**Use-Cases - 2020**

Content

[1. System 2](#_heading=h.gjdgxs)

[#1.1 System initiation 3](#_heading=h.1fob9te)

[2.Guest User 4](#_heading=h.3znysh7)

[#2.2 Registration to the system 5](#_heading=h.tyjcwt)

[#2.3 User Login to the system 6](#_heading=h.1t3h5sf)

[#2.4 View information of store and the products of the store 7](#_heading=h.2s8eyo1)

[#2.5.a Browse for products by different options 8](#_heading=h.3rdcrjn)

[#2.5.b Filter results according to characteristics 10](#_heading=h.lnxbz9)

[#2.6 Saving products in User's basket for specific store 12](#_heading=h.1ksv4uv)

[#2.7 View and edit shopping cart 13](#_heading=h.2jxsxqh)

[#2.8.a Purchase products according to the types of purchase 15](#_heading=h.3j2qqm3)

[#2.8.b Purchase products according to discount types 17](#_heading=h.4i7ojhp)

[3.Registered User 19](#_heading=h.2xcytpi)

[#3.1 Logout 19](#_heading=h.3whwml4)

[#3.2 Open store 20](#_heading=h.qsh70q)

[#3.7 Purchase history 21](#_heading=h.1pxezwc)

[4.Store Owner 22](#_heading=h.49x2ik5)

[#4.1 StorageManaging 22](#_heading=h.147n2zr)

#4.2 Applying and editing store policies and discounts 22

[#4.3 Add new StoreOwner. 22](#_heading=h.23ckvvd)

[#4.5 Add new StoreManager. 23](#_heading=h.32hioqz)

[#4.6 Change StoreManager permissions. 24](#_heading=h.41mghml)

[#4.7 Delete StoreManager 25](#_heading=h.vx1227)

[#4.10 Watch Store purchase history 26](#_heading=h.1v1yuxt)

[5.Store Manager 26](#_heading=h.4f1mdlm)

[#5.1 Manage Store 26](#_heading=h.19c6y18)

[6.Admin 27](#_heading=h.3tbugp1)

[#6.4 View Purchase History 27](#_heading=h.nmf14n)

#6.5 View system data 28

[#7 Payment Collection 29](#_heading=h.1mrcu09)

[#8 Package Shipment 30](#_heading=h.2lwamvv)

#10 Real time notifications 32

# 1.System

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| Use case name | #1.1 System initiation |
| Actors | SystemInitializer |
| Pre-conditions | Admin details. |
| Post-conditions | 1. Admin exists with admin username and password  2. 1 UserManager was created  3. 1 Admin was created  4. 1 Purchase was created  5. There is communications with the Shipment system  6. There is communications with the Payment system |
| Input Parameters | 1. Admin details. |
| Main success scenario | 1. Creates new UsersManagerInterface object.  2. Creates new StoresManagerInterface object.  3. Creates new PurchaseManager object.  4. Creates Publisher object.  5. Init instances according to “init.txt” file. |
| Alternatives/Extensions |  |
| Trigger | SystemInitializer get the order to open the trade system |

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| Action | Data | Expected Result |
| #1.1 - (AT1) System initiation (external systems communication) | Insert Valid communication details with Payment and Shipment external systems | Success: Trading system activated.  Allows transactions including payment and shipping |
|  | Insert invalid communication details with Payment and Shipment external systems | Failure: receive an error message that the system could not be open due to communication with the external systems. |

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| Action | Data | Expected Result |
| #1.1 - (AT2) System initiation (Creates Admin user) | Valid User details | Success: The User is created and then becomes Admin |
|  | Invalid User details | Failure: No User and Admin are created |
|  | Missing User details | Failure: No User and Admin are created |

# 2.Guest User

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| Use case name | #2.2 Registration to the system |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1 |
| Post-conditions | 1. The User successfully registered to the system |
| Input Parameters | Registration details |
| Main success scenario | 1.**User:** Enter username and password  2. **TradeSystem:** If the information provided by the User is correct and complete, the system registers the user. |
| Alternatives/Extensions | ~2. Registration failed - Error message presented. |
| Trigger | User requests to register to the system. |

