# <u>Use-cases</u>

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## I.1 Market initialization

- 1. Actors: User.
- 2. <u>Post-conditions:</u>
  - 1. A market that compiles all integrity rules was initiated.
- 3. Actions:
- 1. The user enters the market.
- 2. The user is identified as a quest.

## I.2. a. Modifying an external service connection

- 1. Actor: Admin
- 2. Post-conditions:
  - 1. The connection with the external service is updated.
- 3. Actions:
  - 1. The admin wants to modify the connection with an external service.
  - 2. The admin enters the external service's id.
  - 3. The admin selects the field he wants to modify (name, contact number)
  - 4. The admin enters the new name/contact number.
  - 5. A message confirming the modifications is displayed to the admin.

### 4. Alternatives:

- 1. A connection to an external service with the entered id doesn't exist.
  - i. An informative message is displayed.
  - ii. The modification is aborted.
- 2. An external service with the new name already exists in the system.
  - i. An informative message is displayed.
  - ii. The modification is aborted.
- 3. The modified property is invalid.
  - i. An informative message is displayed.
  - ii. The modification is aborted.

Positive/Negative	Scenario	Outcome
Positive	The connection to the external service exists, the admin enters a new name that is valid and available.	The connection is updated. A confirmation message is displayed.
Negative	The connection to the external service does not exist.	An informative message is displayed. The modification is aborted.
Negative	The connection to the external service exists, the new contact number is too short.	An informative message is displayed. The modification is aborted.
Negative	The connection to the external service exists, the admin enters a new name that is valid but is taken by another external service.	An informative message is displayed. The modification is aborted.

# I.2. b. Adding an external service connection

1. Actor: Admin

## 2. Post-conditions:

1. The connection with the external service is added.

## 3. Actions:

- 1. The admin wants to add a connection with an external service.
- 2. The admin selects between payment and delivery service.
- 3. The admin enters the name and contact number.
- 4. A message confirming the addition is displayed to the admin.

## 4. Alternatives:

- 1. An external service with the entered name already exists in the system.
  - i. An informative message is displayed.
  - ii. The modification is aborted.
- 2. The name/contact number is invalid.
  - i. An informative message is displayed.
  - ii. The modification is aborted.

Positive/Negative	Scenario	Outcome
Positive	The admin selects to add a connection to an external delivery service, the name and contact number are valid, the name is available.	The connection is added. A confirmation message is displayed.
Negative	The admin selects to add a connection to an external delivery service, the name is blank.	An informative message is displayed. The addition is aborted.
Negative	The admin selects to add a connection to an external delivery service, the name and contact number are valid, but another connection with the same name already exists.	An informative message is displayed. The modification is aborted.

## I.2. c. Removing an external service connection

1. Actor: Admin

## 2. Post-conditions:

1. The connection with the external service is removed.

### 3. Actions:

- 1. The admin wants to remove a connection with an external service.
- 2. The admin enters the external service's id.
- 3. A message confirming the addition is displayed to the admin.

## 4. Alternatives:

- 1. An external service with the entered id doesn't exist in the system.
  - i. An informative message is displayed.
  - ii. The modification is aborted.
- 2. The connection is to the only delivery/payment service available in the system.
  - i. An informative message is displayed.
  - ii. The modification is aborted.

Positive/Negative	Scenario	Outcome
Positive	The id of the delivery service exists, and it is not the only delivery service available in the system.	The connection is removed.  A confirmation message is displayed.
Negative	The id of the delivery service doesn't exist in the system.	An informative message is displayed. The addition is aborted.
Negative	The id of the delivery service exists but it is the	An informative message is displayed. The modification is aborted.

only delivery service available in the system.	
,	

## 1.3 Process payment via external service

1. Actors: External payment system.

## 2. Pre-conditions:

1. A shipping is confirmed.

## 3. Post-conditions:

- 1. The payment was made.
- **4.** <u>Parameters</u>: Transaction details (amount, credit card number, expiration date, cvc, full name and Id of the card's holder), payment service id.

### 5. Actions:

- 1. The System approaches the external payment service.
  - i. The referral includes the transaction details.
- 2. The External payment service returns confirmation that the payment was successful.

