

# Individual project S3

Project plan

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Class: S3-CB05

Version: 1.0

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# 1. Members

Currently, there is only one developer who is going to develop and deliver the final software solution, he is Saeed Ba Wazir, You can contact him via this email [488364@student.fontys.nl](mailto:488364@student.fontys.nl).

## 2. Project description

The project is web store to sell products, the products can be any product kind. The web store will have a recommendation system to recommend products to the customers to help the owners with the sales.

## 3. Project goal

The first goal of this project is to make a web store application to sell products, the application should be able to communicate with other applications to provide better efficiency for the two users of this application, which are customer and owner. The application will have a recommendation system to recommend the products to the customer to help the owner with sales.

The owner will be able to add, view, update and delete products and orders via the web store. The owner can integrate the application with other applications, for instance, to get products or to decrease or increase the stock in the application.

The customer should be able to view the products and add them to the shopping cart to make an order, when making an order the customer should provide his/her shipping and billing details.

The second goal is to have a user-friendly application to help the users use the application in an efficient manner.

## 4. Deliverables

During and at the end of the project, there are going to be multiple things, this is a short list of these things.

### Sprint 1

- Project planning.
- CI/CD environment initialization.
- First setup of Restful API.

### Sprint 2

- Design document version 1.
- 1st prototype iteration.
- Applied research document.

### Sprint 3

- Design document version 2.
- Quality assurance.
- Test plan.
- 2nd prototype iteration.
- Research document.

### Sprint 4

- Design document version 3.
- 1st release version.
- Quality assurance metrics.
- UX feedback report.

### Sprint 5

- Final design document.
- Security report.
- 2nd release version.
- design document.
- Up-to-date product and sprint backlogs and burn-down charts.
- Websockets implemented.

## Sprint 6

- Final design document.
- Final release (Docker integration).
- Up-to-date product, sprint backlogs and burn-down charts.
- A web performance review document.

## 5. Non-Deliverables

At the end of the project, there are going to be multiple things, this is a short list of these things.

- Secure software
- Bug-free system
- Maintainable and extendable
- User-friendly

## 6. Constraints

For the solution, there are constraints should be keep in mind. The programming language that will used for the software solution is JAVA version 17. For the backend, There will be creating a RESTful application, using spring boot.

For hosting the website, it will be hosted by the Luna server which is provided by *Fontys University*.

## 7. User stories

<b>US-01</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Log in</b>	<b>Must</b>	<b>M</b>
<b>User story</b>		
As a user, I want to log in, so that I have access to my functions.		
<b>Acceptance criteria</b>		
Given that I filled my credentials, when I click on log in button, then I will have access to the user's page		

<b>US-03</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>log in via google account</b>	<b>Could</b>	<b>L</b>
<b>User story</b>		
As a user, I want to log in using my google account, so that I can be authenticated via my google account.		
<b>Acceptance criteria</b>		
Given that I want to log in with my gmail account, when I click on log in via gmail account button, then I will have access to the user's page.		

<b>US-11</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Log out</b>	<b>Must</b>	<b>XS</b>
<b>User story</b>		
As a user, I want to log out from my account, so that I can keep my account secure.		
<b>Acceptance criteria</b>		
Given that I want to log out, when I click on log out button, then I won't have access to my account features.		

<b>US-04</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>View order</b>	<b>Must</b>	<b>M</b>
<b>User story</b>		
As a owner, I want to view the order, so that I can prepare the order.		
<b>Acceptance criteria</b>		
Given that I need to prepare the order, when I click on the order, then the order details will be displayed.		

<b>US-05</b>		
<b>Title:</b> <b>Update order</b>	<b>Priority:</b> <b>should</b>	<b>Estimate:</b> <b>L</b>
<b>User story</b>  As a owner, I want to update the order, so that I can keep the progress of the order.		
<b>Acceptance criteria</b>		
Given that the order already got sent by the customer, when I click on update order, then the changes in the order details will be saved.		

<b>US-06</b>		
<b>Title:</b> <b>Delete an order</b>	<b>Priority:</b> <b>Must</b>	<b>Estimate:</b> <b>M</b>
<b>User story</b>  As a owner, I want to delete an order, so that I can be able to manage my orders.		
<b>Acceptance criteria</b>		
Given that I want to delete an order, when I click on delete order, then the order will be deleted.		



<b>US-07</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Add product to the cart</b>	<b>Must</b>	<b>L</b>
<b>User story</b>		
As a customer, I want to add product(s) to my cart, so that I can have it in my cart.		
<b>Acceptance criteria</b>		
Given that I want to add product(s), when I click on the buy button on the product page, then the product will be added to my cart.		

<b>US-08</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Remove product(s) from the cart</b>	<b>Must</b>	<b>M</b>
<b>User story</b>		
As a customer, I want to remove product(s) cart, so that I can adjust it.		
<b>Acceptance criteria</b>		
Given that I want to remove product(s) from my cart, when I click on remove button, then the product will be removed from my cart.		

<b>US-09</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>View cart</b>	<b>Must</b>	<b>L</b>
<b>User story</b>  As a customer, I want to view my cart, so that I can check the product(s) in it.		
<b>Acceptance criteria</b>  Given that I want to view my cart, when I click on my cart button, then the cart's details will be displayed.		