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| Action | Data | Expected Result |
| #2.2 - (AT1) Registration to the system | Valid registration details that do not yet exist in the system. | Success: the registration successfully completed. The user is registered with his provided details. |
|  | Missing registration details. | Failure: The system registration was unsuccessful, no new user was added to the system |
|  | Existing user details. | Failure: The system registration was unsuccessful, no new user was added to the system |
|  | Invalid user details | Failure: The system registration was unsuccessful, no new user was added to the system |

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| Use case name | #2.3 User Login to the system |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1 |
| Post-conditions | 1. The user is no longer in guest mode |
| Input Parameters | Login details. |
| Main success scenario | 1.**User:** Requests to login to the system.  2.**User:** Enter username and password.  2.**TradeSystem:** If the details provided by the user are complete, proper and existing in the system, the user is logged in |
| Alternatives/Extensions | ~2. Login failed |
| Trigger | GuestUser requests to login to the system |

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| Action | Data | Expected Result |
| #2.3 - (AT1) User Login to the system | Valid login details that exist in the system. | Success: The system connects the user.  The user is no longer in guest mode. |
|  | Missing registration details. | Failure: User should provide all login details |
|  | User details that does not exist in the system | Failure: The login was unsuccessful, The user stays in guest mode. |
|  | Invalid user details. | Failure: The login was unsuccessful, The user stays in guest mode. |

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| --- | --- |
| Use case name | #2.4 View information of store and the products of the store |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1 |
| Post-conditions | None. |
| Input Parameters | Requested store details |
| Main success scenario | 1.**User**: provides the requested store details.  3. **TradeSystem**: If the requested store exists in the system  3.a **TradeSystem:** Returns information about the store and its products. |
| Alternatives/Extensions | ~3. The system will return an error / message about incorrect or missing existing store information. |
| Trigger | A User wants to see details about a store and its products. |

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| Action | Data | Expected Result |
| #2.4 (AT1) - Search a store and view its details and products | Details of a store that exists in the system. | Success: The system returns store details and store product details. |
|  | Missing store details. | Failure: User should provide all store details. |
|  | User details that do not exist in the system. | Failure: The store search failed, does not return results. |
|  | Invalid user details. | Failure: Returns error object |

\*System sequence diagram of 2.5 UC attached separately.

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| Use case name | #2.5.a Browse for products by different options |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1 |
| Post-conditions | All the products that are presented are compatible with the chosen option. |
| Input Parameters | Search options, search text |
| Main success scenario | 1. **User:** Selects what to look for in the trading system and delivers the keywords according to the option.  2.1 **User**: If User selects: by product name   1. **TradeSystem**: Checks if the text that was inserted is valid 2. **TradeSystem**:Returns a list of products whose name is related to the search words   2.2 **User**: if User selects by product category:   1. **TradeSystem**: Checks if the text that was inserted is valid 2. **TradeSystem**: Returns a list of products that belong to the same category the user provided.   2.3 **User**: if User selects by product keywords:   1. **TradeSystem**: Checks if the text that was inserted is valid 2. **TradeSystem**: Returns a list of products that belong to the same category the user provided. |
| Alternatives/Extensions | ~2.1.a returns an empty list  ~2.2.a returns an empty list  ~2.3.a returns an empty list |
| Trigger | User ask to browse for products related to different options. |

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| Action | Data | Expected Result |
| #2.5.a (AT1) Browse for products by product name | Product name that exists in the system, proper and legal. | Success: Products that are related with their names for the user's input name. |
|  | Empty input. | Failure: User should provide a non-empty keyword. |
|  | Keywords that do not exist in the name of any product in the system. | Failure: returns empty set of products |
| #2.5.a (AT2) Browse for products by category | Product category that exists in the system, proper and legal. | Success: Products that are related with their category for the user's input. |
|  | Empty input. | Failure: User should provide a non-empty keyword. |
|  | Keywords that do not exist in the name of any product in the system. | Failure: returns empty set of products |
| #2.5.a (AT3) Browse for products by keywords | Product category that exists in the system, proper and legal. | Success: Products that are related with their keywords for the user's input. |
|  | Keywords that do not exist in the name of any product in the system. | Failure: returns empty set of products |

