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| <b>Use Case Name</b>                         | Starting up the system.                                                                         |               |
| <b>Requirement Number</b>                    | 1.1                                                                                             |               |
| <b>Actors</b>                                | User                                                                                            |               |
| <b>Parameters</b>                            | None                                                                                            |               |
| <b>Preconditions</b>                         | 1. The machine has the latest version of the system.<br>2. The machine has a stable connection. |               |
| <b>Actions</b>                               | 1. The User runs the application.                                                               |               |
| <b>Result</b>                                | The User is appointed Guest and receives an empty Shopping cart.                                |               |
| <b>Data</b>                                  |                                                                                                 | <b>Result</b> |
| The User has no connection to the server.    |                                                                                                 | Fail          |
| The User has an older version of the client. |                                                                                                 | Fail          |

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| <b>Use Case Name</b>                                            | Exiting the system.                                                                                              |               |
| <b>Requirement Number</b>                                       | 1.2                                                                                                              |               |
| <b>Actors</b>                                                   | User                                                                                                             |               |
| <b>Parameters</b>                                               | None                                                                                                             |               |
| <b>Preconditions</b>                                            | None                                                                                                             |               |
| <b>Actions</b>                                                  | 1. The User closes the client application.<br>2. If the User is logged in, the System runs logging out use case. |               |
| <b>Result</b>                                                   | None.                                                                                                            |               |
| <b>Data</b>                                                     |                                                                                                                  | <b>Result</b> |
| A Member is existing the System, his Shopping cart is reloaded. |                                                                                                                  | Success       |
| A Guest is exiting the System, his Shopping cart is discarded.  |                                                                                                                  | Success       |

|                                                             |                                                                                                                                                                                                                                                                                                                                                                            |               |
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| <b>Use Case Name</b>                                        | Registering                                                                                                                                                                                                                                                                                                                                                                |               |
| <b>Requirement Number</b>                                   | 1.3                                                                                                                                                                                                                                                                                                                                                                        |               |
| <b>Actors</b>                                               | Guest                                                                                                                                                                                                                                                                                                                                                                      |               |
| <b>Parameters</b>                                           | <i>Username, Password.</i>                                                                                                                                                                                                                                                                                                                                                 |               |
| <b>Preconditions</b>                                        | The <i>Username</i> is not already known in the System.                                                                                                                                                                                                                                                                                                                    |               |
| <b>Actions</b>                                              | 1. The User requests to register with some <i>Username</i> and <i>Password</i> .<br>2. The System Verifies the <i>Password</i> 's security level and that the <i>Username</i> does not already exist.<br>3. If one of the previous verifications fails, the User is not registered and the System notifies the User.<br>4. Else, a new Member is registered in the System. |               |
| <b>Result</b>                                               | A new member can now be logged in to in the System.                                                                                                                                                                                                                                                                                                                        |               |
| <b>Data</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                            | <b>Result</b> |
| The User enters a Username that's already in use.           |                                                                                                                                                                                                                                                                                                                                                                            | Fail          |
| The User is trying to use an insecure password.             |                                                                                                                                                                                                                                                                                                                                                                            | Fail          |
| The User is using a unique username with a secure password. |                                                                                                                                                                                                                                                                                                                                                                            | Success       |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use Case Name</b>                          | Login                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Requirement Number</b>                     | 1.4                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Actors</b>                                 | Guest                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Parameters</b>                             | <i>Username, Password.</i>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Preconditions</b>                          | 1. The requested user was registered in the system beforehand.<br>2. The system has connection.                                                                                                                                                                                                                                                                                                                  |
| <b>Actions</b>                                | 1. Guest inputs <i>Username</i> and <i>Password</i><br>2. If the Guest is already logged in the process is stopped and an error message appears.<br>3. The System verifies the <i>Username, Password</i> combination.<br>4. If the System doesn't recognize the combination the Guest is notified with the appropriate error message.<br>5. The System loads the Member's saved Shopping Cart and notifications. |
| <b>Result</b>                                 | The Guest receives logged in status for the requested Member, and the Shopping Cart receives earlier saved Products.                                                                                                                                                                                                                                                                                             |
| <b>Data</b>                                   | <b>Result</b>                                                                                                                                                                                                                                                                                                                                                                                                    |
| The Username is unknown to the system.        | Fail                                                                                                                                                                                                                                                                                                                                                                                                             |
| The password is incorrect.                    | Fail                                                                                                                                                                                                                                                                                                                                                                                                             |
| The username password combination is correct. | Success                                                                                                                                                                                                                                                                                                                                                                                                          |

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| <b>Use Case Name</b>                              | Searching for a Store.                                                                                                                                                                                                                       |
| <b>Requirement Number</b>                         | 2.1                                                                                                                                                                                                                                          |
| <b>Actors</b>                                     | User                                                                                                                                                                                                                                         |
| <b>Parameters</b>                                 | <i>Store_attributes</i>                                                                                                                                                                                                                      |
| <b>Preconditions</b>                              | None                                                                                                                                                                                                                                         |
| <b>Actions</b>                                    | 1. User requests stores that have some specific attributes.<br>2. The System presents all stores that apply.<br>3. User selects a specific store.<br>4. The System presents all the Products the Store has and any other public information. |
| <b>Result</b>                                     | A Store.                                                                                                                                                                                                                                     |
| <b>Data</b>                                       | <b>Result</b>                                                                                                                                                                                                                                |
| The User searches for a store that doesn't exist. | Success                                                                                                                                                                                                                                      |
| The User searches for a specific known store.     | Success                                                                                                                                                                                                                                      |

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| <b>Use Case Name</b>                                    | Searching for a Product.                                                                                                                                                                                |               |
| <b>Requirement Number</b>                               | 2.2                                                                                                                                                                                                     |               |
| <b>Actors</b>                                           | User                                                                                                                                                                                                    |               |
| <b>Parameters</b>                                       | <i>Product_attributes</i>                                                                                                                                                                               |               |
| <b>Preconditions</b>                                    | None                                                                                                                                                                                                    |               |
| <b>Actions</b>                                          | 1. User requests a Product with specific attributes from the System.<br>2. The System presents all Products from any Store, which apply to those attributes.<br>3. The User selects a specific Product. |               |
| <b>Result</b>                                           | A Product.                                                                                                                                                                                              |               |
| <b>Data</b>                                             |                                                                                                                                                                                                         | <b>Result</b> |
| The User is searching for a product that doesn't exist. |                                                                                                                                                                                                         | Success       |
| The User is searching for a product that exists.        |                                                                                                                                                                                                         | Success       |

|                                                                     |                                                                                                                                                 |               |
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| <b>Use Case Name</b>                                                | Adding a Product to the Shopping Cart.                                                                                                          |               |
| <b>Requirement Number</b>                                           | 2.3                                                                                                                                             |               |
| <b>Actors</b>                                                       | User                                                                                                                                            |               |
| <b>Parameters</b>                                                   | <i>Product</i>                                                                                                                                  |               |
| <b>Preconditions</b>                                                | 1. The Product is sold by some Store.<br>2. The User has a Shopping Cart.                                                                       |               |
| <b>Actions</b>                                                      | 1. The User finds a Product (either from use case 2.2 or 2.1).<br>2. The User requests from the System to add the Product to the Shopping Cart. |               |
| <b>Result</b>                                                       | The User's Shopping Cart receives the Product from the appropriate store.                                                                       |               |
| <b>Data</b>                                                         |                                                                                                                                                 | <b>Result</b> |
| The User is adding a product from a Store.                          |                                                                                                                                                 | Success       |
| The User is adding a product found from searching a product.        |                                                                                                                                                 | Success       |
| The User is adding more of the product than the store has to offer. |                                                                                                                                                 | Fail          |