<b>US-10</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Create an order</b>	<b>Must</b>	<b>XL</b>
<b>User story</b>  As a customer, I want to create an order, so that I can receive the product(s) that I ordered.		
<b>Acceptance criteria</b>  Given that I want to create an order, when I fill my shipping and billing details and click confirm, then the order will be sent to be prepared and shipped.		

<b>US-12</b>		
<b>Title:</b> <b>Create a product</b>	<b>Priority:</b> <b>Must</b>	<b>Estimate:</b> <b>L</b>
<b>User story</b>  As a owner, I want to create a product, so that I can sell the product to the customer.		
<b>Acceptance criteria</b>		
Given that I want to create product, when I fill the product details and click on create, then the product will be created and the customer will be able to buy it.		

<b>US-13</b>		
<b>Title:</b> <b>View product</b>	<b>Priority:</b> <b>Must</b>	<b>Estimate:</b> <b>M</b>
<b>User story</b>  As a user, I want to see the product, so that I can see the product details.		
<b>Acceptance criteria</b>		
Given that I want to buy or view details about the product, when I click on the product, then the product details will be displayed.		

<b>US-14</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Update product</b>	<b>Should</b>	<b>M</b>
<b>User story</b>		
As a owner, I want to change the product details, so that I can manage my products.		
<b>Acceptance criteria</b>		
Given that I want to update a product, when I change the details and click save, then the changes will be saved.		

<b>US-15</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Delete product</b>	<b>Must</b>	<b>M</b>
<b>User story</b>		
As a owner, I want to delete a product, so that I can manage my products.		
<b>Acceptance criteria</b>		
Given that I want to delete a product, when I click on delete button, then the product will be removed.		

<b>US-16</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Search for a product</b>	<b>Must</b>	<b>L</b>
<b>User story</b>  As a customer, I want to search for a product, so that I can see the product details.		
<b>Acceptance criteria</b>  Given that I want to see product details, when I use the search bar, then the products that match my search specification will be shown.		

<b>US-17</b>		
<b>Title:</b>	<b>Priority:</b>	<b>Estimate:</b>
<b>Recommend product</b>	<b>Could</b>	<b>XL</b>
<b>User story</b>  As a customer, I want to see products that I am intreseted in, so that I can have better shopping experience.		
<b>Acceptance criteria</b>  Given that I want to view product that I am interested in, when I opened the home page, then the products that I am interested in will be shown in the home page.		

## 8. Version table

Sprint	Features	Date
1	<ul style="list-style-type: none"><li>• Get User API</li><li>• View product API</li><li>• Get all products with filtering API</li><li>• Create a product API</li><li>• Delete product API</li></ul>	Sep 16, 2022
2	<ul style="list-style-type: none"><li>• Create order API</li><li>• Home page</li><li>• Product page</li><li>• Log in page</li></ul>	Oct 7, 2022
3	<ul style="list-style-type: none"><li>• Delete order API</li><li>• Get cart API</li><li>• Get Order API</li><li>• Add product to cart API</li><li>• Delete product from cart API</li><li>• Cart page</li><li>• Order page</li><li>• Update Order API</li><li>• Update product API</li></ul>	Nov 4, 2022
4	<ul style="list-style-type: none"><li>• Recommendation system</li><li>• Get Users with filter API</li><li>• Log in with google account</li></ul>	Nov 25, 2022
5		Dec 16, 2022
6		Jan 13, 2023

## 9. Planning

In the coming weeks, the work will start on the software solutions and in these weeks, there will be deliverables based on the requirements of the project, in the following tables there is the plan per week. The final deadline for project is Friday 16th of January 2023 at 23.59.

Sprint	Deliverables	Deadline
1	<ul style="list-style-type: none"><li>• Project planning</li></ul>	23:59 Sep 16, 2022
2	<ul style="list-style-type: none"><li>• Design document version 1</li><li>• 1st prototype iteration</li><li>• Applied research document</li><li>• Create a product</li><li>• Get a product</li><li>• Get products with filtering</li><li>• Delete a product</li><li>• Home page</li><li>• Product page</li><li>• Log in page</li></ul>	23:59 Oct 7, 2022
3	<ul style="list-style-type: none"><li>• Design document version 2</li><li>• Quality assurance</li><li>• Test plan</li><li>• What tests will you do and why? (Unit tests, integration tests, possibly other tests?)</li><li>• 2nd prototype iteration.</li><li>• Research document:</li><li>• Delete an order</li><li>• Get a cart</li><li>• Get an order</li><li>• Add product to cart</li><li>• Delete product from cart</li><li>• Cart page</li><li>• Order page</li><li>• Update Order</li><li>• Update product</li></ul>	23:59 Nov 4, 2022
4	<ul style="list-style-type: none"><li>• Design document version 3</li><li>• 1st release version</li><li>• Quality assurance metrics</li><li>• UX feedback report</li><li>• Recommendation system</li><li>• Get Users with filter</li></ul>	23:59 Nov 25, 2022

Sprint	Deliverables	Deadline
	<ul style="list-style-type: none"> <li>Log in with google account</li> </ul>	
5	<ul style="list-style-type: none"> <li>Final design document</li> <li>Security report</li> <li>2nd release version</li> <li>Up-to-date product and sprint backlogs and burn-down charts.</li> <li>Websockets implemented</li> </ul>	23:59 Dec 16, 2022
6	<ul style="list-style-type: none"> <li>Final design document</li> <li>Final release</li> <li>Up-to-date product, sprint backlogs and burn-down charts.</li> <li>A web performance review</li> </ul>	23:59 Jan 13, 2023