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| Action | Data | Expected Result |
| #2.5.a (AT4) Browse for products by Spelled wrong keywords | Inserts words with grammatical or letter errors | Success: find products according to similar words. |
|  | Inserts incorrect, missing, or nonexistent keywords. | Failure: An error message is displayed according to the type of error (incorrect or missing details or keyword does not exist). |

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| Use case name | #2.5.b Filter results according to characteristics |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.5.a |
| Post-conditions | 1. List of products according to the user's filtering characteristics |
| Input Parameters | (2.5.a) products list, filters list |
| Main success scenario | 1. **User:** Chooses the option by which he wants to filter the results.  2.1 **User**: If User selects to filter by price range:   1. **TradeSystem**: Checks if the input that was inserted is valid 2. **TradeSystem**: Returns a list of products that are in the price range entered as input.   2.2 **User**: If User selects to filter by product rating:   1. **TradeSystem**: Checks if the text that was inserted is valid 2. **TradeSystem**: Returns a list of products that are in the rating entered as input and above.   2.3 **User**: If User selects to filter by category:   1. **TradeSystem**: Checks if the text that was inserted is valid 2. **TradeSystem**: Returns a list of products that are in the category entered as input.   .  .  .  (Could be more filters and combinations of them) |
| Alternatives/Extensions | ~2.1.a returns an empty list.  ~2.2.a returns an empty list.  ~2.3.a returns an empty list. |
| Trigger | GuestUser ask to filter results (from2.5.a) by different characteristics. |

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| Action | Data | Expected Result |
| #2.5.b (AT1) Filter results by Price Range | Price range and products list when at least some of the products in the list are within the range entered. | Success: Returns a product list that includes only products that are in range. |
|  | Price range and product list when none of the products in the list are within the range entered. | Failure: Returns an empty list. |
|  | Empty list | Failure: User should provide a non-empty list of products. |
| #2.5.b (AT2) Filter results by Rating | Rating and products list when at least some of the products have ratings like the input and above. | Success: Returns a product list that includes only products that are in the rating and above. |
|  | Rating and products list when none of the products have ratings like the input and above. | Failure: Returns an empty list. |
|  | Empty list | Failure: User should provide a non-empty list of products. |
| #2.5.b (AT3) Filter results by category | Category and products list when at least some of the products in the list are within the category. | Success: Returns a product list that includes only products that are in range. |
|  | Category and products list when none of the products are in the same category. | Failure: Returns an empty list. |
|  | Empty list | Failure: User should provide a non-empty list of products. |

\*There are also different combinations for the filters and all tests will look similar.

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| Use case name | #2.6 Saving products in User's basket for specific store |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.5 |
| Post-conditions | 1. User has a basket with saved products. |
| Input Parameters | Products list. |
| Main success scenario | 1. **User**: Choose product from products list to add to the basket  2. **TradeSystem**: returns product’s page  3. **User**: if the User choose to add the product to the basket:   1. **TradeSystem**: adds to the user’s-store basket the chosen product 2. Go back to step 1 (for more products) |
| Alternatives/Extensions | ~3. Returns products list. |
| Trigger | GuestUser choose product from the products list. |

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| Action | Data | Expected Result |
| #2.6 Saving products in User's basket for specific store | Selects and saves a product/s to a specific store's basket | Success: The product is stored in the user-store basket during the user's current visit. |
|  | Select product that currently not available and tries to add it to the basket | Failure: The basket remains unchanged. |
|  | No product is selected | Failure: User should choose at least one product. |

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| Use case name | #2.7 View and edit shopping cart |
| Actors | User |
| Pre-conditions | The current situation is according to Use-Case 2.1. |
| Post-conditions | 1. User’s cart edited according to his actions |
| Input Parameters | None. |
| Main success scenario | 1. **User**: The user wants to view the shopping cart  2. **TradeSystem**: returns the shopping cart of the user.  3 **User**: If User selects to edit the cart:   1. **TradeSystem**: returns the edit options (delete, change quantity, and more) 2. **User**: Choose products to edit, and how to edit them 3. **TradeSystem**: The system makes the changes requested by the User. |
| Alternatives/Extensions | ~3. Cart remains unchanged. |
| Trigger | User ask to edit his shopping cart |

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| Action | Data | Expected Result |
| #2.7 - (AT1) Delete product from shopping cart | Products(>=1) from the cart. | Success: The selected products are deleted from the cart and no longer appear in it. |
|  | No products selected. | Failure: User should choose at least one product. |
| #2.7 - (AT2) Change quantity product from shopping cart | Product from the cart. | Success: The quantity of the product selected in the cart was changed. |
|  | No products selected. | Failure: User should choose some product. |
|  | Products(>1) from the cart. | Failure: User should choose maximum one product. |

\*System sequence diagram of 2.8 UC attached separately.