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| <b>Use Case Name</b>                                                     | Inspecting Shopping Cart                                                             |               |
| <b>Requirement Number</b>                                                | 2.4                                                                                  |               |
| <b>Actors</b>                                                            | User                                                                                 |               |
| <b>Parameters</b>                                                        | <i>Username</i>                                                                      |               |
| <b>Preconditions</b>                                                     | None                                                                                 |               |
| <b>Actions</b>                                                           | 1. User requests for his Shopping Cart.<br>2. The System presents the Shopping Cart. |               |
| <b>Result</b>                                                            | A Shopping Cart                                                                      |               |
| <b>Data</b>                                                              |                                                                                      | <b>Result</b> |
| The User is inspecting his shopping cart when it has no Products.        |                                                                                      | Success       |
| The User is inspecting his shopping cart when it has 1 or more products. |                                                                                      | Success       |

|                                                                              |                                                                                                                                                                                                                                                                           |               |
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| <b>Use Case Name</b>                                                         | Removing a Product from the Shopping Cart                                                                                                                                                                                                                                 |               |
| <b>Requirement Number</b>                                                    | 2.4                                                                                                                                                                                                                                                                       |               |
| <b>Actors</b>                                                                | User                                                                                                                                                                                                                                                                      |               |
| <b>Parameters</b>                                                            | <i>Product, Shopping_Cart</i>                                                                                                                                                                                                                                             |               |
| <b>Preconditions</b>                                                         | <i>Shopping_Cart</i> has at least 1 <i>Product</i> .                                                                                                                                                                                                                      |               |
| <b>Actions</b>                                                               | 1. User requests from the System to remove <i>Product</i> from his shopping cart.<br>2. The System fetches the User's <i>Shopping_Cart</i> .<br>3. If the <i>Shopping_Cart</i> doesn't have the <i>Product</i> , the user is notified with the appropriate error message. |               |
| <b>Result</b>                                                                | <i>Shopping_Cart</i> no longer has <i>Product</i> .                                                                                                                                                                                                                       |               |
| <b>Data</b>                                                                  |                                                                                                                                                                                                                                                                           | <b>Result</b> |
| The User is attempting to remove a product from an empty cart.               |                                                                                                                                                                                                                                                                           | Fail          |
| The User is attempting to remove a product that exists in his shopping cart. |                                                                                                                                                                                                                                                                           | Success       |

|                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |               |
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| <b>Use Case Name</b>                                                                      | Purchasing a Shopping Cart, with verified delivery and payment.                                                                                                                                                                                                                                                                                                        |               |
| <b>Requirement Number</b>                                                                 | 2.5                                                                                                                                                                                                                                                                                                                                                                    |               |
| <b>Actors</b>                                                                             | User                                                                                                                                                                                                                                                                                                                                                                   |               |
| <b>Parameters</b>                                                                         | <i>Shopping_Cart, Payment, Supplyment</i>                                                                                                                                                                                                                                                                                                                              |               |
| <b>Preconditions</b>                                                                      | 1. The <i>Shopping_Cart</i> is not empty.<br>2. For every <i>Product</i> in the <i>Shopping_Cart</i> the Store which sells it has the amount of that <i>Product</i> that is listed in the <i>Shopping_Cart</i> .<br>3. The <i>Supplyment</i> and <i>Payment</i> succeeded.                                                                                             |               |
| <b>Actions</b>                                                                            | 1. The User requests from the System to buy his shopping cart with a specific <i>Payment</i> type and <i>Supplier</i> .<br>2. The System verifies the <i>Payment</i> .<br>3. The System verifies the <i>Supplyment</i> .<br>4. The System triggers the payment and supply, updates the Store with the amounts and triggers the purchase event on the notification bus. |               |
| <b>Result</b>                                                                             | The Purchase is completed, the relevant Members are notified and the relevant amounts on the Stores are updated.                                                                                                                                                                                                                                                       |               |
| <b>Data</b>                                                                               |                                                                                                                                                                                                                                                                                                                                                                        | <b>Result</b> |
| The User is attempting to buy an empty shopping cart.                                     |                                                                                                                                                                                                                                                                                                                                                                        | Fail          |
| The User is attempting to buy a shopping cart with at least 1 product.                    |                                                                                                                                                                                                                                                                                                                                                                        | Success       |
| The User is attempting to buy a shopping cart without selecting payment type or supplier. |                                                                                                                                                                                                                                                                                                                                                                        | Fail          |

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| <b>Use Case Name</b>                                                          | Purchasing a Shopping Cart, when payment method fails.                                                                                                                                                                                                               |               |
| <b>Requirement Number</b>                                                     | 2.5                                                                                                                                                                                                                                                                  |               |
| <b>Actors</b>                                                                 | User                                                                                                                                                                                                                                                                 |               |
| <b>Parameters</b>                                                             | <i>Shopping_Cart, Payment, Supplyment</i>                                                                                                                                                                                                                            |               |
| <b>Preconditions</b>                                                          | 1. The <i>Shopping_Cart</i> is not empty.<br>2. For every Product in the <i>Shopping_Cart</i> the Store which sells it has the amount of that Product that is listed in the <i>Shopping_Cart</i> .<br>3. The <i>Payment</i> fails to verify.                         |               |
| <b>Actions</b>                                                                | 1. The User requests from the System to buy his shopping cart with a specific Payment type and Supplier.<br>2. The System attempts to verify the <i>Payment</i> .<br>3. The System informs the User that the payment failed and that his purchase didn't go through. |               |
| <b>Result</b>                                                                 | The Purchase is not completed and the User is notified.                                                                                                                                                                                                              |               |
| <b>Data</b>                                                                   |                                                                                                                                                                                                                                                                      | <b>Result</b> |
| The User is attempting to buy with illegal credit card information.           |                                                                                                                                                                                                                                                                      | Fail          |
| The User is attempting to use a credit card without enough funds.             |                                                                                                                                                                                                                                                                      | Fail          |
| The User is attempting to buy a shopping cart without selecting payment type. |                                                                                                                                                                                                                                                                      | Fail          |

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| <b>Use Case Name</b>                                                           | Purchasing a Shopping Cart, when delivery service fails.                                                                                                                                                                                                                                                                         |               |
| <b>Requirement Number</b>                                                      | 2.5                                                                                                                                                                                                                                                                                                                              |               |
| <b>Actors</b>                                                                  | User                                                                                                                                                                                                                                                                                                                             |               |
| <b>Parameters</b>                                                              | <i>Shopping_Cart, Payment, Supplyment</i>                                                                                                                                                                                                                                                                                        |               |
| <b>Preconditions</b>                                                           | 1. The <i>Shopping_Cart</i> is not empty.<br>2. For every Product in the <i>Shopping_Cart</i> the Store which sells it has the amount of that Product that is listed in the <i>Shopping_Cart</i> .<br>3. The <i>Payment</i> verifies successfully.<br>4. The <i>Supplyment</i> fails to verify.                                  |               |
| <b>Actions</b>                                                                 | 1. The User requests from the System to buy his shopping cart with a specific Payment type and Supplier.<br>2. The System verifies the <i>Payment</i> .<br>3. The System attempts to verify the <i>Supplyment</i> .<br>4. The System fails to verify.<br>5. The System cancels the <i>Payment</i> .<br>6. The notifies the User. |               |
| <b>Result</b>                                                                  | The Purchase is not completed and the User is notified.                                                                                                                                                                                                                                                                          |               |
| <b>Data</b>                                                                    |                                                                                                                                                                                                                                                                                                                                  | <b>Result</b> |
| The User is attempting to buy with illegal address.                            |                                                                                                                                                                                                                                                                                                                                  | Fail          |
| The User is attempting to use a supplier that doesn't operate in his address.  |                                                                                                                                                                                                                                                                                                                                  | Fail          |
| The User is attempting to buy a shopping cart without selecting supplier type. |                                                                                                                                                                                                                                                                                                                                  | Fail          |