## 6. Alternatives:

- 1. The billing failed.
  - i. The billing is aborted.
  - ii. The external system rejects the payment.

Positive/Negative	Scenario	Outcome
Positive	The billing succeeded.	The payment was made. The external payment service returns a confirmation that the payment was successful.

Negative	The billing failed.	The payment was aborted.
		The external system rejects
		the payment.

## 1.4 Process delivery via external service

1. Actors: External delivery system.

### 2. Pre-conditions:

1. The user has at least one item in his cart.

### 3. Post-conditions:

- 1. The delivery was confirmed.
- **4.** <u>Parameters</u>: Delivery details (receiver's full name, phone number, address, and postal code), items to be delivered, delivery service id.

## 5. Actions:

- 1. The System approaches the external delivery service.
  - i. The referral includes the delivery details.
- 2. The External delivery service returns a confirmation that the delivery is possible.

## 6. Alternatives:

- 1. The delivery is not possible.
  - i. The external system declines the delivery.

Positive/Negative	Scenario	Outcome
Positive	The delivery was approved.	The external delivery service returns a confirmation that the delivery is possible.
Negative	The delivery was not possible.	The external system rejects the delivery.

## <u>I.5/I.6 Receiving a notification.</u>

1. Actor: Member

## 2. Pre-conditions:

1. An event that concerns the member occurred.

### 3. *Post-conditions:*

1. The member received the notification.

## 4. Actions:

- 1. The member was visiting the market at the time the event occurred.
  - i. The member is alerted by the real time notification and can read its content.

## 5. Alternatives:

- 1. The member was not visiting the market at the time the event occurred.
  - i. The member will receive the halted notification the next time he logs in to the market.

Positive/Negative	Scenario	Outcome
Positive	The member is the owner of a shop from which a customer purchased an item. The member is logged in at the time of the purchase.	The member gets a real time notification which notifies him of the purchase
Negative	The member is the owner of a shop from which a customer purchased an item.	The member gets a halted notification which will notify him of the purchase the next time he logs in to the market.

The member is not logged	
in at the time of the	
purchase.	

## II.1.1 Enter as a guest

1. Actor: User

2. Post-conditions:

1. The user is identified as a guest.

3. Actions:

1. A user wants to enter the market.

## **Acceptance Tests**

Positive/Negative	Scenario	Outcome
Positive	The user is unsigned when the user tries to enter as a guest	The user is identified as a guest
Negative	The user is logged in as a guest or a member when the user tries to enter as a guest	An informative message is displayed.

# II.1.2 Logout

1. Actor: Member

2. Pre-conditions:

1. The member is logged in.

3. Post-conditions:

1. The member is logged out and is recognized as a guest.

4. Actions:

1. The member wants to log out from the system.

## **Acceptance Tests**

Positive/Negative	Scenario	Outcome
Positive	The member is logged in.	The member is logged out and recognized as a guest
Negative	The member is not logged in.	An informative message is displayed.

## II.1.3 Sign-Up

- 1. Actor: Guest
- 2. Pre-conditions:
  - 1. The user is a guest (not a member).
- 3. Post-conditions:
  - 1. The guest is registered to the market.
  - 2. The guest is logged in to the market and is recognized as a member.
- 4. Parameters: Username, password.
- 5. Actions:
  - 1. The username is available.
  - 2. The new member has the shopping cart and purchases the guest had with the username and password inserted.
  - 3. The guest is recognized as a member.

### 6. Alternatives:

- 1. Found the same username in the market as inserted.
  - i. Display an error message.

Positive/Negative	Scenario	Outcome
Positive	The member is a guest	A new member is created.
Negative	The member is logged in	An informative message is displayed.
Negative	The username already used	An informative message is displayed.

## II.1.4 Login

- 1. Actor: Guest
- 2. *Pre-conditions:* 
  - 1. The guest is not logged in.
- 3. Post-conditions:
  - 1. The guest is logged in and is recognized as a member.
- 4. Parameters: Username, password.
- 5. Actions:
  - 1. The guest wants to log in to the market.
  - 2. The password matches the username.
- 6. Alternatives:
  - 1. Failed to find a member with the given username/ the password doesn't match to the username.
    - i. Display an error message.

