Team: Hemang Bansal
Sumit Narang
Suresh Kumar

Title: Instant Grocery Delivery System

Project Summary:

An online marketplace system where consumers can search and order groceries & daily need items across multiple stores in their city and get everything delivered to their doorstep within a day. The local stores can create, maintain and list their product catalogue and item prices in the system. The marketplace operator (Admin) manages the system and handles the delivery requests.

Project Requirements:

Business Requirements				
ID	**Requirement**	**Topic Area**	**Users**	**Priority**
BR-01	Store Managers must register within the system before listing their product catalogue.	Authentication	Store Manager	Critical
BR-02	Consumers must register within the system before ordering an item.	Authentication	Customer	Critical
BR-03	Consumers must order items from local stores within the city limits.	Order Processing	Customer	Critical
BR-04	Consumers must setup their payment details before ordering an item and must pay online.	Payment Processing	Customer	Critical

User Requirements				
ID	**Requirement**	**Topic Area**	**Users**	**Priority**
UR-01	As an Admin I want to view the list of registered users' profiles as soon as it is created so that I can validate and approve them	User Record Maintenance	Admin	High
UR-02	As an Admin I want to search a required user using their User-ID so that I can change their account type or delete their account	User Record Maintenance	Admin	High
UR-03	As an Admin I want to see the list of orders with successfully processed payments so that I can authorize the delivery.	Payment Processing	Admin	High
UR-04	As an Admin I want to generate a report of all orders authorized for delivery with details of items and stores so that I can plan the pickup and delivery of items.	Report Generation	Admin	High
UR-05	As an Admin I want to search for an order using its Order-ID so that I can change the estimated delivery time, remove or add an item to the order, modify item quantity upon customer's request, or cancel the order.	Order Processing	Admin	Medium
UR-06	As a Customer I want to browse the items in different item categories so that I can add them to my cart.	Order Processing	Customer	High

UR-07	As a Customer I want to view my cart details so that I can add new items to the cart, remove items from the cart, change item quantity in the cart so that I can place an order.	Order Processing	Customer	High
UR-08	As a Customer I want to store my payment details such as credit/debit card information to my profile so that I can pay online while placing an order.	User Record Maintenance	Customer	High
UR-09	As a Customer I want to view the order history so that I can see the list of items ordered, their delivery status, or cancel the order.	Order Processing	Customer	High
UR-10	As a Customer I want to checkout the cart items so that I can place the order	Order Processing	Customer	High
UR-11	As a Store Manager I want to maintain product catalogues so that I can add items, delete items and edit item details.	Product Record Maintenance	Store Manager	High
UR-12	A user shall be able to register and login using their email ID	User Record Maintenance	All	High
UR-13	A user shall be able to view and edit their profile details.	User Record Maintenance	All	High

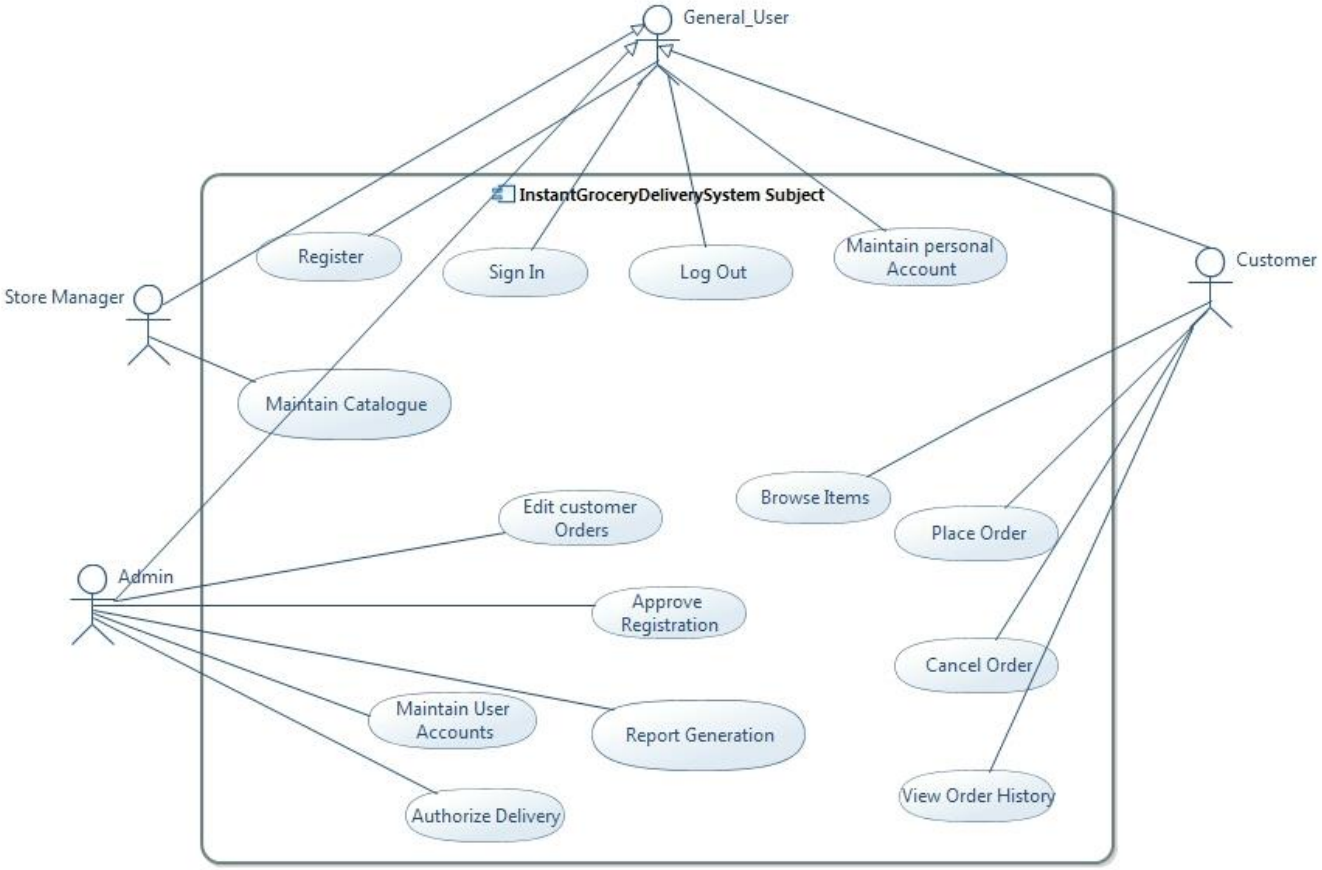
Functional Requirements				
ID	**Requirement**	**Topic Area**	**Users**	**Priority**
FR-01	The system shall provide users an option to register as a customer or store manager only.	User Record Maintenance	Customers, Store Manager	High
FR-02	The system shall an admin to be added only by another admin.	User Record Maintenance	Admin	High
FR-03	The system shall notify the admin about the newly registered users and allow the admin to approve or reject the registrations	User Record Maintenance	Admin	High
FR-04	The system shall process the payment of an order and notify the customer if the payment was successful or not.	Payment Processing	Customer	High
FR-05	The system shall process a refund to customer's account upon cancellation of an order.	Payment Processing	Customer	High
FR-06	The system shall automatically calculate an estimated delivery time based on the address of the customer.	Order Processing	Customer	High
FR-07	The system shall provide customer option to filter and sort items based on item categories, price, brand, stores.	Item Record Maintenance	Customer	Medium
FR-08	The system shall customer a virtual cart where they can add their items.	Order Processing	Customer	High
FR-09	The system shall allow a customer to view and order items only from local stores in their city	Order Processing	Customer	High
FR-10	The system shall notify store managers of items running low in their stock.	Item Record Maintenance	Store Manager	Medium