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| <b>Use Case Name</b>                                    | Logging out                                                                                                                                                            |
| <b>Requirement Number</b>                               | 3.1                                                                                                                                                                    |
| <b>Actors</b>                                           | Member                                                                                                                                                                 |
| <b>Parameters</b>                                       | <i>Member</i>                                                                                                                                                          |
| <b>Preconditions</b>                                    | The <i>Member</i> is logged in                                                                                                                                         |
| <b>Actions</b>                                          | 1. The Member requests to log out from the System.<br>2. The System saves his/her current Shopping Cart content<br>3. The System changes the Member's status to Guest. |
| <b>Result</b>                                           | The Member becomes a Guest and the Shopping Cart is saved.                                                                                                             |
| <b>Data</b>                                             | <b>Result</b>                                                                                                                                                          |
| A Guest is attempting to log out.                       | Fail                                                                                                                                                                   |
| The Member is logging out with products in his cart.    | Success                                                                                                                                                                |
| The Member is logging out with no products in his cart. | Success                                                                                                                                                                |

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| <b>Use Case Name</b>                                                  | Opening a Store                                                                                                                                                                                                               |
| <b>Requirement Number</b>                                             | 3.2                                                                                                                                                                                                                           |
| <b>Actors</b>                                                         | Member                                                                                                                                                                                                                        |
| <b>Parameters</b>                                                     | None                                                                                                                                                                                                                          |
| <b>Preconditions</b>                                                  | The Member is logged in                                                                                                                                                                                                       |
| <b>Actions</b>                                                        | 1. The Member requests to open a Store with some attributes.<br>2. The System verifies the attributes are legal, if it fails it notifies the Member.<br>3. The System makes a new Store and appoints the Member as a Founder. |
| <b>Result</b>                                                         | A new Store is created.                                                                                                                                                                                                       |
| <b>Data</b>                                                           | <b>Result</b>                                                                                                                                                                                                                 |
| A Guest is attempting to open a store.                                | Fail                                                                                                                                                                                                                          |
| A Member is attempting to open a store with invalid store attributes. | Fail                                                                                                                                                                                                                          |
| A Member is attempting to open a store with legal attributes.         | Success                                                                                                                                                                                                                       |

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| <b>Use Case Name</b>                                                    | Writing a review for a Product                                                                                                                                                                                                                                                                    |
| <b>Requirement Number</b>                                               | 3.3                                                                                                                                                                                                                                                                                               |
| <b>Actors</b>                                                           | Member                                                                                                                                                                                                                                                                                            |
| <b>Parameters</b>                                                       | <i>Member_ID, Product, review_string</i>                                                                                                                                                                                                                                                          |
| <b>Preconditions</b>                                                    | The Member previously Purchased the Product                                                                                                                                                                                                                                                       |
| <b>Actions</b>                                                          | 1. The Member requests to submit a review for a Product.<br>2. The System verifies that the <i>Product</i> is still sold by the Store, and that the <i>review_string</i> is legal.<br>3. If the System fails to verify one of the above, the review is not submitted, and the Member is notified. |
| <b>Result</b>                                                           | The System posts the review and notifies relevant Members.                                                                                                                                                                                                                                        |
| <b>Data</b>                                                             | <b>Result</b>                                                                                                                                                                                                                                                                                     |
| A Member is trying to write a review with 500+ characters.              | Fail                                                                                                                                                                                                                                                                                              |
| A Member is trying to write a review for a product he did not purchase. | Fail                                                                                                                                                                                                                                                                                              |
| A Member is trying to write a review for a product he did purchase.     | Success                                                                                                                                                                                                                                                                                           |

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| <b>Use Case Name</b>                                         | Rating a Product and Store                                                                                                                                                                                                                                     |               |
| <b>Requirement Number</b>                                    | 3.4                                                                                                                                                                                                                                                            |               |
| <b>Actors</b>                                                | Member                                                                                                                                                                                                                                                         |               |
| <b>Parameters</b>                                            | <i>Rating, Store, Product</i>                                                                                                                                                                                                                                  |               |
| <b>Preconditions</b>                                         | The Member haven't rated this Store and Product before.                                                                                                                                                                                                        |               |
| <b>Actions</b>                                               | 1. The Member requests from the System to rate with a specific rating.<br>2. The System verifies the preconditions and that the <i>Rating</i> has a legal value.<br>3. If the System fails to verify, the Member is notified, and the rating is not submitted. |               |
| <b>Result</b>                                                | The rating is submitted.                                                                                                                                                                                                                                       |               |
| <b>Data</b>                                                  |                                                                                                                                                                                                                                                                | <b>Result</b> |
| A Member is trying to rate twice the same Store and Product. |                                                                                                                                                                                                                                                                | Fail          |
| A Guest is trying to rate.                                   |                                                                                                                                                                                                                                                                | Fail          |
| A Member is trying to rate with legal rating value.          |                                                                                                                                                                                                                                                                | Success       |
| A Member is trying to rate with illegal rating value.        |                                                                                                                                                                                                                                                                | Fail          |

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| <b>Use Case Name</b>                                                              | Sending a message to a Store                                                                                                                                                                           |               |
| <b>Requirement Number</b>                                                         | 3.5                                                                                                                                                                                                    |               |
| <b>Actors</b>                                                                     | Member                                                                                                                                                                                                 |               |
| <b>Parameters</b>                                                                 | <i>Store, Subject_string, body_string</i>                                                                                                                                                              |               |
| <b>Preconditions</b>                                                              | None                                                                                                                                                                                                   |               |
| <b>Actions</b>                                                                    | 1. The Member selects a store and requests to send a message with a <i>Subject_string</i> title and <i>body_string</i> .<br>2. The System sends the Message to the relevant Members and notifies them. |               |
| <b>Result</b>                                                                     | The relevant Members are notified and receive the message.                                                                                                                                             |               |
| <b>Data</b>                                                                       |                                                                                                                                                                                                        | <b>Result</b> |
| A Member is attempting to send a message with invalid body or title length.       |                                                                                                                                                                                                        | Fail          |
| A Member is attempting to send a message to a Store that doesn't exist.           |                                                                                                                                                                                                        | Fail          |
| A Member is attempting to send a message with legal values for title and subject. |                                                                                                                                                                                                        | Success       |

