**1.1: User Initializes the System  
Actor:** Any User  
**Precondition:**

* There exists a System Manager in the System
* The System is connected to the External Payment System

**Post Condition:** The System presents the possible actions the user can perform within the system **Parameters:** None **Actions:**

1. The user initializes the system
2. If the preconditions are satisfied, the user is presented with the home page as a guest
3. Otherwise a message is presented explaining that the system is unavailable at the moment and the program terminates

**Positive:** the user opens the system. The system successfully verifies that there exists a system manger and that the payment system is available. The user is identified as a guest and can perform the actions defined for guest users.

**Negative:** The user opens the system. The System can not find a system manager or verify that the payment system is available. The user is notified of the issue and the system closes.

**5.1: Store manager performs a management action  
Actor:** Store Manager  
**Precondition:**

* The Store Manager has been granted permission by the store owner to perform the action
* Additionally, the same preconditions that are stated for the Store Owner performing the action must hold

**Post Condition:** the same postconditions that are stated for the Store Owner performing the action must hold **Parameters:** same as parameters stated for the Store Owner performing the same action **Actions:**

1. If the Store Manager has been granted permission, then the same as the actions stated for the Store Owner performing the same action
2. Otherwise, the system presents a “Permission Denied” message

**Positive:** the store manager attempts to perform an action that an owner of the store has granted him permission to perform. The action completes successfully (as defined for store owners)

**Negative:** the store manager attempts to perform an action that he has not been granted permission to perform. The store manager is informed that permission has been denied.

**6.4: System Manager receives transaction history of a buyer or store  
Actor:** System Manager  
**Precondition:**

* The Entity (Buyer/ Store) exists in the system

**Post Condition:** All transactions pertaining to the entity are presented to the System Manager **Parameters:** the Entity **Actions:**

1. The System manager selects the entity of interest
2. The system presents the list of transactions (Buyer’s info, payment method, time of purchase, items, pricings, Store’s info)

**Positive:** The system manager selects a subscribed user. The system successfully verifies the existence of said user. The user’s transaction history is presented to the system manager.

**Negative:** The System Manager selects a subscribed user. The system can not identify the user in the system. The system informs the system manager of the issue and allows him to select another user.

**7: Payment**

**Actor:** The System, External Payment System (EPS)  
**Precondition:**

* Payment information for the purchase has been provided
* The items in the System Shopping Cart are available in the respective stores

**Post Condition:** All transactions pertaining to the entity are presented to the System Manager **Parameters:** Total Price, Payment info  **Actions:**

1. The System provides the EPS with the payment info
2. The EPS notifies the System whether the payment was successful or not

**Positive:** The System provides the EPS with the payment info. The EPS charges the appropriate amount and reports back to the system that the transaction was successful.

**Negative:** The System provides the EPS with invalid payment info. The EPS reports back to the system that the transaction could not be completed.