**Acceptance Test**

**Systems I:**

| Use Case  Number | Scenario | Pre-Condition | Post-Condition | Expected Result |
| --- | --- | --- | --- | --- |
| 1.1.a: Opening the Trading System | Attempting to boot the trading system in a normal manner. | The system is inactive | 1. The system is connected to payment and supply services.  2. The system will follow the integrity rules.  3. The system will have at least one system manager. | Success: Successfully opened the system without any errors.  proper trading system  👍 |
| 1.1.b: | Attempting to boot the trading system when there is no configured system manager |  | The system contains the new service | Failed: System does not have any system managers! System needs at least one manager to boot properly.👍 |

| 1.2.1.a: Adding an external Service | Adding an external service. |  | The system contains the new service | Success: Successfully added an external service. 👍 |
| --- | --- | --- | --- | --- |
| 1.2.1.b | Adding an external service that already exists |  | The system contains the existing service | Failed: External service already exists in the system!👍 |

| 1.2.2.a: Altering an external service | Altering an external service. |  | The service was updated. | Success: Successfully altered an external service. 👍 |
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| 1.2.2.b | Altering an external service that doesn’t exist |  |  | Failed: External Service invalid or doesn’t exist 👍 |

| 1.2.3.a: Removing an external Service | Removing an external service. |  | service is not available in the system. | Success: Successfully removed an external service. 👍 |
| --- | --- | --- | --- | --- |
| 1.2.3.b | Attempting to remove an external service that doesn’t exist. |  | service is not available in the system. | Success: Prompt that the service doesnt exist. 👍 |

| 1.3.a: Payment | Attempting to pay for an order | 1. user is connected to the system.  2. user is in the middle of use-case 2.5. | user’s account is charged with the given price. | Success: Confirmation that the payment was successful 👍 |
| --- | --- | --- | --- | --- |
| 1.3.b | Attempting to pay for an order but the payment external service fails to validate the purchase | 1. user is connected to the system.  2. user is in the middle of use case 2.5.  3. Price to charge > 0. | user’s account is not charged. | Failed: Failed to perform purchase!  👍 |

| 1.4.a: Supply | Forwarding an existing order to the delivery services with the corresponding details and target location |  |  | Success: Confirmation that the package was received by the customer successfully  👍 |
| --- | --- | --- | --- | --- |
| 1.4.b: | Forwarding an order that the user doesn't exist |  |  | Failed: Delivery Service unable to forward the order as user credentials invalid or user doesn’t exist! 👍 |
| 1.4.c | Forwarding an order of a package that doesn’t exist |  |  | Failed: Delivery Service unable to forward the order as package doesn’t exist! 👍 |
| 1.4.d | Forwarding an order to a target location where the delivery service does not provide service to. |  |  | Failed: Delivery Service unable to forward the order as delivery service doesn’t provide service to provided location of delivery! 👍 |

| 1.5.a: Show Notification for logged in user | Sending a notification to a user who is currently logged in to the system | User is logged in. |  | Success: A notification was sent to a logged in user. |
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| 1.5.b: | Attempting to show a notification to a user who is not logged in | - | member’s notification is saved in the system. | Failed: unable to show the notification to the user. |

| 1.6: Show notifications for returning user | Sending a notification to a user who is not logged in, so the system stores the notification in the user’s notification history. The user logs back in and is able to see the notification that they missed | members received a notification while being logged off. | There are no new notifications to show the user. | Success: The returning user is able to see their missed notifications |
| --- | --- | --- | --- | --- |

**USERS II:**

| **Use Case**  **Number** | **Scenario** | **Pre-Condition** | **Post-Condition** | **Expected Result** |
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| 2.1.1.a: Entering the Trading System | Entering the site and getting a personal shopping cart. | - | a. The guest is connected to the system  b. The guest has an empty shopping cart. | Success: Session successfully started! |

| 2.1.2.a: Guest Leaving the Trading System | Guest leaves the shopping site. Their shopping cart is not saved. | guest is connected to the system | The guest’s shopping cart is discarded. | Success: Session Ended successfully! Discarded guest’s shopping cart. |
| --- | --- | --- | --- | --- |

| 2.1.3.a: Guest Registration to the Trading System | The user tries to register and succeeds. | Guest is connected to the system. | New user is registered in the system with the given user credentials. | Success: the user has successfully registered to the system! |
| --- | --- | --- | --- | --- |
| 2.1.3.b: | Entered user credentials are not valid. | - |  | Failed: Failed to register new user, credentials not valid! |

| 2.1.4.a: Guest Login to the Trading System | The guest enters a valid username and password. | guest is connected to the system. | The guest is logged as the member with the given user credentials. | Success: user successfully logged in! |
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| 2.1.4.b: | User credentials are not valid | - |  | Failed: username or password are not valid! |

