User Requirement Specification

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Synthesis Assignment

TABLE OF CONTENTS

[Agreements 1](#_Toc557752628)

[Functional Requirements 2](#_Toc1964120391)

[User Requirements 4](#_Toc519717566)

Agreements

Functional requirements:

* Managing item (grocery and goods) information.
* Process of placing an order.
* Bonus Card & Collecting bonus points.
* Spending bonus points from the bonus card.
* Login/Register System.
* Client has to have account in order to place an order.
* Client management system is not required.
* Employee management system is not required.
* Item categories management system is not required.
* Items have stock amount.

Non-functional requirements:

* Maintainable and extendable application,
* Bug free solution,
* Secure software

# Functional Requirements

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| ID | FR-01 |
| Name | Managing item information |
| Constraints | Employee provides: name, category, sub-category, price, unit, stock amount, bonus. |

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| ID | FR-02 |
| Name | Placing an order |
| Constraints | Client has an account. |

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| ID | FR-03 |
| Name | Adding items to shopping cart |
| Constraints | Item has to be available it online shopping |

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| ID | FR-04 |
| Name | Viewing order history |
| Constraints | Order is placed before. |

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| ID | FR-05 |
| Name | Bonus Card |
| Constraints | Customers can collect bonus points on their virtual bonus card.  A bonus card gives a percentage-based or fixed-amount discount on  the items cost for the selected items. |

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| ID | FR-06 |
| Name | Receiving Bonus Points |
| Constraints | Customers can also accumulate points based on the amount of the purchase, can transfer (spend) the points into money for future purchase.  Every one euro (€1) spent by a customer must be collected as one (1) bonus point on their bonus card. |

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| ID | FR-07 |
| Name | Spending bonus points from the bonus card |
| Constraints | When there are 100 bonus points collected on the bonus card, they can be transferred to one euro (€ 1) and can be spend during the next order. |

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| ID | FR-08 |
| Name | Register functionality |
| Constraints | User provides first name, last name, email, password, username. |

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| ID | FR-09 |
| Name | Login functionality |
| Constraints | User has to already have an account and provides correct username and password. |

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| ID | FR-0 |
| Name |  |
| Constraints |  |

# Use Cases

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| --- | --- |
| ID | UC-01 FR-01 |
| Use case | Creating new Item |
| Actor | Employee |
| Trigger |  |
| Pre-condition |  |
| Main Success Scenario | 1: Actor goes to create new item.  2: System displays form for adding items  3: Actor fills in information about item and saves item.  4: System saves information and shows confirmation. |
| Extensions | 3a: Not all information is provided  .1: System displays information to provide all information.  .2: Return to MMS step 2. |

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| ID | UC-02 FR-01 |
| Use case | Reading Items |
| Actor | Employee |
| Trigger |  |
| Pre-condition |  |
| Main Success Scenario | 1: Actor goes to list of items.  2: System shows all items in the system. |
| Extensions |  |

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| ID | UC-03 FR-01 |
| Use case | Updating Item |
| Actor | Employee |
| Trigger |  |
| Pre-condition | Item already exists. |
| Main Success Scenario | 1: Actor searches for item to update.  2: System displays list of items.  3: Actor selects item to update.  4: System displays all information of item.  5: Actor updates information about item and saves item.  6: System saves information and shows confirmation. |
| Extensions | 6a: Not all information is provided, or information is incorrect.  .1: System displays information to provide all correct information.  .2: Return to MMS step 5. |

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| ID | UC-04 FR-01 |
| Use case | Deleting Item |
| Actor | Employee |
| Trigger |  |
| Pre-condition | Item already exists. |
| Main Success Scenario | 1: Actor searches for item to delete.  2: System displays list of items.  3: Actor selects item to delete.  4: System deletes item and shows confirmation of deletion. |
| Extensions |  |

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| ID | UC-05 FR-02 |
| Use case | Placing an order |
| Actor | Client |
| Trigger |  |
| Pre-condition | Items added to shopping cart and Actor is logged to Account |
| Main Success Scenario | 1: Actor checks out shopping cart.  2: System displays shopping cart.  3: Actor buys items in shopping cart.  4: System displays payment and shipping form.  5: Actor selects payment method and provides shipping information.  6: System saves order information.  7: Order Details are being displayed. |
| Extensions | 3a: No items in the shopping cart.  .1: System displays information that shopping cart is empty.  .2: Return to MMS step 1.  5a: Not all information is provided  .1: System displays information to provide all information.  .2: Return to MMS step 5. |

