# **Use-Cases**

# System

### Use-case 1.1: Initialize the Market

1. Actor: Main system

Precondition: There is no initialized market
 Parameters: Payment service, supply service

4. Actions:

Open a new Market

• Connecting to payment and supply services

• Create a user which will be the admin

Action	Data	Expected Result
Initialize the Market	payment service, supply service (valid)	Market creates successfully
mittanze the Market	payment service, supply service (invalid)	Displaying an error massage

#### Use-case 1.2.1: Add external service

1. Actor: User

2. Precondition: User is an admin, market is not connected to the external service

**3.** Parameters: external service to be added

4. Actions:

• Admin adding a new external service to the market(system)

System validates the external service to be added

• The system returns an error/success message

Action	Data	Expected Result
	Market, external service to be added (valid)	External service added successfully
Adding new external service	Market, external service to be added (invalid)	Fails to add an external service, displaying an error message

#### Use-case 1.2.2: Remove external service

- 1. Actor: User
- 2. Precondition: User is an admin, market is connected to the external service
- 3. Parameters: external service to be removed
- 4. Actions:
  - Admin asks the system to remove an external service
  - The system verifies that the external service to be removed is not a mandatory service
  - The system returns an error/success message

Action	Data	Expected Result
Adding new external service	Market, external service to be removed (optional service)	External service removed successfully
	Market, external service to be removed (mandatory service)	Fails to remove the external service, displaying an error message

### Use-case 1.2.3: Replace external service

- 1. Actor: User
- 2. Precondition: User is an admin, market is connected to the external service
- 3. Parameters: External service to be replaced, external service to be added instead
- 4. Actions:
  - Admin asks the system to remove the external service to be removed (1.2.2)
  - Admin asks the system to add the external service to be added (1.2.1)
  - The system returns an error/success message

Action	Data	<b>Expected Result</b>
Replace external service	Market, external service to be replaced, External service to be added instead (valid)	External service replaced successfully
	Market, external service to be replaced, External service to be added instead (invalid)	Fails to remove/add the external service, displaying an error message

### Use-case 1.3: Payment

1. Actor: Market

Precondition: Payment service exists
 Parameters: Transaction details

4. Actions:

• Market getting a request for payment from a user in the system

• Market connecting to payment service

• Market makes the payment via the payment service

 The market getting an answer and pass it to the actor which request the payment

Action	Data	<b>Expected Result</b>
	Correct transaction details	Payment done successfully – returning a Confirmation message
Payment	Incorrect transaction details	Payment denied – returning a Refusal message
	Correct transaction details (There is no payment service)	Failed to connect to payment service, system crashed

### Use-case 1.4: Supply

1. Actor: Market

2. Precondition: Supply service exists

3. Parameters: Package details, costumer details

4. Actions:

• Market getting a request for supply from a user in the system

• Market connecting to supply service

• Market performs the delivery process via the supply service

The market getting an answer and pass it to the actor which request the payment

Action	Data	<b>Expected Result</b>
	Correct Package details, correct costumer details	Supply done successfully – returning a Confirmation message
Supply	Costumer does not exist	Supply denied – returning a Refusal message
	Correct Package details, correct costumer details (There is no supply service)	Failed to connect to supply service

#### Use-case 1.5: Real-time alerts

1. Actor: Market

2. Precondition: Market has been initialized

3. Parameters: Destination user details (store manager, registered user, etc)

4. Actions:

 After an event happening, market is connecting to Notification Handler internal service

• Market sends the destination user details and the notification context

• The users will check their "Inquiry box" for an unread message

• The destination user will answer the alert if needed at the same way

Action	Data	<b>Expected Result</b>
Customer purchase a product from a store	Store manager id, notification context	Store manager received the massage successfully
Store is closes	Store manager is not existing	Failed to deliver the alert
A request has been applied	Correct destination user details, a massage describes the event (there is no notification handler)	Notification Handler has not been initialized