Positive/Negative	Scenario	Outcome
Positive	The user is a guest and	The guest is now recognized
	there is a member with	as a member.
	the same username and	
	password	

Negative	The member is logged in	An informative message is displayed.
Negative	The username and the password are not matching	An informative message is displayed.

## II.2.1 Getting shops and products information

1. Actor: User

2. Actions:

1. Get all the stores and their products.

## **Acceptance Tests**

Positive/Negative	Scenario	Outcome
Positive	The user viewed the shop list	List of all shops and their products is shown.

## **II.2.2 Searching products**

1. Actor: User

2. Parameters: Search string, list of constraints

3. Actions:

1. Get all products from every store.

- 2. For each constraint, remove the irrelevant product.
- 3. Search for products that the search string is their category/ their name/ part of their name.
- 4. Return the result to the user.

Positive/Negative	Scenario	Outcome
Positive	The user searched a product that has the same name as inserted	The product is shown up
Positive	The user searched a product that its name contains the search string	The product is shown up
Positive	The user searched a product that has the same category as inserted	The product is shown up
Negative	The user searched a product that doesn't exists	"No product found" message is displayed.
Negative	The user searched a product that is rejected by the filters	"No product found" message is displayed.

## II.2.3 Adding a new item to the basket

- 1. Actors: User
- 2. Post-conditions:
  - 1. An item with a given ID is added to the shop's basket that belongs to the User.
- 3. <u>Parameters:</u> Item ID number, shop ID number
- 4. Actions:
  - 1. User: Choose an item from the shop list
  - 2. System: Add the item's ID into the corresponding shop basket.

Positive/Negative	Scenario	Outcome
Positive	Try to add an item from an existing shop into the shop basket of the actor.	The item is added to the shop's basket that belongs to the user.
Negative	Try to add an item from an existing shop into the shop basket of another (not the actor) user.	The item is not added to the basket.

## II.2.4 Removing an item from the basket

1. Actors: User

## 2. *Pre-conditions:*

1. User has at least one non-empty shop basket.

## 3. Post-conditions:

- 1. An item with a given ID is removed from the shop's basket that belongs to the User.
- 4. Parameters: Item ID number, shop ID number
- 5. Actions:
  - 1. User: Choose an item from the shop basket.
  - 2. System: Remove the item from the corresponding shop basket.

### 6. Alternatives:

- 1. The item is not in the basket.
  - i. Display an error message.

Positive/Negative	Scenario	Outcome
Positive	Try to remove an item from the actor's basket	The item is removed
Negative	Try to remove an item not from the actor's basket	An error message is displayed.
Negative	Try to remove an item not from the actor's basket	An error message is displayed.

## II.2.5 Purchase a shopping cart

- 1. Actor: User
- 2. Pre-Conditions:
  - 1. The user has at least one item in his shopping cart
- 3. Post-Conditions:
  - 1. The user's shopping cart is empty.
  - 2. The shops' inventory is updated.
  - 3. The purchase is documented in the user's and in the shop's purchase history.
- **4.** <u>Parameters:</u> Shopping cart, user id, delivery details (receiver's full name, phone number, address, and postal code) and billing details (credit card number, expiration date, cvc, full name and Id of the card's holder).

## 5. Actions:

- 1. The user wants to purchase the items in his shopping cart.
- 2. For each shopping basket in the shopping cart:
  - i. The system verifies that the purchase policy of the store is adhered to.

- ii. The system verifies that the quantity of each item in the basket doesn't exceed the amount in stock. (See Check availability in stock)
- iii. The system displays both full and final prices of the items in the shopping basket according to the store's discount policy.
- 3. The system displays the total price of the purchase.
- 4. The system approaches an external payment service.
- 5. The shipping is confirmed by the delivery service.
- 6. The system approaches an external payment service.
- 7. The payment is confirmed by the payment service.
- 8. For each shopping basket in the shopping cart:
  - i. The appropriate store's inventory is updated.
  - ii. The system notifies the appropriate shop's owners that items were purchased from their shop.
- 9. The system displays a purchase confirmation message to the user.
- 10. The seller receives his payment.
- 11. The shopping cart is emptied.