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| <b>Use Case Name</b>                                            | Filling complaint to System admin                                                                                                                                                                                                                                                                               |               |
| <b>Requirement Number</b>                                       | 3.6                                                                                                                                                                                                                                                                                                             |               |
| <b>Actors</b>                                                   | User                                                                                                                                                                                                                                                                                                            |               |
| <b>Parameters</b>                                               | <i>title_string, body_string, purchase_id</i>                                                                                                                                                                                                                                                                   |               |
| <b>Preconditions</b>                                            | None                                                                                                                                                                                                                                                                                                            |               |
| <b>Actions</b>                                                  | 1. The user requests the system to send a complaint to the system administrator about a purchase.<br>2. The system prompts the user to enter title,body and purchase id.<br>3. the user enter title_string,body_string and purchase_id<br>4. The system sends the message and notifies the system administrator |               |
| <b>Result</b>                                                   | The relevant Member is notified about the message                                                                                                                                                                                                                                                               |               |
| <b>Data</b>                                                     |                                                                                                                                                                                                                                                                                                                 | <b>Result</b> |
| The User enters an invalid title/body                           |                                                                                                                                                                                                                                                                                                                 | Fail          |
| The user didn't purchase anything                               |                                                                                                                                                                                                                                                                                                                 | Fail          |
| The user purchased something and he filled valid title and body |                                                                                                                                                                                                                                                                                                                 | Success       |



|                                          |                                                                                                          |               |
|------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                     | Getting information about former purchases                                                               |               |
| <b>Requirement Number</b>                | 3.7                                                                                                      |               |
| <b>Actors</b>                            | Member                                                                                                   |               |
| <b>Parameters</b>                        | None                                                                                                     |               |
| <b>Preconditions</b>                     | Member is logged in                                                                                      |               |
| <b>Actions</b>                           | 1. The member requests the system for his purchase history<br>2. The system fetches his purchase history |               |
| <b>Result</b>                            | The relevant Member receive his purchase history                                                         |               |
| <b>Data</b>                              |                                                                                                          | <b>Result</b> |
| The Member is not logged in              |                                                                                                          | Fail          |
| The Member's purchasing history is empty |                                                                                                          | Success       |
| The Member has made some purchases       |                                                                                                          | Success       |

|                             |                                                                                                                                 |               |
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| <b>Use Case Name</b>        | Receiving information                                                                                                           |               |
| <b>Requirement Number</b>   | 3.8                                                                                                                             |               |
| <b>Actors</b>               | Member                                                                                                                          |               |
| <b>Parameters</b>           | <i>The identification parameter the user wants to change</i>                                                                    |               |
| <b>Preconditions</b>        | Member is logged in                                                                                                             |               |
| <b>Actions</b>              | 1. The member requests the system to view his information<br>2. The system fetches the member's information and shows it to him |               |
| <b>Result</b>               | The relevant Member gets his information                                                                                        |               |
| <b>Data</b>                 |                                                                                                                                 | <b>Result</b> |
| The Member is logged in     |                                                                                                                                 | Success       |
| The Member is not loggen in |                                                                                                                                 | Fail          |

|                                             |                                                                                                                                                                                                                                                                                                       |               |
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| <b>Use Case Name</b>                        | changing password/username                                                                                                                                                                                                                                                                            |               |
| <b>Requirement Number</b>                   | 3.8                                                                                                                                                                                                                                                                                                   |               |
| <b>Actors</b>                               | Member                                                                                                                                                                                                                                                                                                |               |
| <b>Parameters</b>                           | <i>Password/username the user wants to change</i>                                                                                                                                                                                                                                                     |               |
| <b>Preconditions</b>                        | Member is logged in                                                                                                                                                                                                                                                                                   |               |
| <b>Actions</b>                              | 1. The member requests the system to change password/username<br>2. The system prompts the member to enter new password/username<br>3. The member enter new password/username<br>4. The system verifies the username/password<br><b>No table of figures entries found.</b> are valid and changes them |               |
| <b>Result</b>                               | The relevant Member is notified that the parameters have changed                                                                                                                                                                                                                                      |               |
| <b>Data</b>                                 |                                                                                                                                                                                                                                                                                                       | <b>Result</b> |
| The Member's new identifications are valid  |                                                                                                                                                                                                                                                                                                       | Success       |
| The Member's new identification are invalid |                                                                                                                                                                                                                                                                                                       | Fail          |
| The member is not logged in                 |                                                                                                                                                                                                                                                                                                       | Fail          |

|                                                |                                                                                                                                                                                     |               |
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| <b>Use Case Name</b>                           | Upgrading the account security                                                                                                                                                      |               |
| <b>Requirement Number</b>                      | 3.9                                                                                                                                                                                 |               |
| <b>Actors</b>                                  | Member                                                                                                                                                                              |               |
| <b>Parameters</b>                              | <i>answer_string</i>                                                                                                                                                                |               |
| <b>Preconditions</b>                           | The member is logged in                                                                                                                                                             |               |
| <b>Actions</b>                                 | 1. The Member requests the system to upgrade his account security<br>2. The Member enters Security question and answer<br>3. The system saves the question and the member's answer. |               |
| <b>Result</b>                                  | The relevant Member is notified the process has been completed successfully.                                                                                                        |               |
| <b>Data</b>                                    |                                                                                                                                                                                     | <b>Result</b> |
| The member enters an empty string as an answer |                                                                                                                                                                                     | Fail          |
| The member submits a valid answer              |                                                                                                                                                                                     | Success       |
| Guest is trying to add Security questions      |                                                                                                                                                                                     | Fail          |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use Case Name</b>      | Update product information                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Requirement Number</b> | 4.1,5                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Actors</b>             | Manager                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Parameters</b>         | <i>Store, Product</i>                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Preconditions</b>      | 1. Store manager must have proper permission from store owner<br>2. Store manager must have proper permission from store owner                                                                                                                                                                                                                                                                                           |
| <b>Actions</b>            | 1. The Manager chooses one of the options: edit or delete<br>2. The System verifies the Manager has the right permissions to perform those actions<br>3. If the Manager chose delete:<br>3.1. The system deletes the product<br>4. If the Manager chose to edit:<br>4.1. The system prompts the Manager for updated values for the product.<br>4.2. The Manager enters new values<br>4.3. The system updates the product |
| <b>Result</b>             | The relevant Manager is notified about the change                                                                                                                                                                                                                                                                                                                                                                        |

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|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use Case Name</b>                                                           | Manage store inventory and update products                                                                                                                                             |
| <b>Requirement Number</b>                                                      | 4.1,5                                                                                                                                                                                  |
| <b>Actors</b>                                                                  | Manager, Store,Store Manager                                                                                                                                                           |
| <b>Parameters</b>                                                              | <i>None</i>                                                                                                                                                                            |
| <b>Preconditions</b>                                                           | 1. Manager is logged in<br>2. Store manager must have proper permission from store owner                                                                                               |
| <b>Actions</b>                                                                 | 1. The Manager selects a store and requests to see the store's products.<br>2. The System shows the manager all the available products<br>3. If the manager requests to edit a product |
| <b>Result</b>                                                                  | The relevant Member gets the information about the store                                                                                                                               |
| <b>Data</b>                                                                    |                                                                                                                                                                                        |
| The Manager doesn't have the right permissions                                 | Fail                                                                                                                                                                                   |
| The Manager has permissions and he deletes/updates a product                   | Success                                                                                                                                                                                |
| The Manager doesn't want to delete/update a product and just see the inventory | Success                                                                                                                                                                                |