### Use-case 1.6: Delayed alerts

1. Actor: System

2. Precondition: Market has been initialized

3. Parameters: Destination details (store manager, registered user, etc)

4. Actions:

• After an event happening, connect to Notification Handler object

Market sends the destination user details and the notification context

• If the destination alert user is not sign in, market is adding the massage to his delayed massages queue

• When user will sign in, the alert will be showed to him

Action	Data	<b>Expected Result</b>
Customer purchase a product from a store	Store manager id, notification context	adding the massage to Store manager's delayed massages queue
Store is closes	Store manager is not existing	Failed to deliver the alert
A request has been applied	Correct destination details, a massage describes the event (there is no notification handler)	Notification Handler has not been initialized

# **Users**

### Use-case 2.1.1: Visitor – Entrance

1. Actor: User

2. Precondition: Market has been initialized

3. Parameters: None

4. Actions:

• User enter the market, defined as a visitor

Visitor gets a shopping cart, can buy from the market

Action	Data	Expected Result
Visitor – Entrance	None	User enter the market successfully and become a visitor
	None	Market has not been initialized

### Use-case 2.1.2: Visitor - Exit

1. Actor: User

2. Precondition: User is a visitor

**3. Parameters:** None

4. Actions:

• The user(visitor) exits the market

• Visitor's shopping cart is gone

Action	Data	Expected Result
Visitor - Exit	None	Visitor exit the market successfully

### Use-case 2.1.3: Visitor - Register

1. Actor: User

Precondition: User is a visitor
 Parameters: User name, password

4. Actions:

Visitor registers to the system with his credentials

• The system checks visitor's credentials meet the constraints

• If credentials are correct, the visitor become assigned user

• If credentials are incorrect, an error message sent to the visitor.

Register failed

Action	Data	Expected Result
Visitor - Register	User name, password (correct credentials)	Visitor become an assigned user successfully
Visitor Register	User name, password (incorrect credentials)	Register failed. Visitor received an error massage

### Use-case 2.1.4: Visitor - Log-In

1. Actor: User

Precondition: User is a visitor
 Parameters: User name, password

4. Actions:

• Visitor Log-In the system with his credentials

• The system checks that the credentials are correct (the same credentials provided by the user when registering to the system )

• If credentials are correct, the visitor become assigned user

 If credentials are incorrect, a specific error message sent to the visitor (which credentials are incorrect)

Log-In failed

Action	Data	Expected Result
Visitor - Log-In	User name, password (correct credentials)	Visitor become an assigned user successfully
VISION LOG III	User name, password (incorrect credentials)	Log-In failed, visitor gets a specific error massage

### Use-case 2.2.1: Getting information about market's store.

1. Actor: User

2. Precondition: User is a visitor, the market contains at least one store.

3. Parameters: Store id.

4. Actions:

The system searching the store in the market by a store id.

Market display to the user the store information.

Action	Data	Expected Result
	Store id-for a store that	Displaying The store
Getting information about	exist.	information.
the store.	Store id-for a store that not	Displaying failure massage.
	exist.	

# Use-case 2.2.2: Searching a product with parameters and filters.

1. Actor: User

2. Precondition: User is a visitor, the market contains at least one product.

**3.** Parameters: product id, filters.

**4. Actions:** The system scanning the market for products that meets the filters and parameters.

Action	Data	Expected Result
	There is at least one	List of products.
Scanning the market for products that meets the	product which answer all parameters and filters.	
filters and parameters.	There is no product which	Displaying an appropriate
	answer all parameters.	message.

### Use-case 2.2.3: Saving products into a shopping basket.

1. Actor: User

**2. Precondition:** User is a visitor, there is at least one store in the market with at least one product

3. Parameters: product id, store id

4. Actions:

The user is choosing the desired product or products to save.

- The system checks if the user has a shopping basket for specific store
- If the user doesn't have a shopping basket, the system will open a new one
- The system is saving the products to the shopping basket.