#### 6. Alternatives:

- 1. At least one of the shopping baskets doesn't follow the purchase policy of the appropriate store.
  - i. An informative message is displayed to the user.
  - ii. The purchase is canceled.
- 2. At least one of the items in the cart is out of stock.
  - i. An informative message is displayed to the user.
  - ii. The purchase is canceled.
- 3. The shipping is not confirmed by the external delivery service.
  - i. An informative message is displayed to the user.
  - ii. The purchase is canceled.
- 4. The payment is rejected by the external payment service.
  - i. An informative message is displayed to the user.
  - ii. The purchase is canceled.

Positive/Negative	Scenario	Outcome
Positive	All the baskets in the shopping cart adhered to the appropriate shop's purchase policy, all the items are in stock, the shipping and payment are confirmed.	The purchase is confirmed and documented. The shop owners are notified about the purchase. The shops' inventory is updated. The user's shopping cart is empty.
Negative	One of the baskets in the cart doesn't follow the purchase policy of the appropriate store, all the items are in stock.	An informative message is displayed. The purchase is canceled.
Negative	All the baskets in the shopping cart adhered to the appropriate shop's purchase policy, one of the items in the cart is out of stock.	An informative message is displayed. The purchase is canceled.

## Check availability in stock

- 1. Actors: Store owner
- 2. *Pre-conditions:* 
  - 1. The store owner has inventory management permissions over the specified store.
- **3.** <u>Parameters:</u> Store id, a list of products and the desired quantities.
- 4. Actions:
  - 1. For each product:
    - i. The system checks if the quantity in stock is equal to or greater than the desired quantity.

2. The system confirms that all the listed products are available.

### 5. Alternatives:

- 1. At least one of the items in the cart is out of stock.
  - i. An informative message is displayed to the store owner.

## II.3.1 Log-out

1. Actors: Member

**2.** *Post conditions*: The member is not logged in.

3. Actions:

1. Member: Logs out of the system

### Acceptance Tests

Positive/Negative	Scenario	Outcome
Positive	Member logs out	The member is not logged in.
Negative	A user that did not log in logs out	The log-out fails.

## II.3.2 Opening a store

1. <u>Actors:</u> Member, System

## 2. Post-conditions:

- 1. The new store is opened with the member as its founder.
- 3. Parameters: Unique (unused) store name
- 4. Actions:
  - 1. Member: Opens a store.
  - 2. The system grants the user the shop founder permissions for the store he opened.

Positive/Negative	Scenario	Outcome
Positive	Member opens a store	The system grants the user the shop founder permissions for the store he opened.
Negative	The member opens a store with the name that is already used	The store opening fails.

# <u>II.3.3/II.3.4 Writing reviews about purchased products or rating the products</u>

- 1. Actors: Member
- 2. *Pre-conditions:* 
  - 1. The member has bought at least one item.
- 3. Post-conditions:
  - 1. The item receives a review written by the user.
- **4.** Parameters: item ID number, shop ID number
- 5. Actions:
  - 1. Member: Chooses an item from bought items
  - 2. Member: Writes a review for this item and sends it or rates it

## 6. Alternatives:

- 1. Member rates one of the items he bought.
- 2. Member writes a review for an item he didn't receive.

Positive/Negative	Scenario	Outcome
Positive	Member writes a review for one of the items he bought	The reviewing is successful.
Negative	Member sends an empty review	The reviewing fails.

## II.3.5 Sending messages to the store

1. Actors: Member

## 2. Post conditions:

- 1. The shop management staff can access the message sent by the Member.
- 3. <u>Parameters:</u> Shop ID number
- 4. Actions:
  - 1. Member: Chooses a shop
  - 2. Member: Sends a message to the shop

## 5. Alternatives:

- 1. User writes a message to a closed store.
  - i. An informative error message Is displayed.

Positive/Negative	Scenario	Outcome
Positive	User sends a message to a store	The message is received by the store's owners.
Negative	User sends an empty message	An informative error message Is displayed

## II.3.6 Submitting complaints

- 1. Actors: Member
- 2. *Pre-conditions:* 
  - 1. The member made at least one order.
- 3. Post-conditions:
  - 1. The administrator receives a complaint from the member.
- 4. Parameters: order ID number, complain text
- 5. Actions:
  - 1. Member: Submits a complaint regarding an order the member made
  - 2. System: Sends the complaint to the administrator.