| 2.2.1.1.a: User Receives Information about Stores | User requests from the system for information about the stores in the system | User is connected to the system. |  | Success: User successfully received information regarding stores requested. |
| --- | --- | --- | --- | --- |
| 2.2.1.2.a: User Receives information Regarding Products in Stores | User requests to see info regarding products in a store | User is connected to the system. |  | Success: User successfully received information regarding products of the requested store |
| 2.2.1.2.b: | User request to see info regarding products with wrong store credentials | - |  | Failed: Failed to retrieve information. Store credentials not valid |

| 2.2.2.1.a: Searching for products | User Searches for a products Using Search parameters and Filters. | User is connected to the system. |  | success |
| --- | --- | --- | --- | --- |
| 2.2.2.1.b | No products that pass the filters. | User is connected to the system. | - | Success: empty list. |
| 2.2.2.2.a: Searching for Products in specific store | User is searching for products in a specific store using filters | User is connected to the system. |  | success: he gets the products |
| 2.2.2.2.b | store identifier doesnt exist | User is connected to the system. | - | success: prompt the user that the store identifier is invalid |
| 2.2.2.2.c | no products pass the filters | - | - | success: empty list |

| 2.2.3.a: Adding a Product to the Store Basket | user adds a product to the shopping basket in an existing store | user is connected to the system | The specified amount of products with the given product identifier were added to the user’s basket for the store with the given store identifier. | success |
| --- | --- | --- | --- | --- |
| 2.2.3.b | basket of store with given store identifier doesnt exist | user is connected to the system | A new shopping basket is created for the store with the given store identifier, and the specified amount of products with the given product identifier were added to that basket. | success: no items added |
| 2.2.3.c | amount is invalid | user is connected to the system | - | success: no items added |
| 2.2.3.d | store identifier is invalid | user is connected to the system | - | success: no items added |
| 2.2.3.e | product identifier is invalid | user is connected to the system | - | success: no items added |

| 2.2.4.a: Observing the Shopping Cart | A guest is attempting to observe their shopping cart. | user is connected to the system |  | Success: The system shows the guest their shopping cart. |
| --- | --- | --- | --- | --- |
| - | A guest is attempting to view another guest’s shopping cart. | user is connected to the system | - | Success: The system prevents the guest from viewing another guest’s shopping cart. |
| 2.2.4.b | A guest is requesting to view their shopping cart numerous times, thus effectively deploying a DDoS attack | user is connected to the system | - | Failure: The system stops responding to other users. |

| 2.2.4.a: Removing an Item from the Shopping Cart | A member attempts to remove an item that is found in their shopping cart. | user is connected to the system | The quantity of the item is reduced by 1. If the quantity is 0, we will remove the item. | Success: The member has successfully removed an item that is found in his cart |
| --- | --- | --- | --- | --- |
| 2.2.4.b: | product identifier is not valid. | user is connected to the system | - | Failed: The system raises an error. |
| 2.2.4.c: | amount to remove is not valid. | user is connected to the system | - | Failed: The system raises an error. |
| 2.2.5.a:  Accessing Payment External Service | A member attempts to make a purchase for their shopping cart. | user is connected to the system  user has a non-empty shopping cart. | reduce amount of products in stock for each product purchased by the amount purchased.  the user is charged with the order’s price according to the discount and purchase policy.  purchase info is logged in the system. | Success: Confirmation that the purchase was successful. |
| 2.2.5.b | One of the stores is closed \ does not exist in the system. | user is connected to the system  user has a non-empty shopping cart. | - | Failure: The system raises an error. |
| 2.2.5.c | Insufficient amount of products. | user is connected to the system  user has a non-empty shopping cart. | - | Failure: The system raises an error. |
| 2.2.5.d | Store purchase policy is not met. | user is connected to the system  user has a non-empty shopping cart. | - | Failure: The system raises an error. |
| 2.2.5.e | External payment service fail. | user is connected to the system  user has a non-empty shopping cart. | - | Failure: The system raises an error. |
| 2.3.1.a: Logout | A logged in member is trying to log out of the system | member is logged in the system. | member shopping cart has been saved.  user is now a guest and has an empty shopping cart. | Success: A logged in member has successfully logged out of the system |