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| <b>Use Case Name</b>                                                      | Change store's buying policy                                                                                                                                                                                                                                                                                                                                                                                                 |               |
| <b>Requirement Number</b>                                                 | 4.2,5                                                                                                                                                                                                                                                                                                                                                                                                                        |               |
| <b>Actors</b>                                                             | Owner,Store Manager                                                                                                                                                                                                                                                                                                                                                                                                          |               |
| <b>Parameters</b>                                                         | <i>Store, discount_policy</i>                                                                                                                                                                                                                                                                                                                                                                                                |               |
| <b>Preconditions</b>                                                      | <ol style="list-style-type: none"> <li>1. The owner is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                                                                                                                                                                                           |               |
| <b>Actions</b>                                                            | <ol style="list-style-type: none"> <li>1. The Owner requests the system to change store buying policy</li> <li>2. The System verifies the owner is the store owner</li> <li>3. The owner enters his new buying policy</li> <li>4. The system verifies that the new policy isn't in conflict with the founder's Consistency rules.</li> <li>5. If the policy is valid the system updates the store's buying policy</li> </ol> |               |
| <b>Result</b>                                                             | The system updates the store policy and notifies the owner                                                                                                                                                                                                                                                                                                                                                                   |               |
| <b>Data</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Result</b> |
| The Owner is not really the owner of the store                            |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fail          |
| The new buying policy is in conflict with the founder's consistency rules |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fail          |
| The Owner has the right permissions and the new policy is valid           |                                                                                                                                                                                                                                                                                                                                                                                                                              | Success       |

|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                                      | Change store's discount policy                                                                                                                                                                                                                                                                                                                                                                                                     |               |
| <b>Requirement Number</b>                                                 | 4.2,5                                                                                                                                                                                                                                                                                                                                                                                                                              |               |
| <b>Actors</b>                                                             | Owner,Store Manager                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| <b>Parameters</b>                                                         | <i>Store, discount_policy</i>                                                                                                                                                                                                                                                                                                                                                                                                      |               |
| <b>Preconditions</b>                                                      | <ol style="list-style-type: none"> <li>1. The owner is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                                                                                                                                                                                                 |               |
| <b>Actions</b>                                                            | <ol style="list-style-type: none"> <li>1. The Owner requests the system to change store discount policy</li> <li>2. The System verifies the owner is the store owner</li> <li>3. The owner enters his new discount policy</li> <li>4. The system verifies that the new policy isn't in conflict with the founder's Consistency rules.</li> <li>5. If the policy is valid the system updates the store's discount policy</li> </ol> |               |
| <b>Result</b>                                                             | The system updates the store policy and notifies the owner                                                                                                                                                                                                                                                                                                                                                                         |               |
| <b>Data</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Result</b> |
| The Owner is not really the owner of the store                            |                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fail          |
| The new buying policy is in conflict with the founder's consistency rules |                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fail          |
| The Owner has the right permissions and the new policy is valid           |                                                                                                                                                                                                                                                                                                                                                                                                                                    | Success       |

|                                                                            |                                                                                                                                                                                                                                                                                                            |               |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                                       | Set Consistency rules for a store                                                                                                                                                                                                                                                                          |               |
| <b>Requirement Number</b>                                                  | 4.3,5                                                                                                                                                                                                                                                                                                      |               |
| <b>Actors</b>                                                              | Founder,Store Manager                                                                                                                                                                                                                                                                                      |               |
| <b>Parameters</b>                                                          | <i>Store, rules</i>                                                                                                                                                                                                                                                                                        |               |
| <b>Preconditions</b>                                                       | <ol style="list-style-type: none"> <li>1. The founder is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                                                                       |               |
| <b>Actions</b>                                                             | <ol style="list-style-type: none"> <li>1. The Founder requests the system to set the store's consistency rules</li> <li>2. The System verifies the user is the founder of the store</li> <li>3. The Founder enters his desired rules</li> <li>4. The system updates the store consistency rules</li> </ol> |               |
| <b>Result</b>                                                              | The system sets the consistency rules and notifies the Founder                                                                                                                                                                                                                                             |               |
| <b>Data</b>                                                                |                                                                                                                                                                                                                                                                                                            | <b>Result</b> |
| The Founder is not really the founder of the Store                         |                                                                                                                                                                                                                                                                                                            | Fail          |
| The founder is the founder of the store and he enters his desired policies |                                                                                                                                                                                                                                                                                                            | Success       |

|                                                       |                                                                                                                                                                                                                                                                |               |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                  | Appoint store owner                                                                                                                                                                                                                                            |               |
| <b>Requirement Number</b>                             | 4.4,5                                                                                                                                                                                                                                                          |               |
| <b>Actors</b>                                         | Owner,Store Manager                                                                                                                                                                                                                                            |               |
| <b>Parameters</b>                                     | <i>new_owner,Store</i>                                                                                                                                                                                                                                         |               |
| <b>Preconditions</b>                                  | <ol style="list-style-type: none"> <li>1. The Owner is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                             |               |
| <b>Actions</b>                                        | <ol style="list-style-type: none"> <li>1. The Owner requests the system to add a store owner to his Store</li> <li>2. The System verifies the Owner is the Store owner</li> <li>3. The system verifies the new_owner is not already the store owner</li> </ol> |               |
| <b>Result</b>                                         | The system sets the new store manager and updates his permission and notifies the Owner.                                                                                                                                                                       |               |
| <b>Data</b>                                           |                                                                                                                                                                                                                                                                | <b>Result</b> |
| The Owner is not the Store owner                      |                                                                                                                                                                                                                                                                | Fail          |
| The new_owner already owns the Store                  |                                                                                                                                                                                                                                                                | Fail          |
| The owner is the store owner and the new_owner is not |                                                                                                                                                                                                                                                                | Success       |

|                                                                 |                                                                                                                                                                                                                                                                   |               |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                            | Remove Store owner                                                                                                                                                                                                                                                |               |
| <b>Requirement Number</b>                                       | 4.5,5                                                                                                                                                                                                                                                             |               |
| <b>Actors</b>                                                   | Owner,Store Manager                                                                                                                                                                                                                                               |               |
| <b>Parameters</b>                                               | <i>Store, owner_to_remove</i>                                                                                                                                                                                                                                     |               |
| <b>Preconditions</b>                                            | <ol style="list-style-type: none"> <li>1. The Owner is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                                |               |
| <b>Actions</b>                                                  | <ol style="list-style-type: none"> <li>1. The Owner requests the system to remove a store owner from his Store</li> <li>2. The system verifies the Owner is the Store owner</li> <li>3. The System verifies owner_to_remove was appointed by the Owner</li> </ol> |               |
| <b>Result</b>                                                   | The system removes the permissions of owner_to_remove and all other members that were appointed by owner_to_remove and notifies the Owner                                                                                                                         |               |
| <b>Data</b>                                                     |                                                                                                                                                                                                                                                                   | <b>Result</b> |
| The owner is not the Store owner                                |                                                                                                                                                                                                                                                                   | Fail          |
| The owner_to_remove wasn't appointed by Owner                   |                                                                                                                                                                                                                                                                   | Fail          |
| The Owner is the owner and owner_to_remove was appointed by him |                                                                                                                                                                                                                                                                   | Success       |

|                                                      |                                                                                                                                                                                                                                                                         |               |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                 | Appoint store manager                                                                                                                                                                                                                                                   |               |
| <b>Requirement Number</b>                            | 4.6,5                                                                                                                                                                                                                                                                   |               |
| <b>Actors</b>                                        | Owner,Store manager                                                                                                                                                                                                                                                     |               |
| <b>Parameters</b>                                    | <i>new_manager, Store</i>                                                                                                                                                                                                                                               |               |
| <b>Preconditions</b>                                 | <ol style="list-style-type: none"> <li>1. The Owner is logged in</li> <li>2. Store manager must have proper permission from store owner</li> </ol>                                                                                                                      |               |
| <b>Actions</b>                                       | <ol style="list-style-type: none"> <li>1. The Owner requests the system to add a store manager to his Store</li> <li>2. The System verifies the Owner is the Store owner</li> <li>3. The system verifies new_manager is not the current Store owner/manager.</li> </ol> |               |
| <b>Result</b>                                        | The system updates new_manager permissions and notifies the Owner                                                                                                                                                                                                       |               |
| <b>Data</b>                                          |                                                                                                                                                                                                                                                                         | <b>Result</b> |
| The owner is not the Store owner                     |                                                                                                                                                                                                                                                                         | Fail          |
| The new_manager is already the Store's manager/owner |                                                                                                                                                                                                                                                                         | Fail          |
| The new_manager is not the Store's manager/owner     |                                                                                                                                                                                                                                                                         | Success       |