Action	Data	<b>Expected Result</b>
	Product and store id (valid).	The product added to the
User saving a product		user's shopping basket.

or a group of products to	Product and store id	Displaying an error
the shopping cart.	(invalid).	message.

### Use-case 2.2.4A: Displaying shopping cart content

1. Actor: User

**2. Precondition:** User is a visitor, user has shopping cart

3. Parameters: None

4. Actions:

Getting the user's shopping cart by the system

• The system display cart content to the user

Action	Data	Expected Result
	User has a shopping cart object(valid)	Displaying cart content.
Displaying cart contents.	User does not have a shopping cart object	Displaying an appropriate error message

# Use-case 2.2.4B: Making changes to the shopping cart

1. Actor: User

2. Precondition: User is a visitor, user has shopping cart

3. Parameters: product id, action to do on the product

4. Actions:

• Getting the user's shopping cart by the system

• The system letting the user to change cart content

Action	Data	<b>Expected Result</b>
	Action, Product id(valid)	Changing the cart content
		Displaying an appropriate
changing cart contents.	Action, Product id(invalid)	error message
	User does not have a	Failed to get the user's
	shopping cart	shopping cart

### Use-case 2.2.5: Buying the shopping cart content.

1. Actor: User

**2. Precondition:** User is a visitor, user has a shopping cart with at least one shopping basket, valid payment service, valid supply service

3. Parameters: payment service, supply service

4. Actions:

• Getting the user's shopping cart by the system

- The system verifies the shopping cart contains at least one non empty shopping basket
- The system calculates the total price according the discount policy
- The system is connecting to payment service in order to pay for the products.
- The system is connecting to supply service in order to ship the products.

Action	Data	Expected Result
	Shipping data (valid –	Displaying a confirmation
Shipping with supply	purchase policy and type	supply message
service	are match).	
	Shipping data(invalid).	Displaying an appropriate
		error message
	Payment data(valid).	Displaying a confirmation
		payment message
Paying with the payment	Payment data (invalid),	Displaying an appropriate
service.	purchase does not match	error message
	the purchase policy	
	Refusal by the payment	Displaying an appropriate
	service	error message

# Use-case 2.3.1: Logout

1. Actor: User

**2. Precondition:** User is connected to the system.

3. Parameters: None

4. Actions:

• The system is saving the user state and his shopping cart to the DB

• The system disconnects the user from the system.

Action	Data	Expected Result
	User's state and shopping	User's state saved to DB.
Logout	cart (valid)	User disconnected from the
		system

User is not connected to	Displaying an appropriate
the system	error message

### Use-case 2.3.2: Open a store

- 1. Actor: User
- **2. Precondition:** User is connected to the system, there is no other store with the same id
- **3.** Parameters: store parameters (name, type, etc)
- 4. Actions:
  - The system creates a new store in the market
  - The market defines the store opener to be the first owner

Action	Data	Expected Result
	Store parameters(valid)	Store is added to the
		market, the opener
Opening a store		become store owner
	Store parameters(invalid)	Displaying an appropriate
		error message
	User is not connected to	Displaying an appropriate
	the system	error message

### Use-case 2.3.3: Adding a review about products

- 1. Actor: User
- **2. Precondition:** User is connected to the system, product exists , the user bought the product
- 3. Parameters: review content, product id
- 4. Actions:
  - The system creates a new review with the review content
  - The system gets the store of the product
  - The system is adding the review to the store review queue

Action	Data	<b>Expected Result</b>
		Adding a review to the
	All of the mandatory fields	store review queue and
	for a review are full and	displaying a confirmation
	valid	massage.

