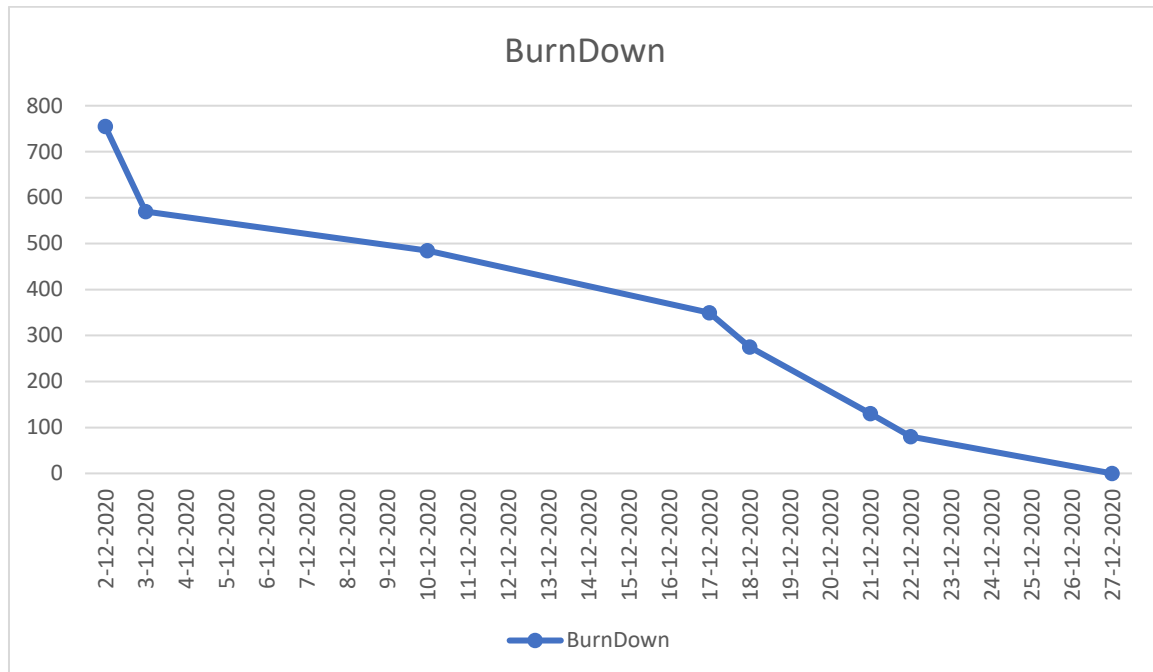
Testplan:

Test case	Use case	Input	Expected output
TC01	UC01	Email: "henk@outlook.com" Username:"Henk" Password:"psswrđ" AccountType:"Customer"	The user has been sent an email to verify their customer account.
TC02	UC01	Email: "henk@outlook.com" Username:"Henk" Password:"psswrđ" AccountType:"Retailer"	The user has been sent an email to verify their retailer account.
TC03	UC02	Username:"Henk" Password:"psswrđ"	The user has succesfully logged in.
TC04	UC03	Name:"USB-stick" Description:"8gb usb stick" Price: "12"	The product has been added to the retailers catalog. And can now be viewed by customers.
TC05	UC04	ProductId:"12345"	The product has now been removed from the catalog.
TC06	UC05	Name:"SD-card" Description:"32gb usb stick" Price: "26" ProductId:"54231"	The product with the id "54231" has now been updated.
TC07	UC06	SearchQuery:"USB-stick" MinPrice:"3" MaxPrice:"20"	The system will display a list of products that match the search terms.
TC08	UC07	RetailerId:"8129"	The retailer now sees products that are listed in his catalog.
TC09	UC08	CustomerId:"4765" ProductId:"54321" StarAmount:"4.5" Review:"Great product!"	The review has been added to the product. Other customer will be able to see this comment.
TC10	UC09	ProductId:"12345"	The product has been added to the customers shopping cart.
TC11	UC10	ProductId:"12345"	The product has been removed from the customers shopping cart.
TC12	UC11	The Customer presses the report button	The review has been reported to the retailer.
TC13	UC12	The retailer presses the remove button	The review has been removed
TC14	UC13	The reatiler presses the dissmis button	The review has been dismissed

Testmatrix:

	TC01	TC02	TC03	TC04	TC05	TC06	TC07	TC08	TC09	TC10	TC11	TC12	TC13	TC14
FR-01	x	x												
K-01.1	x	x												
FR02			x											
K-02.1			x											
K-02.2			x											
B-02.1			x											
FR03							x							
K-03.1							x							
K-03.2							x							
FR04								x						
K-04.1								x						
FR05									x					
K-05.1									x					
FR06				x										
K-06.1				x										
FR07						x								
K-07.1						x								
FR08					x									
K-08.1					x									
FR09										x				
B-09.1										x				
FR10											x			
K-10.1											x			
FR11												x		
FK12													x	
K-12.1													x	
FK13														x
I-13.1														x

Burndown Chart:



This is the burndown chart of sprint 5. Because I decided to remake the backend at the beginning of this sprint. I also had to redo all user stories. On the vertical axis you can see the story points I have left of all the user stories. And on the horizontal axis are the dates on which I completed some user stories.