|                                        |                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use Case Name</b>                   | Change store manager permissions                                                                                                                          |
| <b>Requirement Number</b>              | 4.7,5                                                                                                                                                     |
| <b>Actors</b>                          | Owner,Store manager                                                                                                                                       |
| <b>Parameters</b>                      | <i>manager, new_permissions,Store</i>                                                                                                                     |
| <b>Preconditions</b>                   | 1.The Owner is logged in<br>2. Store manager must have proper permission from store owner                                                                 |
| <b>Actions</b>                         | 1. The Owner requests the system to manager permissions<br>2. The System verifies the Owner is the Store owner<br>3. The Owner enters the new_permissions |
| <b>Result</b>                          | The system updates the manager permissions and notifies the Owner                                                                                         |
| <b>Data</b>                            | <b>Result</b>                                                                                                                                             |
| The owner is not the Store owner       | Fail                                                                                                                                                      |
| the manager is not the Store's manager | Fail                                                                                                                                                      |
| The owner chooses correct permissions  | Success                                                                                                                                                   |

|                                                      |                                                                                                                                                                                                                               |
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| <b>Use Case Name</b>                                 | Remove store manager                                                                                                                                                                                                          |
| <b>Requirement Number</b>                            | 4.8,5                                                                                                                                                                                                                         |
| <b>Actors</b>                                        | Owner,Store Manager                                                                                                                                                                                                           |
| <b>Parameters</b>                                    | <i>manager_to_remove,Store</i>                                                                                                                                                                                                |
| <b>Preconditions</b>                                 | 1. The Owner is logged in<br>2. Store manager must have proper permission from store owner                                                                                                                                    |
| <b>Actions</b>                                       | 1. The Owner requests the system to remove manager_to_remove from his position as Store manager<br>2. The System verifies the Owner is the Store owner<br>3. The system verifies manager_to_remove was appointed by the Owner |
| <b>Result</b>                                        | The system removes manager_to_remove permissions as store manager and notifies the Owner                                                                                                                                      |
| <b>Data</b>                                          | <b>Result</b>                                                                                                                                                                                                                 |
| The owner is not the Store owner                     | Fail                                                                                                                                                                                                                          |
| The manager_to_remove was not appointed by the Owner | Fail                                                                                                                                                                                                                          |
| The manager_to_remove was appointed by the Owner     | Success                                                                                                                                                                                                                       |

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Use Case Name</b>                                       | Close a store                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Requirement Number</b>                                  | 4.9, 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Actors</b>                                              | Store Founder, Store owner, Store manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Parameters</b>                                          | Store ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Preconditions</b>                                       | <ol style="list-style-type: none"> <li>1. Store exists</li> <li>2. User is the store's founder</li> <li>3. Store manager must have proper permission from store owner</li> </ol>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Actions</b>                                             | <ol style="list-style-type: none"> <li>1. The store founder asks the system to close a store</li> <li>2. The store founder inputs a store that he founded</li> <li>3. The system verifies that the store exists and is not in "closed" state already</li> <li>4. The system verifies the relevant user permissions</li> <li>5. The system changes the store status to "closed"</li> <li>6. The system sends the store owner and manager a "Store closing message"</li> <li>7. The system removes the store's products from the product search view</li> </ol> |
| <b>Result</b>                                              | <ol style="list-style-type: none"> <li>1. Store's status is changed to "closed"</li> <li>2. Store is only visible to admins and store owners</li> <li>3. Store's product are not visible on search</li> <li>4. "Store closing message" is sent to store's owner and manager</li> </ol>                                                                                                                                                                                                                                                                        |
| <b>Data</b>                                                | <b>Result</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| User enters a store ID that doesn't exist                  | Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| User enters a store ID of a store he is not the founder of | Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| User enters a store ID of a store he founded               | Success                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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| <b>Use Case Name</b>                                                  | Reopen a closed store                                                                                                                                                                                                                                                                                                                                           |               |
| <b>Requirement Number</b>                                             | 4.10, 5                                                                                                                                                                                                                                                                                                                                                         |               |
| <b>Actors</b>                                                         | Store founder, Store owner, Store manager                                                                                                                                                                                                                                                                                                                       |               |
| <b>Parameters</b>                                                     | Store ID                                                                                                                                                                                                                                                                                                                                                        |               |
| <b>Preconditions</b>                                                  | 1. Store exists and in “closed” status<br>2. User is the store’s founder<br>3. Store manager must have proper permission from store owner                                                                                                                                                                                                                       |               |
| <b>Actions</b>                                                        | 1. Store founder chooses to reopen a store<br>2. Store founder inputs a store ID<br>3. The system verifies that the store exists and in not in “open” state already<br>4. The system verifies the relevant user permissions<br>5. The system changes store’s status to “open”<br>6. The system sends a “Store reopening message” to the store owner and manager |               |
| <b>Result</b>                                                         | 1. Store’s status is changed to “open”<br>2. Store’s manager and owner receive a “Store reopening message”                                                                                                                                                                                                                                                      |               |
| <b>Data</b>                                                           |                                                                                                                                                                                                                                                                                                                                                                 | <b>Result</b> |
| User enters a store ID that doesn’t exist                             |                                                                                                                                                                                                                                                                                                                                                                 | Fail          |
| User enters a store ID that is not closed                             |                                                                                                                                                                                                                                                                                                                                                                 | Fail          |
| User enters a store ID of a store he founded that is currently closed |                                                                                                                                                                                                                                                                                                                                                                 | Success       |
| User enters a character that is not a number                          |                                                                                                                                                                                                                                                                                                                                                                 | Fail          |

|                                                           |                                                                                                                                                                                                                                                                                                                                       |               |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                      | Get store employees information                                                                                                                                                                                                                                                                                                       |               |
| <b>Requirement Number</b>                                 | 4.11, 5                                                                                                                                                                                                                                                                                                                               |               |
| <b>Actors</b>                                             | Store founder, Member, Store manager                                                                                                                                                                                                                                                                                                  |               |
| <b>Parameters</b>                                         | Member ID                                                                                                                                                                                                                                                                                                                             |               |
| <b>Preconditions</b>                                      | 1. Member must exist<br>2. Member ID must be of a store employee<br>3. Store manager must have proper permission from store owner                                                                                                                                                                                                     |               |
| <b>Actions</b>                                            | 1. Store founder asks the system to get information about store employees<br>2. Store founder chooses the employee he wants to get information on<br>3. The system verifies the employee exists in the store<br>4. The system verifies the relevant user permissions<br>5. The system provides the store founder with the information |               |
| <b>Result</b>                                             | 1. Store founder is shown the employee’s information                                                                                                                                                                                                                                                                                  |               |
| <b>Data</b>                                               |                                                                                                                                                                                                                                                                                                                                       | <b>Result</b> |
| User enters a member ID of a member that doesn’t exist    |                                                                                                                                                                                                                                                                                                                                       | Fail          |
| User enters a negative number                             |                                                                                                                                                                                                                                                                                                                                       | Fail          |
| User enters a member that is not an employee in the store |                                                                                                                                                                                                                                                                                                                                       | Fail          |
| User enters a member ID of a store employee               |                                                                                                                                                                                                                                                                                                                                       | Success       |