Adding a review about products	At least one of the mandatory fields is invalid.	Displaying an appropriate error message.
	User is not connected to the system	Displaying an appropriate error message

### Use-case 2.3.4: Adding a rating for a store or a product.

- 1. Actor: User
- **2. Precondition:** User is connected to the system, store or product you want to rate is exists.
- 3. Parameters: rating content, product or store id
- 4. Actions:
  - The system creates a new rating with the rating content
  - The system gets the desired store or product
  - The system is adding the rating to the store or product ratings queue

Action	Data	Expected Result
Adding a rating for a store or a product	Rating data(valid)	Adding the rating to the rating database.
	Rating data(invalid)	Displaying an appropriate error message.
	User is not connected to the system	Displaying an appropriate error message

## Use-case 2.3.5: Sending question or requests to a store

- 1. Actor: User
- 2. **Precondition:** User is connected to the system, the store you want to send the question to exists, request handler object exists.
- **3.** Parameters: store id, question or request.
- 4. Actions:
  - The system creates a new request/question with the data given by the user.
  - The system sends the request/question to the request handler.
  - The request handler is sending the request/question to the store.

Action	Data	Expected Result
	All of the mandatory field	Sending the object to the
	for a review are full and	store.
	valid	

Sending question or requests to a store.	At least one parameter for the object contractor is not valid.	Displaying an appropriate error message.
	User is not connected to the system	Displaying an appropriate error message.

### Use-case 2.3.6: Sending a compliant about integrity issues.

1. Actor: User

2. Precondition: User is connected to the system, the user has made a purchase

**3.** Parameters: store id, compliant content

4. Actions:

The system is connected to request handler

• The system is adding the complaint to the admin compliant list via the request handler

Action	Data	<b>Expected Result</b>
	Compliant data(valid), store id(valid)	Adding the complaint to the admin compliant list
Sending a compliant about integrity issues	Compliant data or store id is invalid	Displaying an appropriate error message.
	User is not connected to the system	Displaying an appropriate error message.

### Use-case 2.3.7: Getting information about user purchase history

1. Actor: User

2. Precondition: User is connected to the system, user has a purchase history

**3. Parameters:** None

**4. Actions:** The system display the purchase history.

Action	Data	Expected Result
	None	Displaying the user
		purchase history.
Displaying the purchase	User does not have a	Operation failed, nothing is
history	purchase history	showed to the user
	User is not connected to	Displaying an appropriate
	the system	error message

# Use-case 2.3.8A: Displaying user information

1. Actor: User

2. Precondition: User is connected to the system

3. Parameters: None

**4. Actions:** The system display user information

Action	Data	Expected Result
	None	Displaying user information
Getting user information	User is not connected to the system	Displaying an appropriate error massage.
	User is not connected to the system	Displaying an appropriate error massage

# Use-case 2.3.8B: Changing user information

1. Actor: User

2. Precondition: User is connected to the system

**3. Parameters:** new user information.

4. Action:

The system is changing the user information.

Action	Data	Expected Result
	All of the new fields are valid	Replacing the old information with the new one.
Changing user information	There is at least one invalid field.	Displaying an appropriate error massage.
	User is not connected to the system	Displaying an appropriate error massage

### Use-case 2.3.9: Update user subscription security.

1. Actor: User

2. Precondition: User is connected to the system, user has subscription security

3. Parameters: new security measure

4. Actions:

• The system checks if the new security measure is valid

The system checks if user defined subscription security

• The system updates user's subscription security

Action	Data	Expected Result
	New security measure	Update the user
Update subscription	(valid)	subscription security.
security	New security measure	Displaying an appropriate
	(invalid)	error massage.
	User is not connected to	Displaying an appropriate
	the system	error massage

### Use-case 2.4.1.1: Adding an item to inventory

1. Actor: user

**2. Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the item is not already in the store's inventory

3. Parameters: Store id, item details

4. Actions:

• The user adds new item with all the details

• The system verify that the user is the store owner

• The system verify that the user is logged in

• The system verify correctness of the item details

• The system generate unique id for the item

The user gets a response according to success or failure

Action	Data	<b>Expected Result</b>
	Store_ id = user.own_stores[i] Valid item details	Success
adding an item to inventory	Store_ id != user.own_stores[i] Valid item details	Failure – the user is not the store owner