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| Use case name | #2.8.a Purchase products according to the types of purchase |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1  2. User has a products list from Use-Case 2.5. |
| Post-conditions | 1. The store received payment from the user for the product.  2. The user received the product for which he paid. |
| Input Parameters | Products list |
| Main success scenario | 1. **User**: Asks to buy a product from the productsList  2. **User**: Choose :  2.1. If the User choose to buy a product in immediate purchase:   1. **TradeSystem**: If the user can buy the product according to the store's purchase policy: 2. **TradeSystem:** If the product is sold immediately: 3. **TradeSystem:** If the product is in stock: 4. **TradeSystem:** Asks User’s payments details and shipping address. 5. **User**: Provides payment and shipping details. 6. **TradeSystem:** Sends the payment details to the payment system. 7. **Payment:** If the user have enough money 8. **TradeSystem:** Sends the shipping details to the shipment system. 9. **Shipment**: |
| Alternatives/Extensions | ~2.1.a The buying process has stopped.  ~2.1.a.1 The buying process has stopped. |
| Trigger | User ask to buy a product in immediate purchase. |

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| Action | Data | Expected Result |
| #2.8.a (AT1) Immediate Purchase | A product that is sold in immediate purchase, is in stock and meets the store's purchase policy from which it is sold to the user.  A user who meets the store policy conditions for buying the product and has enough money. | Success: The transaction took place, the inventory in the store was updated, the money went from the buyer to the store, the product went from the store to the buyer. |
|  | A product that is sold in immediate purchase, is **not** in stock and meets the store's purchase policy from which it is sold to the user.  A user who meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped and continues as long as the product inventory in the store has not been updated. |
|  | A product that is sold in immediate purchase, is in stock and does **not** meet store purchase policy conditions.  A user who meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped. |
|  | A product that is sold in immediate purchase, is in stock and meets the store's purchase policy from which it is sold to the user.  A user who does **not** meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped. |

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| Use case name | #2.8.b Purchase products according to discount types |
| Actors | User |
| Pre-conditions | 1. The current situation is according to Use-Case 2.1  2. User has a products list from Use-Case 2.5. |
| Post-conditions | 1. The store received payment from the user for the product.  2. The user received the product for which he paid. |
| Input Parameters | Products list |
| Main success scenario | 1. **User**: Asks to buy a product from the products list  2. **User**: Choose :  2.1. If the User choose to buy a product with **visible discount**:   1. **TradeSystem**: If the user can buy the product according to the store's purchase discount policies: 2. **TradeSystem:** If the product is sold with visible discount: 3. **TradeSystem:** If the product is in stock 4. **TradeSystem:** Asks User’s payments details and shipping address. 5. **User**: Provides payment and shipping details. 6. **TradeSystem:** Sends the payment details to the payment system. 7. **TradeSystem:** Sends the shipping details to the shipment system. |
| Alternatives/Extensions | ~2.1.a The buying process has stopped.  ~2.1.a.1 The buying process has stopped. |
| Trigger | User ask to buy a product with visible discount |

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| Action | Data | Expected Result |
| #2.8.b (AT1) Visible Discount | A product that is sold at a visible discount, is in stock and meets the store's purchase policy from which it is sold to the user.  A user who meets the store policy conditions for buying the product and has enough money. | Success: The transaction took place, the inventory in the store was updated, the money went from the buyer to the store, the product went from the store to the buyer. |
|  | A product that is sold at a visible discount, is **not** in stock and meets the store's purchase policy from which it is sold to the user.  A user who meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped and continues as long as the product inventory in the store has not been updated. |
|  | A product that is sold at a visible discount, is in stock and does **not** meet store purchase policy conditions.  A user who meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped. |
|  | A product that is sold at a visible discount, is in stock and meets the store's purchase policy from which it is sold to the user.  A user who does **not** meets the store policy conditions for buying the product and has enough money. | Failure: The shopping process has stopped. |

**Differences between GuestUser and RegisteredUser.**

Use Case **2.4** performs the same for RegisteredUser.