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                      |               |
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| <b>Use Case Name</b>                                            | Get store managers permission                                                                                                                                                                                                                                                                                                                                                        |               |
| <b>Requirement Number</b>                                       | 4.11, 5                                                                                                                                                                                                                                                                                                                                                                              |               |
| <b>Actors</b>                                                   | Store owner, Store manager                                                                                                                                                                                                                                                                                                                                                           |               |
| <b>Parameters</b>                                               | Member ID                                                                                                                                                                                                                                                                                                                                                                            |               |
| <b>Preconditions</b>                                            | 1. Store manager must exist<br>2. Member ID must be of a store manager of the store the owner owns<br>3. Store manager must have proper permission from store owner                                                                                                                                                                                                                  |               |
| <b>Actions</b>                                                  | 1. Store owner asks the system to get the store manager's permissions list<br>2. Store owner chooses the store manager he wants to get information on<br>3. The system verifies that the manager the owner asked for is the manager of the store he owns<br>4. The system verifies the relevant user permissions<br>5. The system provides the store owner with the permissions list |               |
| <b>Result</b>                                                   | 1. Store owner is shown the store manager's permission's list                                                                                                                                                                                                                                                                                                                        |               |
| <b>Data</b>                                                     |                                                                                                                                                                                                                                                                                                                                                                                      | <b>Result</b> |
| User enters a member ID of an employee that is not a manager    |                                                                                                                                                                                                                                                                                                                                                                                      | Fail          |
| User enters a member ID of a member that is not an employee     |                                                                                                                                                                                                                                                                                                                                                                                      | Fail          |
| User enters a member ID that doesn't exist                      |                                                                                                                                                                                                                                                                                                                                                                                      | Fail          |
| User enters a member ID of a store manager of a different store |                                                                                                                                                                                                                                                                                                                                                                                      | Fail          |
| User enters a member ID of a store manager of the store he owns |                                                                                                                                                                                                                                                                                                                                                                                      | Success       |

|                                                                     |                                                                                                                                                                                |               |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                                | Receive and read member's questions                                                                                                                                            |               |
| <b>Requirement Number</b>                                           | 4.12, 5                                                                                                                                                                        |               |
| <b>Actors</b>                                                       | Store owner, Store manager                                                                                                                                                     |               |
| <b>Parameters</b>                                                   | None                                                                                                                                                                           |               |
| <b>Preconditions</b>                                                | Store manager must have proper permission from store owner                                                                                                                     |               |
| <b>Actions</b>                                                      | 1. The store owner chooses to read member's questions<br>2. The system verifies the relevant user permissions<br>3. The system shows the member's questions to the store owner |               |
| <b>Result</b>                                                       | 1. Store owner is shown the member's questions list                                                                                                                            |               |
| <b>Data</b>                                                         |                                                                                                                                                                                | <b>Result</b> |
| User (Not a store owner) chooses the read member's questions option |                                                                                                                                                                                | Fail          |
| User (Store owner) chooses the read member's questions option       |                                                                                                                                                                                | Success       |

|                                          |                                                                                                                                                                                                                                                                                                       |               |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                     | Answer member's questions                                                                                                                                                                                                                                                                             |               |
| <b>Requirement Number</b>                | 4.12, 5                                                                                                                                                                                                                                                                                               |               |
| <b>Actors</b>                            | Store owner, Store manager                                                                                                                                                                                                                                                                            |               |
| <b>Parameters</b>                        | Answer text                                                                                                                                                                                                                                                                                           |               |
| <b>Preconditions</b>                     | Store manager must have proper permission from store owner                                                                                                                                                                                                                                            |               |
| <b>Actions</b>                           | 1. Store owner chooses a member's questions<br>2. Store owner chooses to answer the question<br>3. Store owner inputs the answer text<br>4. The system verifies the text is not empty<br>5. The system verifies relevant user permissions<br>6. The system adds the question to the member's question |               |
| <b>Result</b>                            | 1. The answer is added to the member's question                                                                                                                                                                                                                                                       |               |
| <b>Data</b>                              |                                                                                                                                                                                                                                                                                                       | <b>Result</b> |
| User enters an empty string as answer    |                                                                                                                                                                                                                                                                                                       | Fail          |
| User enters a non-empty string as answer |                                                                                                                                                                                                                                                                                                       | Success       |

|                                                  |                                                                                                                                                                                                                                                                                  |               |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                             | Get store's purchase history                                                                                                                                                                                                                                                     |               |
| <b>Requirement Number</b>                        | 4.13, 5                                                                                                                                                                                                                                                                          |               |
| <b>Actors</b>                                    | Store owner, Store manager                                                                                                                                                                                                                                                       |               |
| <b>Parameters</b>                                | Store ID                                                                                                                                                                                                                                                                         |               |
| <b>Preconditions</b>                             | 1. Store ID must be of a store that is owned by the store owner<br>2. Store manager must have proper permission from store owner                                                                                                                                                 |               |
| <b>Actions</b>                                   | 1. The store owner asks the system to get store purchase history<br>2. The store owner inputs the store ID<br>3. The system verifies that the store exists<br>4. The system verifies the relevant user permissions<br>5. The system provides the purchase history for that store |               |
| <b>Result</b>                                    | Store's purchase history is provided to the store owner                                                                                                                                                                                                                          |               |
| <b>Data</b>                                      |                                                                                                                                                                                                                                                                                  | <b>Result</b> |
| User enters a store ID that doesn't exist        |                                                                                                                                                                                                                                                                                  | Fail          |
| User enters a store ID of a store he doesn't own |                                                                                                                                                                                                                                                                                  | Fail          |
| User enters a store ID of the store he owns      |                                                                                                                                                                                                                                                                                  | Success       |

|                                                          |                                                                                                                                                                                                                                                                                                   |               |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                     | Closing store permanently                                                                                                                                                                                                                                                                         |               |
| <b>Requirement Number</b>                                | 6.1                                                                                                                                                                                                                                                                                               |               |
| <b>Actors</b>                                            | Admin, Store Owner, Store Manager                                                                                                                                                                                                                                                                 |               |
| <b>Parameters</b>                                        | Store ID                                                                                                                                                                                                                                                                                          |               |
| <b>Preconditions</b>                                     | 1. Store exists                                                                                                                                                                                                                                                                                   |               |
| <b>Actions</b>                                           | 1. The admin inputs a store to close<br>2. The system verifies that the store exists<br>3. The system verifies the relevant user permissions<br>4. The system sends "Store closing message" to store owners and managers<br>5. The system cancels the membership of the store owners and managers |               |
| <b>Result</b>                                            | The store is no longer available to users and store managers and owners are no longer members                                                                                                                                                                                                     |               |
| <b>Data</b>                                              |                                                                                                                                                                                                                                                                                                   | <b>Result</b> |
| User enters a store ID of a store that doesn't exist     |                                                                                                                                                                                                                                                                                                   | Fail          |
| User enters a store ID of a store that is already closed |                                                                                                                                                                                                                                                                                                   | Fail          |
| User enters a store ID of an open store                  |                                                                                                                                                                                                                                                                                                   | Success       |

|                                                        |                                                                                                                                                                                                                                |               |
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| <b>Use Case Name</b>                                   | Canceling membership                                                                                                                                                                                                           |               |
| <b>Requirement Number</b>                              | 6.2                                                                                                                                                                                                                            |               |
| <b>Actors</b>                                          | Admin, Member                                                                                                                                                                                                                  |               |
| <b>Parameters</b>                                      | Member ID                                                                                                                                                                                                                      |               |
| <b>Preconditions</b>                                   | 1. Member exists and registered                                                                                                                                                                                                |               |
| <b>Actions</b>                                         | 1. The admin inputs a member ID he wishes to remove<br>2. The system verifies that the member exists<br>3. The system verifies the relevant user permissions<br>4. The system cancels all permissions and roles of the member. |               |
| <b>Result</b>                                          | The membership is canceled                                                                                                                                                                                                     |               |
| <b>Data</b>                                            |                                                                                                                                                                                                                                | <b>Result</b> |
| User enters a member ID of a member that doesn't exist |                                                                                                                                                                                                                                | Fail          |
| User enters a character that is not a number           |                                                                                                                                                                                                                                | Fail          |
| User enters an empty string                            |                                                                                                                                                                                                                                | Fail          |
| User enters a member ID of an existing member          |                                                                                                                                                                                                                                | Success       |