### Use-case 2.4.1.2: Removing an item from inventory

1. Actor: user

2. **Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the item is in the store's inventory

**3.** Parameters: Store id, item id

4. Actions:

• The user enters the item id

• The system verify that the user is the store owner

• The system verify that the user is logged in

• The system verify that the item exist in the inventory

• The system removes the item from the inventory

• The user get response according to success or failure

Action	Data	<b>Expected Result</b>
removing an item from inventory	Item id is exist in the store's inventory & Store_ id = user.own_stores[i]	Success
	Item id isn't exist in the store's inventory	Failure – the item is not in the store's inventory

# Use-case 2.4.1.3: Updating item details

- 1. Actor: user
- 2. **Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the item is in the store's inventory
- **3.** Parameters: Store id, item id, item details
- 4. Actions:
  - User enters the item id
  - The system verify that the user is the store owner
  - The system verify that the user is logged in
  - The system verify that the item exist in the inventory
  - The system verify correctness of new details
  - The system update the item's details
  - The user get response according to success or failure

Action	Data	<b>Expected Result</b>
	Item id is exist in the store's inventory & Store_ id = user.own_stores[i] & Valid details	Success
updating item details	Item id is exist in the store's inventory & Store_ id = user.own_stores[i] & Quantity < 0	Failure – invalid quantity

### Use-case 2.4.2.1: Set discount policy

- 1. Actor: user
- **2. Precondition:** The user is a store manager, the user is a manager of this specific store the user is logged in
- 3. Parameters: Store id, user id, type of users, type of discounts, policy rules
- 4. Actions:
  - The user enter all the parameters for discount policy
  - The system verify that the user is a store manager and has the required permissions
  - The system verify that the user is logged in
  - The system verify correctness of the parameters
  - The system verify that there is no contradiction of consistency rules
  - The system update the store's discount policy
  - The user get response according to success or failure

Action	Data	Expected Result
	Store_ id = user.manager_stores[i] & Valid details	Success
set discount policy	Store_ id not in user.manager_stores& Valid details	Failure – the user is not the store's manager

#### Use-case 2.4.2.2: Set purchases policy

- 1. Actor: user
- 2. **Precondition:** the user is a store manager, the user is a manager of this specific store, the user is logged in
- 3. Parameters: Store id, user id, type of users, type of purchases, policy rules
- 4. Actions:
  - The user enters all the parameters for purchases policy
  - The system verify that the user is a store manager and has the required permissions
  - The system verify that the user is logged in
  - The system verify correctness of the parameters
  - The system verify that there is no contradiction of consistency rules
  - The system update the store's purchases policy
  - The user get response according to success or failure

Action	Data	<b>Expected Result</b>
	Store_ id = user.manager_stores[i] & Valid details	Success
set purchases policy	Store_ id not in user.manager_stores & Valid details	Failure – the user is not the store's manager

### Use-case 2.4.3.1: Set discount policy constrains

- 1. Actor: user
- 2. **Precondition:** The user is a store founder, the user is a founder of this specific store, the user is logged in
- 3. **Parameters:** Store id, user id, discount policy rules constrains
- 4. Actions:
  - The user enters discount policy rules constrains
  - The system verify that the user is a store founder
  - The system verify that the user is logged in
  - The system verify correctness of the constrains
  - The system update the store's discount policy constrains
  - The user gets a response according to success or failure

Action	Data	Expected Result
set discount policy	Store_ id = user. founder _stores[i] & Valid details	Success
constrains	Store_ id not in user. founder_stores & Valid details	Failure – the user is not the store's founder

### Use-case 2.4.3.2: Set purchases policy constrains

- 1. Actor: user
- 2. **Precondition:** The user is a store founder, the user is a founder of this specific store, the user is logged in
- 3. Parameters: Store id, user id, purchases policy rules constrains
- 4. Actions:
  - The user enter purchases policy rules constrains
  - The system verify that the user is the store founder
  - The system verify that the user is logged in
  - The system verify correctness of the constrains
  - The system update the store's purchases policy constrains
  - The user get response according to success or failure