Use Case **2.5** performs the same for RegisteredUser.

Use Case **2.6** performs differently for RegisteredUser: the Basket and the cart has been saved in his watch list for later date.

Use Case **2.7** performs the same for RegisteredUser.

Use Case **2.8** performs the same for RegisteredUser.

# 3.Registered User

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| Use case name | #3.1 Logout |
| Actors | RegisteredUser |
| Pre-conditions | Have valid registration, User state- Logged in. |
| Post-conditions | User state become GuestUser |
| Input Parameters | None. |
| Main success scenario | 1. **TradeSystem** ask: “are you sure”  If you press yes, the system logs out the **RegisteredUser**, the **RegisteredUser** becomes unlogged. |
| Alternatives/Extensions | User press cancel, the RegisteredUser stays logged in. |
| Trigger | The RegisteredUser wanted to logout. |

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| Action | Data | Expected Result |
| #3.1 AT - Logout | None | User Logged out |
|  | None |  |

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| Use case name | #3.2 Open store |
| Actors | RegisteredUser |
| Pre-conditions | 1. Begin logged in.  2. Store name doesn’t exist. |
| Post-conditions | 1. New store opens to buy the RegisteredUser.  2. Registered RegisteredUser become the main StoreOwner. |
| Input Parameters | 1. Store name. |
| Main success scenario | 1. **RegisteredUser:** enter new store name  2. **TradeSystem:** checks Store name doesn’t exist.  2.1 **TradeSystem:** askes RegisteredUser’s identifications .  2.2 **RegisteredUser:** enter the identifications.  3. New Store opens in the system  4. **RegisteredUser** becomes a StoreOwner in this store. |
| Alternatives/Extensions | 1. **RegisteredUser:** entersame StoreName that exists already  1.1 **TradeSystem:** Display Error (“Store name already exists”)  1.2 **TradeSystem** asks RegisteredUser for new store name. |
| Trigger | RegisteredUser want to open a store. |

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| Action | Data | Expected Result |
| #3.2 AT - Open Store | Valid details are inserted | New Store opens with the chosen name and unique store id |
|  | Missing name is inserted | Failure: open store process has stopped. |
|  | The user that wanted to open the store. | Failure: open store process has stopped. |

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| Use case name | #3.7 Purchase history |
| Actors | RegisteredUser |
| Pre-conditions | None. |
| Post-conditions | None. |
| Input Parameters | RegisteredUserID, specific dates of purchase history |
| Main success scenario | 1. **RegisteredUser** asks the system his purchase history.  2. **TradeSystem** displays the user's purchase history. |
| Alternatives/Extensions | 1. **RegisteredUser** purchase history is empty. |
| Trigger | RegisteredUser asks to view his own purchase history. |

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| Action | Data | Expected Result |
| #3.7 AT - Purchase history | Valid user’s purchase history | Display Purchase history |
|  | User is a Guest User | Failure: Guest User can’t watch is purchase history |

# 4.Store Owner

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| Use case name | #4.1 Inventory Managing |
| Actors | Store Owner |
| Pre-conditions | None. |
| Post-conditions | Store Storage changes. |
| Input Parameters | 1. StoreOwner |
| Main success scenario | 1. **StoreOwner** Add new product to store.  2. **StoreOwner** Delete exists product from the store.  3. **StoreOwner** Edit product details. |
| Alternatives/Extensions | 1.There are no items to delete.  2.The store is empty, no items to edit. |

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| Action | Data | Expected Result |
| #4.1 AT - Inventory Managing | Edit an exist item in store  The user is the owner of the store | Item successfully added |
|  | Wrong store id input | Failure: error message |
|  | User is not signed in | Failure: Guest User can’t watch is purchase history |