| 2.3.2.a: Opening Store | A logged in member is attempting to open a store with legal details (proper location, proper name). | member is logged in. | new store is created, and member is its owner. | Success: Successfully opened a store |
| --- | --- | --- | --- | --- |
| 2.3.2.b | store credentials are not valid) | member is logged in to the system. | - | Failed: The system raises an error |
| 2.4.1.a: Storage Management - Add Product | A store owner |manager requests to add a product to their store. | store owner|manager is logged in, store identifier is valid, store owner|manager is owner|manager of store with the given store identifier, store manager has appropriate permissions. | product is added to store with given store identifier. | Success: the store now supports the sales of the new product |
| 2.4.1.b | product credentials are not valid. | store owner|manager is logged in, store identifier is valid, store owner|manager is owner|manager of store with the given store identifier, store manager has appropriate permissions. | - | Failure: The system raises an error. |
| 2.4.1.c | amount of product is invalid. | store owner|manager is logged in, store identifier is valid, store owner|manager is owner|manager of store with the given store identifier, store manager has appropriate permissions. | - | Failure: The system raises an error. |

| 2.4.2.1-a changing store purchase policy | A store owner changes the purchase policy to reject all purchases above 10000$ | store owner owns the store with the given store identifier.  store owner is connected to the system.  store with the given store identifier exists and is open | purchase policy in the store is the given policy. | Success: the purchase policy of the store is successfully changed, and rejects all purchases above 10000$ |
| --- | --- | --- | --- | --- |
| 2.4.2.1-b | A store owner changes the purchase policy with corrupted purchase policy information | store owner owns the store with the given store identifier.  store owner store owner is connected to the system.  store with the given store identifier exists and is open | purchase policy in the store remains unchanged | Success: the purchase policy of the store is not changed, and an error is raised. |
| 4.2.1-c | A store manager changes the purchase policy to reject all purchases above 10000$ | store manager manages the store with the given store identifier.  store manager is connected to the system.  store with the given store identifier exists and is open  store manager has permissions to change purchase policy at the store with the given store identifier. | purchase policy in the store is the given policy. | Success: the purchase policy of the store is successfully changed, and rejects all purchases above 10000$ |
| 4.2.1-d | A store manager changes the purchase policy with corrupted purchase policy information | store manager manages the store with the given store identifier.  store manager is connected to the system.  store with the given store identifier exists and is open  store manager has permissions to change purchase policy at the store with the given store identifier. | purchase policy in the store remains unchanged | Success: the purchase policy of the store is not changed, and an error is raised. |
| 2.4.2.2-a: changing store purchase types | A store owner is attempting to change the store purchase type of their store. | store owner owns the given store. | purchase types in the store are the given types. | Success: Successfully changed the store purchase type. |
| 4.2.2-b | A store manager with no privileges is attempting to change the store purchase type. | - | - | Failed: Failed to change the store purchase type as the store manager does not have the necessary permissions |
| - | A store owner is attempting to change the store purchase types of an already closed store. | - | - | Failed: Failed to change the store purchase type of an already closed store |

| 2.4.3.a: Appointing another Store Owner | A store owner is attempting to appoint another member as a store owner for their store. | 1. store owner is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner owns the store with the given identifier. | Store owner promotion proposal is sent to the member with the given member identifier. | Success: The member is appointed to a Store owner. The appointing Store Owner is set as their parent. |
| --- | --- | --- | --- | --- |
| 2.4.3.b: | A store owner is attempting to appoint another store owner with invalid member credentials. | - |  | Failed: Proposed store owner credentials invalid! |
| 2.4.3.c: | A store owner is attempting to appoint a store owner of a member who is already a store owner for this store | - |  | Failed: Proposed store owner is already a store owner! |
| 2.4.3.a: Accepting promotion to store owner | A member that received a promotion to become a store owner accepts the promotion. | 1. member is logged in the system.  2. member got offered by a store owner with the given store owner identifier to be store owner of store with given store identifier.  3. member is not a store owner of the store with the given store identifier.  4. a store with the given store identifier exists and is open.  5. store owner with the given store identifier owns the store with the given store identifier. | 1. member is now a store owner of the store with the given store identifier.  2. store owner with the given store owner identifier is the one who hired the member.  3. store owner with the given  store owner identifier got sent a notification stating the member accepted the promotion. | Success: Successfully promoted a member to a store owner! |
| 2.4.3.b: | A member that received an offer to be promoted to a store owner rejects the offer. | - | the store owner with the given store owner identifier got sent a notification stating the member rejected the promotion. | Failed: member rejected the offer! |
| 2.4.6.a: Appointing a Store Manager | A Store Owner attempts to appoint a valid member as a new Store Manager. | 1. store owner | store manager is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner | store manager owns | manages the store with the given identifier.  4. store manager has permissions of adding store managers to the store with the given store identifier. | manager owner promotion proposal is sent to the member with the given member identifier. | Success: The member is appointed to a Store Manager. The appointing Store Owner is set as their parent. |
| 2.4.6.b: | A Store Owner attempts to appoint an invalid member as a new Store Manager. | - |  | Failed: Proposed store manager credentials invalid! |
| 2.4.6.c: | A Store Owner attempts to appoint a member as a new Store Manager who is already a store owner/manager for the store. | - |  | Failed: Proposed store manager is already a store owner/manager for the store! |
| 2.4.6.d: | A Store Owner attempts to appoint a valid member as a new Store Manager with invalid manager permissions. | - |  | Failed: Proposed Manager Permissions for new Manager invalid! |
| 2.4.6.a: Accepting promotion to store manager: | A member that received a promotion to become a store manager accepts the promotion. | 1. member is logged in the system.  2. member got offered by a store owne | store managerr with the identifier to be store manager of store with given store identifier and have the given permissions.  3. the given manager permissions are valid.  4. member is not a store owner | store manager of the store with the given store identifier.  5. store with the given store identifier exists and is open.  6. store owner | store manager with the given identifier  owns | manages the store with the given store identifier. | 1. member is now a store manager of the store with the given store identifier, and has the given permissions.  2. store owner | store manager with the given identifier is the one who hired the member.  3. store owner | store manager with the given identifier got sent a notification stating the member accepted the promotion. | Success: Successfully accepted a promotion to store manager! |
| 2.4.6.b: | A member that received a promotion to become a store manager rejects the promotion. | - | store owner | store manager with the given identifier got sent a notification stating the member rejected the promotion. | Failed: member rejected the offer! |