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| --- | --- |
| ID | UC-06 FR-03 |
| Use case | Adding item to shopping cart |
| Actor | Client |
| Trigger | Client goes to item page. |
| Pre-condition | Item must be available. |
| Main Success Scenario | 1: Actor selects the item to add and the amount.  2: Actor changes order information. |
| Extensions | 1a: Actor wants to more item unit than is in stock.  .1: System restricts Client from adding more item unit.  .2: Return to MMS step 1. |

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| ID | UC-07 FR-03 |
| Use case | Deleting item from shopping cart |
| Actor | Client |
| Trigger | Client goes to shopping cart page. |
| Pre-condition | Items must be in shopping cart |
| Main Success Scenario | 1: Actor selects the item to delete.  2: System deletes item form shopping cart and updates page. |
| Extensions |  |

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| ID | UC-07 FR-04 |
| Use case | Viewing orders history. |
| Actor | Client |
| Trigger |  |
| Pre-condition | Order must be placed by client before. |
| Main Success Scenario | 1: Actor goes to order history page.  2: Information about status of previous orders is displayed. |
| Extensions |  |

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| ID | UC-08 FR-04 |
| Use case | Viewing previous order. |
| Actor | Client |
| Trigger | Actor goes to order history page. |
| Pre-condition | Order must be placed by client before. |
| Main Success Scenario | 1: Actor selects order.  2: Information about selected order is displayed. |
| Extensions |  |

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| ID | UC-09 FR-05 |
| Use case | Placing an order with Bonus Card |
| Actor | Client |
| Trigger |  |
| Pre-condition | Items added to shopping cart and Actor has Bonus Card. |
| Main Success Scenario | 1: Actor checks out shopping cart.  2: System displays shopping cart.  3: Actor buys items in shopping cart.  4: Based on Bonus Card system applies appropriate discounts.  5: System displays payment and shipping form.  6: Actor selects payment method and provides shipping information.  7: Order Details are being displayed with amount of bonus points added to Bonus Card. |
| Extensions | 3a: No items in the shopping cart.  .1: System displays information that shopping cart is empty.  .2: Return to MMS step 1.  6a: Not all information is provided WHAT ABOUT ADRESS?  .1: System displays information to provide all information.  .2: Return to MMS step 5. |

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| ID | UC-10 FR-07 |
| Use case | Placing an order with Bonus Card and spending Bonus points |
| Actor | Client |
| Trigger |  |
| Pre-condition | Items added to store, Actor has Bonus Card and Actor has at least 100 points on Bonus Card. |
| Main Success Scenario | 1: Actor checks out shopping cart.  2: System displays shopping cart.  3: Actor buys items in shopping cart.  4: Based on Bonus Card system applies appropriate discounts.  5: System displays payment and shipping form.  6: Actor selects payment method, provides shipping information and chooses how many Bonus Points he/she wants to exchange to Euros for the discount.  7: Order Details are being displayed with amount of bonus points added to Bonus Card. |
| Extensions | 3a: No items in the shopping cart.  .1: System displays information that shopping cart is empty.  .2: Return to MMS step 1.  6a: Not all information is provided  .1: System displays information to provide all information.  .2: Return to MMS step 5. |

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| ID | UC-11 FR-08 |
| Use case | Register Account |
| Actor | Client |
| Trigger | Actor goes to Register page |
| Pre-condition |  |
| Main Success Scenario | 1: System displays form to register  2: Actor fills in needed information.  3: System checks provided credentials and creates account.  4. System redirects to main page. |
| Extensions | 3a: Provided credentials are incorrect.  .1: System displays information about wrong credentials.  .2: Go to MMS step 2  3b: User with those credentials already exists  .1: System displays information that this account already exists.  .2: Go to MMS step 3 |

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| ID | UC-12 FR-09 |
| Use case | Login to system |
| Actor | Client |
| Trigger | Client goes to Login page. |
| Pre-condition | Client already has an account. |
| Main Success Scenario | 1: System displays form to login  2: Actor fills in needed information.  3: System checks provided credentials.  4. System redirects to main page. |
| Extensions | 3a: Provided credentials are incorrect.  .1: System displays information about wrong credentials.  .2: Go to MMS step 2  3b: User with those credentials already exists  .1: System displays information that this account already exists.  .2: Go to MMS step 3 |

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| ID | UC-1 FR-0 |
| Use case |  |
| Actor |  |
| Trigger |  |
| Pre-condition |  |
| Main Success Scenario |  |
| Extensions |  |

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| --- | --- |
| ID | UC-1 FR-0 |
| Use case |  |
| Actor |  |
| Trigger |  |
| Pre-condition |  |
| Main Success Scenario |  |
| Extensions |  |