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| Use case name | #4.2 Applying and editing store policies and discounts |
| Actors | Store Owner |
| Pre-conditions | None. |
| Post-conditions | Store policies or store discount changed ,added or deleted. |
| Input Parameters | 1. Policy id 2. Discount id |
| Main success scenario | 1. **StoreOwner** added new policy  1.1 if new policy is legal  1.1.1 new policy added  2. **StoreOwner** added new discount  2.1 **Storeowner** choose between visible,composite or  Conditional  2.1.1 if Visible  2.1.1.1 Visible discount added  2.1.2 if Conditional  2.1.2.1 Conditional discount added  2.1.3 if composite  2.1.3.1 choose operator  2.1.3.1.1 composite discount added |
| Alternatives/Extensions | 1. **StoreOwner** have no permission to edit the policy that his pre-successor added 2. **StoreOwner** have no permission to edit the discount his pre-successor added |

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| Action | Data | Expected Result |
| #4.2 Applying and editing store policies and discounts | Apply valid discount | Success: new discount added |
|  | New discount contradicts existing store policy | Failure: new discount was not added |
|  | The store does not exist in the system. | Failure: Appoint store owner process stopped |
|  | The user is a Guest | Failure: Guest user Cannot see this option |

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| Use case name | #4.3 Add new Store Owner. |
| Actors | StoreOwner |
| Pre-conditions | The StoreOwner should be StoreOwner in his Store. |
| Post-conditions | An exist RegistertUser become StoreOwner. |
| Input Parameters | Store owner, RegisterdUserID of the new StoreOwner. |
| Main success scenario | 1.**StoreOwner:** enter the user’s details.  2.**RegisteredUser:** become StoreOwner. |
| Alternatives/Extensions | 1.The User is already StoreOwner. |
| Trigger | StoreOwner asks to change an RegisteredUser to StoreOwner. |

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| Use case name | #4.4 Remove StoreOwner |
| Actors | StoreOwner |
| Pre-conditions | A Store must have at least two Storeowers |
| Post-conditions | A StoreOwner being removed and and all the StoreOwner he appointed |
| Input Parameters | StoreOwner ID , StoreOwner ID to remove |
| Main success scenario | 1. **StoreOwner:** enter the user’s the StoreOwner to be removed id   1.1 **StoreOwner** removed the user . the user that was removed , the **Storeowner** also remove his storeowner was appointed buy the deleted Storeowner |
| Alternatives/Extensions | 1. **StoreOwner** try to remove other storeowner that was appointed before him. Request rejected |
| Trigger | StoreOwner wants to remove other storeowner that was appointed by him |

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| Action | Data | Expected Result |
| #4.4 Remove StoreOwner Happy | StoreOwner id that was appointed by the StoreOwner who requested the action | Success: StoreOwner was removed and all his appointed storeowners |
| Sad | The StoreOwner try to remove his pre-successor StoreOwner | Failure: No a storeowner was removed |
| bad | Non valid User details | Failure: provided details must be vaild |

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| Use case name | #4.5 Add new StoreManager. |
| Actors | StoreOwner |
| Pre-conditions | The user should be StoreOwner in his Store. |
| Post-conditions | An exist RegisteredUser become StoreManager. |
| Input Parameters | Store owner and RegisteredUserID of the new StoreManager. |
| Main success scenario | 1.**StoreOwner** enter the RegisteredUser’s details.  2.**RegisteredUser** become StoreManager. |
| Alternatives/Extensions | 1.The User is already StoreManager |
| Trigger | StoreOwner asks to change an RegisteredUser to StoreManager. |

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| Action | Data | Expected Result |
| #4.5 AT- add new store manager | An existing user in the system that is not already an owner or a manager and an existing store. | Success: The user is now a store’s owner. |
|  | The user does not exist in the system. | Failure: Appoint store manager process stopped |
|  | The store does not exist in the system. | Failure: Appoint store manager process stopped |
|  | The user is a Guest | Failure: Guest user Cannot see this option |

