User Requirement Specification

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Synthesis Assignment

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Agreements

Functional requirements:

* Managing item (grocery and goods) information,
* Process of placing and tracking an order,
* Bonus Card & Collecting bonus points
* Spending bonus points from the bonus card

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 |  |

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

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| --- | --- |
| ID | FR-03 |
| Name | Processing a placed order. |
| Constraints | An order is placed by a customer |

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| ID | FR-04 |
| Name | Tracking an order |
| Constraints | Order is processed by employee. |

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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 | 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-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: Actor fills in information about item.  3: System shows confirmation. |
| Extensions | 2a: 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 selects item to update.  2: Actor updates information about item.  3: System shows confirmation. |
| Extensions | 2a: 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-04 FR-01 |
| Use case | Deleting Item |
| Actor | Employee |
| Trigger |  |
| Pre-condition | Item already exists. |
| Main Success Scenario | 1: Actor selects item to delete.  3: System 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 store and Actor is logged to Account |
| Main Success Scenario | 1: Actor selects available item.  2: Item is added to shopping cart.  3: Actor checks out shopping cart.  4: Actor selects payment method.  5: Actor provides shipping information.  6: 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 | Changing the status of order. |
| Actor | Employee |
| Trigger |  |
| Pre-condition | Order must be placed by client before. |
| Main Success Scenario | 1: Actor select the order to change.  2: Actor changes order information. |
| Extensions | 2a: Incorrect information is provided  .1: System displays information to provide all information.  .2: Return to MMS step 2. |

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| ID | UC-07 FR-04 |
| Use case | Tracking the order. |
| Actor | Client |
| Trigger |  |
| Pre-condition | Order must be placed by client before. |
| Main Success Scenario | 1: Actor selects order.  2: Information about status of selected order is displayed. |
| Extensions |  |

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| ID | UC-08 FR-04 |
| Use case | Viewing order 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-09 FR-05 |
| Use case | Placing an order with Bonus Card |
| Actor | Client |
| Trigger |  |
| Pre-condition | Items added to store and Actor has Bonus Card. |
| Main Success Scenario | 1: Actor selects available item.  2: Item is added to shopping cart.  3: Actor checks out shopping cart.  4: Actor provides Bonus Card ID or is logged in to account with Bonus Card?  5: Appropriate discounts are being applied.  6: Actor selects payment method.  7: Actor provides shipping information.  8: 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.  4a: Client does not have Bonus Card.  .1: Go to MMS step 6.  7a: 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-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 selects available item.  2: Item is added to shopping cart.  3: Actor checks out shopping cart.  4: Actor provides Bonus Card ID or is logged in to account with Bonus Card?  5: Appropriate discounts are being applied.  6: Actor selects payment method and Actor chooses how many Bonus Points he/she wants to exchange to Euros for the discount.  7: Actor provides shipping information.  8: 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.  4a: Client does not have Bonus Card.  .1: Go to MMS step 6.  7a: 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-0 FR-0 |
| Use case |  |
| Actor |  |
| Trigger |  |
| Pre-condition |  |
| Main Success Scenario |  |
| Extensions |  |