## **Acceptance Tests**

Positive/Negative	Scenario	Outcome
Positive	Member sends a complaint regarding an order he made	The administrator receives a complaint from the member.
Negative	Member sends a complaint regarding an order he didn't make (illegal order ID)	An informative error message Is displayed

# II.3.7/II.6.4 Browse personal purchase history.

1. Actors: Member

2. Parameters: Member's id

3. Actions:

- 1. The member wants to browse his purchase history.
- 2. The system displays the member's purchase history.

Positive/Negative	Scenario	Outcome
Positive	The member has previous purchases.	A list of the member's previous purchases is displayed.
Negative	The member doesn't have previous purchases.	An empty list is presented to the member.

# II.3.8 Accessing the account details and changing them

1. Actors: Member

## 2. Post-conditions:

- 1. Member's account details are changed (optional)
- 3. <u>Parameters:</u> new account details(optional)
- 4. Actions:
  - 1. Member: checks his account details

## 5. *Alternatives:*

- 1. Member: makes changes to the account details
- 2.

Positive/Negative	Scenario	Outcome
Positive	Member checks his account details.	The member's account details are displayed.
Positive	Member updates his account details	Member's account details are changed
Negative	Member updates his account details with illegal data.	An informative error message Is displayed

## II.3.9 Upgrading security level

- 1. Actors: Member
- 2. *Pre-conditions:* 
  - 1. The member's account's security level is not maximal.
- 3. *Post-conditions:* 
  - 1. The security level of the member's account is upgraded.
- **4.** Parameters: Security questions and answers to them
- 5. Actions:
  - 1. Member: Upgrades his account security level and provides security questions and answers

#### Acceptance Tests

Positive/Negative	Scenario	Outcome
Positive	Member upgrades the account security level	The security level of the member's account is upgraded.

## II.4.1 Managing the store's inventory

- 1. Actors: Store owner
- 2. *Pre-conditions:* 
  - 1. The store owner has inventory management permissions over the specified store.
- 3. *Post-conditions:* 
  - 1. The store's inventory is up to date.
- 4. Parameters: Store id
- 5. Actions:
  - 1. If the store owner wants to add a new product:
    - i. The store owner enters the new product's name, serial number, description, price, and quantity.
    - ii. The system adds the new product to the list of available products of the store.

- iii. A message confirming the addition is displayed.
- 2. If the store owner wants to modify a product's details.

### The store owner enters the product's serial number.

- i. The store owner enters a new name/description/price.
- ii. The product's details are updated.
- iii. A message confirming the modification is displayed.
- 3. If the store owner wants to remove a product.
  - i. The store owner enters the product's serial number.
  - ii. The product is removed.
  - iii. A message confirming the removal is displayed.

## 6. Alternatives:

- 1. If one of the following occurs:
  - i. The store owner enters a blank name/description.
  - *ii.* The store owner enters a serial number that belongs to another product.
  - iii. The store owner enters a price which is equal to 0 or negative.
  - iv. The store owner enters a negative quantity.
  - v. A product with the entered serial number doesn't exist.
    - 1. An informative message is displayed.
    - 2. The operation is aborted.

### Acceptance test:

Positive/Negative	Scenario	Outcome
Positive	The store owner wants to add a new product, he enters valid name, serial number, description, price, and quantity.	The new product is added to the store's inventory.  A message that confirms the addition is displayed.

Negative	The store owner wants to add a new product, he enters valid name, serial number, description and price he enters a negative number as quantity.	An informative message is displayed. The operation is aborted.
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## II.4.4 Store owner promotes another member to be a new store owner

1. Actors: Store owner, Member

## 2. *Pre-conditions:*

1. The store owner is logged in and the member is registered.

## 3. Post-conditions:

- 1. The member becomes a new shop owner under the original shop owner.
- 4. Parameters: Member id

## 5. Actions:

- 1. The owner promotes another member to be a new shop owner.
- 2. The member confirms his promotion.