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| Use case name | #4.6 Change StoreManager permissions. |
| Actors | StoreOwner |
| Pre-conditions | StoreManger exists. |
| Post-conditions | StoreManager permissions changed. |
| Input Parameters | StoreManagerId, Store owner, New permissions to add, permissions to delete. |
| Main success scenario | 1. **StoreOwner** Enter StoreManagerID.  1.1 **StoreOwner** Adds permissions  1.2 **StoreOwner** Deletes permissions. |
| Alternatives/Extensions | 1. There is no StoreManager in the store.  1.1 Display Error(“No manager found”) |
| Trigger | StoreOwner asks to change the StoreManager permissions. |

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| Action | Data | Expected Result |
| #4.6 AT - Add store’s permissions to manager. | Store owner and store manager that he appointed a valid permission that is not part of the user’s manager permissions | Success: New permissions added to the StoreManager. |
|  | Store owner does not exist | Failure: Add permission to manager process is stopped |
|  | Store manager does not exist. | Failure: Add permission to manager process is stopped |
|  | The user is a Guest user | Failure: Guest user Cannot see this option |

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| Use case name | #4.7 Remove StoreManager |
| Actors | StoreOwner |
| Pre-conditions | At least 1 Store manager in the store. |
| Post-conditions | StoreManager becomes RegisteredUser. |
| Input Parameters | StoreManagerID, Store owner. |
| Main success scenario | 1. **StoreOwner** Enter StoreManagerID  1.1 **StoreOwner** deletes **RegisteredUser**. |
| Alternatives/Extensions | 1. The StoreManager is not created by this StoreOwner |
| Trigger | StoreOwner asks to delete a StoreManger from his store. |

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| Action | Data | Expected Result |
| #4.7 AT - Remove StoreManager | Store owner and Store manager that was appointed by the store owner. | Store manager is no longer one of the managers of the store . |
|  | Store owner does not exist. | Failure: Add permission to manager process is stopped. |
|  | Store manager does not exist. | Failure: Add permission to manager process is stopped |
|  | The user is a Guest user | Failure: Guest user Cannot see this option |

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| Use case name | #4.10 Watch Store purchase history |
| Actors | StoreOwner |
| Pre-conditions | None |
| Post-conditions | None |
| Input Parameters | None |
| Main success scenario | 1. **TradeSystem**: show a list of all purchase history  2. **StoreOwner**: choose to see all history or part of it. |
| Alternatives/Extensions | 1. **StoreOwner** have no purchase history.  2. **StoreOwner**: choose specific time to view  2.1 **TradeSystem** Display Error(“no purchase history”) |
| Trigger | StoreOwner asks to view the purchase history in his own store. |

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| Action | Data | Expected Result |
| #4.10 AT - Watch Store purchase history | History of specific exist date | Display the purchase history of the store on the specific date |
|  | History of specific non exists date | Failure: an error message about invalid Specific date to view. |

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# 5.Store Manager

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| Use case name | #5.1 Manage Store |
| Actors | User |
| Pre-conditions | 1. User was appointed in use-case 4.5  2. User was given permission in use-case 4.6 |
| Post-conditions | None |
| Input Parameters | None |
| Main success scenario | 1. **User** carries out management action.  2. Store is successfully updated |
| Alternatives/Extensions | ~1. **User is** not authorized to carry out management action. |
| Trigger | Appointed User attempts to update store |

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| Action | Data | Expected Result |
| #5.1 Manage Store | User attempts to carry out management action he is authorized to do | Success: Action is carried out |
|  | User attempts to carry out management action he is not authorized to do | Failure: an error message about attempting unauthorized action.. |
|  | User is not a manager | Failure: an error message about attempting unauthorized action.. |

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# 6.Admin

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| Use case name | #6.4 View Purchase History |
| Actors | Admin |
| Pre-conditions | 1. User appointed in use-case 1.1 |
| Post-conditions | 1. Purchase history is displayed |
| Input Parameters | StoreID or Username |
| Main success scenario | 1.1If **Admin** provides storeID  a. **TradeSystem**: checks if the storeID exists  b. **TradeSystem**: Displays store’s purchase history  1.2 If **Admin** provides Username  a. **TradeSystem**: checks if the Username exists  b. **TradeSystem**: Displays user’s purchase history |
| Alternatives/Extensions | Purchase history is not displayed  ~1.1.a. StoreID not found  ~1.2.a. Username not found |
| Trigger | User looks up purchase history |