Action	Data	Expected Result
	Store_ id = user. founder _stores[i] & Valid details	Success
set purchases policy constrains	Store_ id not in user. founder_stores & Valid details	Failure – the user is not the store's founder

#### Use-case 2.4.4: appoint store owner

- 1. Actor: user
- **2. Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the user (who will be appointed) is not an owner of this store
- 3. Parameters: Store id, user id, appointed\_user id
- 4. Actions:
  - User enters the appointed user id
  - The system verifies that the user is the store owner
  - The system verifies that the user is logged in
  - The system verifies that appointed user is not an owner of this store
  - The system gives appointed\_user owner permissions for this store
  - The user gets a response according to success or failure

Action	Data	<b>Expected Result</b>
appoint store owner	Store_id != Appointed_user.own_stores[i] & Store_id = user.own_stores[i]	Success
	Store_id = appointed_user.own_stores[i] & Store_id = user.own_stores[i]	Failure – Appointed_user is already owner of this store

### Use-case 2.4.5: remove appointment of store owner

- 1. Actor: user
- **2. Precondition:** The user is a store owner, the user made the appointment of the store owner, the user is the owner of this specific store, the store owner is the owner of this specific store, the user is logged in
- 3. Parameters: Store id, user id, store owner id
- 4. Actions:
  - The user enters the store owner's id
  - The system verifies that the user is logged in
  - The system verifies that the user is the one who made the appointment of the store owner
  - The system verifies that the user is a store owner
  - The system verifies that the store owner is a store owner
  - The system removes the store owner's permissions for this store
  - The system removes all the store owners and managers who were appointed by the store owner
  - The user gets a response according to success or failure

Action	Data	Expected Result
remove appointment of	Store_id = user.own_stores[i] = store_owner.own_stores[i] & Store_owner.nominator = user.id	Success
store owner	Store_id = user.own_stores[i] = store_owner.own_stores[i] & Store_owner.nominator != user.id	Failure – user is not the nominator of the store owner

### Use-case 2.4.6: appoint store manager

- 1. Actor: user
- **2. Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the appointed\_user is not owner or manager or founder of this store
- 3. Parameters: Store id, user id, appointed\_user id
- 4. Actions:
  - User enter the appointed\_user id
  - The system verifies that the user is the store owner
  - The system verifies that the user is logged in
  - The system verifies that the appointed\_user is not an owner\manager\founder of this store
  - The system gives the appointed\_user manager permissions for this store for getting information
  - The system sets the appointer of the new store manager to the user
  - The user gets a response according to success or failure

Action	Data	Expected Result
appoint store manager	Store_ id != appointed_user. manager _stores[i] & Store_ id = user. manager _stores[i]	Success
	Store_ id = appointed_user. owner_stores[i] & Store_ id = user. manager _stores[i]	Failure – the appointed_user is already manager of this store

### Use-case 2.4.7 : set permissions of store manager

- 1. Actor: user
- 2. **Precondition:** The user is a store owner, the user is the owner of this specific store, the user is logged in, the manager is a manager of this specific store, the manager was appointed by this user
- 3. Parameters: Store id, user id, manager id, permissions
- 4. Actions:
  - User enters the manager id
  - The system verifies that the user is a store owner
  - The system verifies that the user is logged in
  - The system verifies that the manager is a manager of this store
  - The system verifies that the appointer of the manager is the user
  - The system sets the manager permissions for this store
  - The user gets a response according to success or failure

Action	Data	<b>Expected Result</b>
set permissions of store	Store_ id = manager. manager _stores[i] & Store_ id = user. owner_stores[i] & valid permissions & manager. nominator = user_id	Success
manager	Store_id = manager. manager _stores[i] & Store_id != user. owner_stores[i] & valid permissions & manader. nominator = user_id	Failure – the user is not an owner

