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| Fontys University of Applied Science |
| User Requirements Specifications  Bogdan Calinescu  Synthesis Assignment, Final Version |

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# 1. Agreements

- Log in / Log out should be possible at every time.

- Register.

(username needs to be unique)

-Adding a new product to the catalogue.

- Placing orders.

-User should have a bonus card & can collect point.

-User should be able to spend the bonus points.

# **2.User Requirements**

## 2.1 Functional Requirements

**Sorted by priority**

Must have (M) - Should have (S) - Could have (C) - Won’t have (W)

|  |  |  |
| --- | --- | --- |
| *ID* | *Name* | *Priority (MoSCoW)* |
| FR-01 | User can log in | M |
| FR-02 | User can log out | M |
| FR-03 | Creating new account | M |
| FR-04 | Employee can create products | M |
| FR-05 | Employee can update product information | M |
| FR-06 | Customer can buy products | M |
| FR-07 | Customer can place an order | M |
| FR-8 | User can use the bonus card points | M |

## Non-Functional Requirements

|  |  |  |
| --- | --- | --- |
| *ID* | *Name* | *Description* |
| N-FR-01 | Security | Making sure that the application is safe to use and keeps the information of the users safe. |
| N-FR-02 | Reliability | Including proper testing will take care that the application does not crash or shut down unintentionally. |
| N-FR-03 | Maintainable and extendable | The application is going to have proper OO principles. It will also be functional and easy to use with both a small number of users and a large number of them. |

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# 3.Use Cases

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| Use case | **FR-01 - Login Functionality** |
| Actor | Customer & Employees |
| Main Success scenario | 1. Actor opens the application/website.  2. System asks for username and password.  3. Actor enters the required login credentials.  4. System validates the entered credentials.  5. System redirect actor to the homepage. |
| Extension | 1.a. Incorrect credentials  1. Credentials don't match  2. System notified about wrong credentials  3. Returns to MSS2; |

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| Use case | **FR-02 - Log Out** |
| Actor | Customer & Employees |
| Pre-condition | Actor must be logged in |
| Main Success scenario | 1. Actor selects log out button 2. System redirects the actor to log in page |
| Extensions | ------------------------------------------------------------------------------------ |

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| Use case | **FR-03 – Register to the website** |
| Actor | User |
| Pre-condition | User does not have an account |
| Main Success scenario | 1. System asks to type required personal information (name, email, address, zip code etc.) and a unique username and a password .  2. Actor enters required information  3. System checks if all the requirements are filled in.  4. Registration is confirmed by system and the actor also receives a bonus card .  5.System redirects actor to the log in page. |
| Extensions | 3a: Username is not unique  1.The username that the actor typed is already in use.  2.The system asks for the actor to try another username.  3. Return To MSS step 1. |

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| Use case | **FR-04 –** Employee can create products |
| Actor | Employee |
| Trigger | Employee selects add product button |
| Main Success scenario | 1. System requests the actor to fill in the new products information. 2. Actor fills in the new product information. 3. Systems check if the products do not already exist in the catalogue. 4. System confirms the new product is created and added to the catalogue. |
| Extensions | 3b: Product already exists.  1. System notifies the actor that the product already exists.  2. Return to step 2. of MSS. |

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| Use case | **FR-05-** Employee can update product information |
| Actor | Employee |
| Trigger | Actor selects update product information button |
| Main Success scenario | 1.Actor selects a product from the catalogue  2. System displays the current product information.  3. Actor makes changes to the product and confirms.  4. System displays a confirmation message and saves the changes. |
| Extensions | 3a: Filled in information does not match the system criteria  1. System displays an error message to the actor that the information does not match system criteria  2.Returns to MSS step 3 |

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| Use case | **FR-06-** Customer can buy products |
| Actor | Customer |
| Main Success scenario | 1. After doing US\_01 the actor lands on the home page. 2. The actor then can go to a catalogue of supermarket products and adds to the cart the products he desires. 3. System saves the products added by the user in the cart. |
| Extensions |  |

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| --- | --- |
| Use case | **FR-07** User can place an order |
| Actor | Customer |
| Main Success scenario | 1.After doing all the steps FR-06 the customer can go to his cart by selecting the cart icon.  2.System loads the products in the cart  3. The actor has the option to remove the products from his chart or only specific items.  4.System removes item to the cart if the user selects remove product item.  5.The actor places and confirms an order.  6.System confirms the order and adds a status to the specific order and also the system gives the customer bonus point |
| Extensions | 6.a: One or more products are available in the catalogue anymore  1.System notifies the actor that some of his products in the cart are no longer available |

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| Use case | **FR-8** Customer can use the bonus card points |
| Actor | Customer |
| Main Success scenario | 1.The actor can convert the bonus point to euro(100 point = 1 euro, 80 point = 0.80 cents.)  2. Actor uses bonus point for a discount on a product  3. System convert the bonus point and creates a reasonable discount |
| Extension | 3.a: Not enough bonus points  1.System notifies the actor that he does not have enough bonus point to receive a discount. |