|                                           |                                                                                                                                                                                                                                                            |               |
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| <b>Use Case Name</b>                      | Read and comment to complaints                                                                                                                                                                                                                             |               |
| <b>Requirement Number</b>                 | 6.3                                                                                                                                                                                                                                                        |               |
| <b>Actors</b>                             | Admin, Member                                                                                                                                                                                                                                              |               |
| <b>Parameters</b>                         | Comment text                                                                                                                                                                                                                                               |               |
| <b>Preconditions</b>                      | None                                                                                                                                                                                                                                                       |               |
| <b>Actions</b>                            | 1. The admin get information and reads the members complaints<br>2. The admin chooses a complaint<br>3. The admin comments on the member complaint<br>4. The system verifies the text is not empty<br>5. The system verifies the relevant user permissions |               |
| <b>Result</b>                             | A comment is added to the member's complaint                                                                                                                                                                                                               |               |
| <b>Data</b>                               |                                                                                                                                                                                                                                                            | <b>Result</b> |
| User enters an empty string as comment    |                                                                                                                                                                                                                                                            | Fail          |
| User enters a non-empty string as comment |                                                                                                                                                                                                                                                            | Success       |

|                                           |                                                                                                                                                                                                                                                                                                      |               |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                      | Send messages to buyers and sellers                                                                                                                                                                                                                                                                  |               |
| <b>Requirement Number</b>                 | 6.3                                                                                                                                                                                                                                                                                                  |               |
| <b>Actors</b>                             | Admin, Buyer/Seller                                                                                                                                                                                                                                                                                  |               |
| <b>Parameters</b>                         | Message text                                                                                                                                                                                                                                                                                         |               |
| <b>Preconditions</b>                      | None                                                                                                                                                                                                                                                                                                 |               |
| <b>Actions</b>                            | 1. The admin chooses a buyer or seller<br>2. The admin chooses to send the member a message<br>3. The admin inputs the message text<br>4. The system verifies the text is not empty<br>5. The system verifies the relevant user permissions<br>6. The system sends to message to the selected member |               |
| <b>Result</b>                             | A message is sent to the selected member                                                                                                                                                                                                                                                             |               |
| <b>Data</b>                               |                                                                                                                                                                                                                                                                                                      | <b>Result</b> |
| User enters an empty string as message    |                                                                                                                                                                                                                                                                                                      | Fail          |
| User enters a non-empty string as message |                                                                                                                                                                                                                                                                                                      | Success       |

|                                            |                                                                                                                                                                          |               |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                       | Receive messages from buyers and sellers                                                                                                                                 |               |
| <b>Requirement Number</b>                  | 6.3                                                                                                                                                                      |               |
| <b>Actors</b>                              | Admin, Buyer/Seller                                                                                                                                                      |               |
| <b>Parameters</b>                          | None                                                                                                                                                                     |               |
| <b>Preconditions</b>                       | None                                                                                                                                                                     |               |
| <b>Actions</b>                             | 1. The system gets a message to send from a buyer or seller<br>2. The system notifies the admin that a message is waiting<br>3. The admin opens the message and reads it |               |
| <b>Result</b>                              | A message is received and read by the admin                                                                                                                              |               |
| <b>Data</b>                                |                                                                                                                                                                          | <b>Result</b> |
| No internet connection                     |                                                                                                                                                                          | Fail          |
| A buyer sends a non-empty message to admin |                                                                                                                                                                          | Success       |

|                                               |                                                                                                                                                                                                                                             |               |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                          | Get purchase history of member                                                                                                                                                                                                              |               |
| <b>Requirement Number</b>                     | 6.4                                                                                                                                                                                                                                         |               |
| <b>Actors</b>                                 | Admin, Member                                                                                                                                                                                                                               |               |
| <b>Parameters</b>                             | Member ID                                                                                                                                                                                                                                   |               |
| <b>Preconditions</b>                          | 1. Member exists                                                                                                                                                                                                                            |               |
| <b>Actions</b>                                | 1. The admin chooses a member he wants to know the purchase history of<br>2. The system verifies the member exists<br>3. The system verifies the relevant user permissions<br>4. The system sends the admin the saved history of the member |               |
| <b>Result</b>                                 | Member's purchase history is provided to the admin                                                                                                                                                                                          |               |
| <b>Data</b>                                   |                                                                                                                                                                                                                                             | <b>Result</b> |
| User enters a member ID that doesn't exist    |                                                                                                                                                                                                                                             | Fail          |
| User enters a character that is not a number  |                                                                                                                                                                                                                                             | Fail          |
| User enters a member ID of an existing member |                                                                                                                                                                                                                                             | Success       |

|                                              |                                                                                                                                                                                                                                          |               |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                         | Get purchase history of a store                                                                                                                                                                                                          |               |
| <b>Requirement Number</b>                    | 6.4                                                                                                                                                                                                                                      |               |
| <b>Actors</b>                                | Admin                                                                                                                                                                                                                                    |               |
| <b>Parameters</b>                            | Store ID                                                                                                                                                                                                                                 |               |
| <b>Preconditions</b>                         | 1. Store exists                                                                                                                                                                                                                          |               |
| <b>Actions</b>                               | 1. The admin chooses a store he wants to know the purchase history of<br>2. The system verifies the store exists<br>3. The system verifies the relevant user permissions<br>4. The system sends the admin the saved history of the store |               |
| <b>Result</b>                                | Store's purchase history is provided to the admin                                                                                                                                                                                        |               |
| <b>Data</b>                                  |                                                                                                                                                                                                                                          | <b>Result</b> |
| User enters a store ID that doesn't exist    |                                                                                                                                                                                                                                          | Fail          |
| User enters a character that is not a number |                                                                                                                                                                                                                                          | Fail          |
| User enters a store ID of an existing store  |                                                                                                                                                                                                                                          | Success       |

|                                                     |                                                                                                                                                                                                                                                             |               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Use Case Name</b>                                | Get system information and statistics                                                                                                                                                                                                                       |               |
| <b>Requirement Number</b>                           | 6.5                                                                                                                                                                                                                                                         |               |
| <b>Actors</b>                                       | Admin                                                                                                                                                                                                                                                       |               |
| <b>Parameters</b>                                   | None                                                                                                                                                                                                                                                        |               |
| <b>Preconditions</b>                                | None                                                                                                                                                                                                                                                        |               |
| <b>Actions</b>                                      | 1. The admin asks the system to get the system information<br>2. The system verifies the relevant user permissions<br>3. The admin chooses what kind of information / statistics he is interested in<br>4. The system provides the information to the admin |               |
| <b>Result</b>                                       | Admin is presented with the information he requested                                                                                                                                                                                                        |               |
| <b>Data</b>                                         |                                                                                                                                                                                                                                                             | <b>Result</b> |
| User (not an admin) tries to get system information |                                                                                                                                                                                                                                                             | Fail          |
| User (admin) tries to get system information        |                                                                                                                                                                                                                                                             | Success       |