### Use-case 2.4.8: remove appointment of store manager

- 1. Actor: User
- **2. Precondition:** The user is a store owner, user is the one who made the appointment of the specific store manager, the user is an owner of this specific store, the user is logged in
- 3. Parameters: Store id, user id, store manager id
- 4. Actions:
  - User enters the store manager id
  - The system verifies that the user is logged in
  - The system verifies that the user is the one who made the appointment of this store manager
  - The system verifies that the user is a store owner
  - The system verifies that the store manager is a store manager
  - The system removes store manager permissions for this store
  - The user gets a response according to success or failure

Action	Data	Expected Result
remove appointment of	Store_ id = manager. manager _stores[i] & Store_ id = user. owner_stores[i] & valid permissions & manager. nominator = user_id	Success
store manager	Store_id = manager. manager _stores[i] & Store_id != user. owner_stores[i] & valid permissions & manager. nominator = user_id	Failure – the user is not an owner

#### Use-case 2.4.9: close store

- 1. Actor: User
- **2. Precondition:** The user is a store founder, the user is a founder of this specific store, the user is logged in, the store is open
- 3. Parameters: Store id, user id
- 4. Actions:
  - User enters the store id
  - The system verifies that the user is logged in
  - The system verifies that the user is the store founder
  - The system verifies that the store is open
  - The system notifies the store owners & managers about the event
  - The system hides from users information about the store and its products
  - The user gets a response according to success or failure

Action	Data	Expected Result
	Store_ id = user. founder _stores[i] & store.status = open	Success
close store	Store_ id = user. founder _stores[i] & store.status = close	Failure – the store is already closed

### Use-case 2.4.10: open closed store

- 1. Actor: User
- **2. Precondition :** The user is a store founder, the user is a founder of this specific store, the user is logged in, the store was closed by the user
- 3. Parameters: Store id, user id
- 4. Actions:
  - The user enters the store id
  - The system verifies that the user is logged in
  - The system verifies that user is the store founder
  - The system verifies that the store is closed
  - The system notifies the store owners & managers about the event
  - The user gets a response according to success or failure

Action	Data	Expected Result
	Store_ id = user. founder _stores[i] & store.status = close	Success
open closed store	Store_ id = user. founder _stores[i] & store.status = open	Failure – the store is not closed

### Use-case 2.4.11: get store staff & permissions information

1. Actor: User

**2. Precondition :** The user is a store owner, the user is an owner of this specific store, the user is logged in

3. Parameters: Store id, user id

4. Actions:

• User enters the store id

- The system verifies that the user is logged in
- The system verifies that user is the store owner
- The user gets a response with information about permissions and managers of this store according to success or failure

Action	Data	<b>Expected Result</b>
get store staff &	Store_ id = user.owner _stores[i]	Success
permissions information	Store_ id != user. owner stores[i]	Failure – the user is not a store owner

### Use-case 2.4.12: answer users questions

1. Actor: User

**2. Precondition :** The user is a store manager, the user is a manager of this specific store, the user is logged in, the user has the required manager permissions

3. Parameters: Store id, user id

4. Actions:

- The user enters the store id
- The system verifies that the user is logged in
- The system verifies that the user has the required manager permissions
- The manager gets a response with users questions about this store according to success or failure
- The user answers the question
- The system notifies the user about his question response
- The system changes the status of this question

Action	Data	<b>Expected Result</b>
	Store_ id = user. manager _stores[i] &	Success
	user.permissions.contains(answering_questions)	
answer users	Store_id != user.manager_stores[i] &	Failure – the user
questions	!user.permissions.contains(answering_questions)	does not have
		the required
		permissions

### Use-case 2.4.13 : get store purchases history

- 1. Actor: User
- **2. Precondition**: The user is a store manager, the user is a manager of this specific store, the user is logged in, the user has the required manager permissions
- 3. Parameters: Store id, user id
- 4. Actions:
  - The user enters the store id
  - The system verifies that the user is logged in
  - The system verifies that the user has the required manager permissions
  - The user gets a response with purchases history of this store according to success or failure