| 2.4.7.a: Change Store Manager Permissions | The member that appointed the Store Manager is attempting to change their permissions. | 1. store owner | store manager is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner | store manager is an owner | manager of the store with the given store identifier.  4. store manager has permission to change store manager permissions to the store managers he hired for store with the given store identifier. | store manager permissions were changed to be the given manager permissions. | Success: The Manager’s permissions were changed. |
| --- | --- | --- | --- | --- |
| 2.4.7.b: | A store owner/manager is attempting to change store manager permissions of a store manager with invalid credentials | - |  | Failed: Store Manager credentials invalid or doesn’t exist! |
| 2.4.7.c.1: | A store owner/manager attempts to change the store manager permissions of a store manager they didn’t appoint. | - |  | Failed: Store owner/manager attempting to change the permissions of a store manager that wasn’t appointed by them! |
| 2.4.7.c.2: | A Store Manager is attempting to change their own permissions. |  |  | Failed: Store manager can not change their own permissions! |
| 2.4.7.d: | A store owner/manager is attempting to change store manager permissions with invalid permissions | - |  | Failed: Store Manager permissions invalid! |
| 2.4.9.a: Closing a Store | A store owner is attempting to close their store. | 1. store owner is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner is the founder of the store with the given identifier. | 1. The store with the given store identifier is closed.    2.All other store owners | store managers of the store with the given store identifier were sent a notification that the store is closed. | Success: The owner successfully closed his store |

| 2.4.11.a: View Information Regarding Store Employees | An owner is trying to view info regarding employees of a valid store. | 1. store owner | store manager is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner | store manager is an owner | manager of the store with the given identifier.  4. store manager has permissions to view information regarding store employees. |  | Success: The owner successfully viewed the information they seeked |
| --- | --- | --- | --- | --- |
| 2.4.11.b: | An owner is trying to view info regarding employees with invalid store credentials | - |  | Failed: The store credentials are invalid or store doesn’t exist! |
| 2.4.13.a: Getting Information about the Purchases History in a Store | A member is trying to view his purchase history | 1. store owner | store manager is connected to the system.  2. store with the given store identifier exists and is open.  3. store owner | store manager is an owner | manager of the store with the given identifier.  4. store manager has permissions to view information regarding store employees. |  | Success: The member successfully viewed his purchase history |

| 2.6.4.a: Getting information about the purchases history of a member in the system | A logged in system manager requests information regarding the purchase history of a member in the system. | System manager is connected to the system |  | Success: System manager successfully retrieved the requested information. |
| --- | --- | --- | --- | --- |
| 2.6.4.b: | A logged in system manager requests information regarding the purchase history of a member in the system with wrong member credentials | - |  | Failed: User credentials invalid or user doesn’t exist. |
| 2.6.4.a: Getting information about the purchases history in a store | A logged in system manager requests information regarding the purchase history of a store. | System manager is connected to the system |  | Success: the system renders to the member a message stating that he doesn’t have permissions to view information regarding the system. |
| 2.6.4.b: | A logged in system manager requests information regarding the purchase history of a store in the system with wrong store credentials | - |  | Failed: Store credentials invalid or store doesn’t exist. |