### Acceptance test:

Positive/Negative	Scenario	Outcome
Positive	Store owner promotes a registered member to be a new store owner at his store	The member becomes a new shop owner under the original shop owner
Negative	Store owner tries to promote an unregistered member to be a new store owner at his store.	An informative message is displayed.

# <u>II.4.6 Store owner promotes another member to be a new store</u> manager

1. Actors: Store owner, Member

### 2. *Pre-conditions:*

1. The store owner is logged in and the member is registered.

## 3. Post-conditions:

- 1. The member becomes a new shop manager under the original shop owner.
- 4. Parameters: Member id.

## 5. Actions:

- 1. The owner promotes another member to be a new store manager.
- 2. The member confirms his promotion.

## 6. Alternatives:

1. The shop owner is notified that the member is not registered.

## Acceptance test:

Positive/Negative	Scenario	Outcome
Positive	The store owner promotes a registered member to be a new store manager at his store.	The member becomes a new shop manager under the original shop owner.
Negative	The store owner tries to promote an unregistered member to be a new store manager at his store	The shop owner is notified that the member is not registered.

## II.4.7 Store owner changes the permissions of a store manager

1. Actors: Store owner, Store manager

## 2. *Pre-conditions:*

- 1. The store owner logged in.
- 2. The manager was promoted by the store owner or by someone that was promoted by the store owner.

## 3. Post conditions:

- 1. The manager's permissions are changed according to owner changes.
- 4. Parameters: Manager id.

## 5. Actions:

1. The owner changes the permissions of a manager who is under him.

## 6. Alternatives:

1. The shop owner is notified that he cannot change the manager's permissions.

Positive/Negative	Scenario	Outcome
Positive	The store owner changes the permissions of a store manager who is under his responsibility.	The manager's permissions are changed according to owner changes.
Negative	The store owner tries to change the permissions of a store manager who is not under his responsibility.	The shop owner is notified that he cannot change the manager's permissions.

## II.4.9 Store founder closes his store

1. Actors: Store founder

## 2. Pre-conditions:

1. The store founder is the member who opened the store in the system.

## 3. Post conditions:

- 1. The shop is closed, and members of the system cannot view it.
- 4. Parameters: Store id.
- 5. Actions:
  - 1. The founder closes the shop.
  - 2. All the shop owners and managers are notified.

## 6. Alternatives:

1. The shop owner is notified that he cannot close the shop.

Positive/Negative	Scenario	Outcome
Positive	The store founder closes his shop.	The shop is closed, and members of the system cannot view it.
Negative	The store owner (who is not the founder) tries to close the shop.	The shop owner is notified that he cannot close the shop.

## II.4.11 Store owner requests information about the store

1. Actors: Store owner

## 2. *Pre-conditions:*

1. The store owner is logged in.

## 3. Post conditions:

- 1. The store owner gets all the information that he asked for.
- 4. Parameters: Store id.

## 5. *Actions:*

- 1. The store owner views all the workers (store owners and managers) in the store.
- 2. The store owner views the permissions that store managers have.

## 6. Alternative:

1. The member is notified that he cannot view the information.

Positive/Negative	Scenario	Outcome
Positive	The store owner requests to view the information.	The store owner gets all the information that he asked for.
Negative	Regular members request to view the information.	The member is notified that he cannot view the information.

## II.4.13/ II.6.4 Browse shop's purchase history.

1. Actors: Seller/Admin

## 2. Pre-conditions:

- 1. The seller has browsing permissions over the shop's purchase history.
- 2. A shop with the given id exists.
- 3. Parameters: Shop id

## 4. Actions:

- 1. The admin/seller wants to browse the purchase history of the shop.
- 2. The system presents the shop's purchase history to the seller/admin.

## 5. *Alternatives*:

- 1. The shop doesn't have previous purchases.
  - i. An empty list is presented to the seller/admin.

Positive/Negative	Scenario	Outcome
Positive	The seller has browsing permissions over the shop's purchase history which contains at least one purchase record.	A list of the shop's previous purchases is displayed to the seller.
Negative	The seller has browsing permissions over the shop's purchase history, but the shop doesn't have any previous purchases.	An empty list is presented to the seller.