Action	Data	<b>Expected Result</b>
	Store_ id = user. manager _stores[i] & user.permissions.contains(access_puchases)	Success
get store purchases history	Store_ id != user.manager_stores[i] & !user.permissions.contains(access_puchases)	Failure – the user does not have the required manager permissions

### Use-case 2.6.1: close a store permanently

- 1. Actor: User
- **2. Precondition :** The user is an admin, the user is logged in, the store exists in the system
- 3. Parameters: Store id, user id
- 4. Actions:
  - The user enters the store id
  - The system verifies that the user is logged in
  - The system verifies that the user is an admin
  - The system verifies that the store exists
  - The system closes the store
  - The system notifies the store's managers and owners
  - The system cancel all appointments of managers and owners of the store
  - The user gets a response according to success or failure

Action	Data	Expected Result
	Store_ id exists	Success
close a store permanently	Store_id does not exists	Failure – the store does not
		exist

#### Use-case 2.6.2: remove user

1. Actor: User

**2. Precondition**: The user is an admin, the admin is logged in, the remove\_user exists in the system, the remove\_user is not an admin

3. Parameters: Remove\_user id, user id

4. Actions:

• User enters the remove user id

• The system verifies that the user is logged in

• The system verifies that the user is an admin

• The system verifies that the remove\_user id exists

The system deletes the remove\_user from the system

The system deletes all the remove\_user appointments

 The system removes all the stores who were created by this remove\_user (use-case 2.6.1)

• The user gets a response according to success or failure

Action	Data	Expected Result
remove user	Remove_user_ id exists	Success
	Remove_user_ id does not	Failure – the user does not
	exist	exist

# Use-case 2.6.3: answer users complain

Actor: user

**2. Precondition :** The user is an admin, the admin is logged in

3. Parameters: User id

4. Actions:

• User enters the user id

• The system verifies that the user is logged in

• The system verifies that the user is an admin

• The user gets the complains of the users

• The user answers the complain

• The system notifies the complaint\_user about user's answer

• The system change complain status

• The user gets a response according to success or failure

Action	Data	<b>Expected Result</b>
	User_ id = Admins[i].id	Success
answer users complains	!Admins.contains(User_id)	Failure – the user is not an
		admin

### Use-case 2.6.4.1: get store purchases history

1. Actor: User

2. Precondition: The user is an admin, the admin is logged in

3. Parameters: User id, store id

4. Actions:

• User enters the user id

• User enters the store id

• The system verifies that the user is logged in

• The system verifies that the user is an admin

 The user gets a response with purchases history of this specific store according to success or failure

Action	Data	<b>Expected Result</b>
	User_ id = Admins[i].id &	Success
	Store_id = Stores[i]	
get store purchases history	Admins.contains(User_id)	Failure – the store does not
	&	exist
	!Stores.contains(store_id)	

### Use-case 2.6.4.2 : get user purchases history

1. Actor: User

2. Precondition: The user is an admin, the admin is logged in

3. Parameters: User id, purchase\_user id

4. Actions:

• User enters the user id

• User enter the purchase\_user id

• The system verifies that the user is logged in

The system verifies that the user is an admin

• The user gets a response with purchases history of this specific purchase\_user according to success or failure

Action	Data	<b>Expected Result</b>
	User_ id = Admins[i].id &	Success
get user purchases	Purcahse_user_id = Users[i].id	
history	Admins.contains(User_id) &	Failure – the user does
	!Users.contains(purchase_user_id)	not exist

### Use-case 2.6.5 : get system statistics

1. Actor: User

**2. Precondition :** The user is an admin, the admin is logged in

3. Parameters: User id

### 4. Actions:

- User enter the user id
- The system verifies that the user is logged in
- The system verifies that the user is an admin
- The user gets a response with system statistics according to success or failure

Action	Data	Expected Result
	User_ id = Admins[i].id	Success
get system statistics	!Admins.contains(User_id)	Failure – the user is not an
		admin