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| Action | Data | Expected Result |
| #6.4 View Purchase History using Username | Valid Username | Display User’s purchase history |
|  | Invalid Username | Failure: an error message about invalid Username. |
| #6.4 View Purchase History using StoreID | Valid StoreID | Display store’s purchase history |
|  | Invalid StoreID | Failure: an error message about invalid StoreID. |
| #6.4 View Purchase History | Null | Failure: an error message about invalud input. |

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| Use case name | #6.5 View System data |
| Actors | Admin |
| Pre-conditions | 1. User appointed in use-case 1.1 |
| Post-conditions | 1. Chart of asked data being displayed |
| Input Parameters | Start date, end date. |
| Main success scenario | 1. **Admin** enter start date ,end date.   **TradeSystem** displays the current statistics of the tradesystem to the current chosen days. |
| Alternatives/Extensions | 1. **Admin** enter invalid dates   **TradeSystem** doesn't display anything |
| Trigger | **Admin** want to see **TradeSystem** statistics. |

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| Action | Data | Expected Result |
| #6.5 View System data | Valid dates | TradeSystem statistics shown by the dates |
| sad | Invalid dates | Failure: Stare date and end date must be valid, and date must be larger than stardate |
| bad | Non-admin user requset | Failure: User must be admin |
| bad | External system crashed during transaction | Failure: transaction cannot be fulfilled and must be canceled |

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| Use case name | #7 Payment Collection |
| Actors | PaymentCollection |
| Pre-conditions | 1. Transaction details are valid |
| Post-conditions | 1. Payment processed for exact amount written in transaction details |
| Input Parameters | Transaction details |
| Main success scenario | 1. **PaymentCollection** charges user’s account  2. **PaymentCollection** returns confirmation of payment. |
| Alternatives/Extensions | ~1. Payment cannot be processed due to:  ~ Transaction details are invalid |
| Trigger | A Transaction has taken place, need to charge user |

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| Action | Data | Expected Result |
| #7 Payment Collection  happy | Valid Transaction details | Confirmation that package shipment request was received by Shipment |
| sad | Invalid Transaction details | Failure: an error message about invalid Transaction details. |
| bad | External system is not connected | Failure: transaction cannot be fulfilled and must be canceled |
| bad | External system crashed during transaction | Failure: transaction cannot be fulfilled and must be canceled |

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| Use case name | #8 Package Shipment |
| Actors | Shipment |
| Pre-conditions | 1. Package details are valid  2. User details are valid |
| Post-conditions | none |
| Input Parameters | Package details, User details |
| Main success scenario | 1. **Shipment** verifies package and user details.  2. **Shipment** returns confirmation that shipment request has been accepted. |
| Alternatives/Extensions | ~1.:Shipment process is canceled  ~ User’s info is incorrect  ~ Package details are insufficient |
| Trigger | A transaction has taken place need to ship package to user |

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| Action | Data | Expected Result |
| #8 Package Shipment  happy | Valid User and Package details | Confirmation that package shipment request was received by Shipment |
| sad | Invalid User details and valid package details | Failure: an error message about invalid User details. |
| sad | Valid User details and invalid package details | Failure: an error message about invalid Package details. |
| bad | External system is not connected | Failure: transaction cannot be fulfilled and must be canceled |
| bad | External system crashed during transaction | Failure: transaction cannot be fulfilled and must be canceled |

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| Use case name | #10 Real time notifications |
| Actors | user |
| Pre-conditions | 1.The current situation is according to Use-Case 2.8 |
| Post-conditions | **StoreOwner** receive notification |
| Input Parameters | None |
| Main success scenario | 1. User makes a purchase   1.1 purchase being approved buy payment system   1. **StoreOwner** receives notification |
| Alternatives/Extensions | 1. User makes a purchase   1.1 purchase being declined buy payment system   1. Non real time notification received |

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| Action | Data | Expected Result |
| #10 Real time notifications happy | Valid purchase | Confirmation that purchase was applied in the Store and a notification to the Store owners. |
| sad | Purchase was rejected buy payment system | Failure no notification got received . |
| bad | Socket was closed | Failure: Storeowner receive the notification when he will login again. |