Non-Functional Requirements				
ID	**Requirement**	**Topic Area**	**Users**	**Priority**
NR-01	The system shall allow passwords which are more than 8 characters long, contain at least one uppercase character, one lowercase character and one special case character.	Security	System	Critical
NR-02	The login functionality shall behave same on Windows, Linux, Mac.	Portability	System	High
NR-03	The system should be restorable in case of failures.	Reliability	System	High
NR-04	The system should display search results of any queries within 5 secs.	Performance	System	High
NR-05	The system should keep the customer data safe from breaches.	Security	System	High

Use Case:

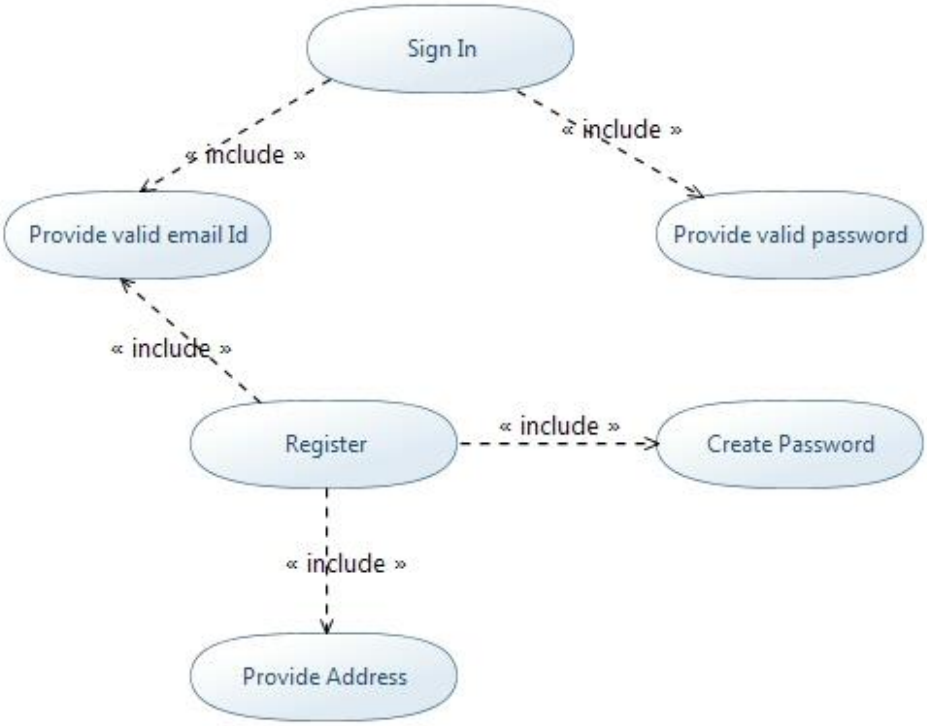
Actors: Customers, Store Managers, Administrators

Use Case Overview:

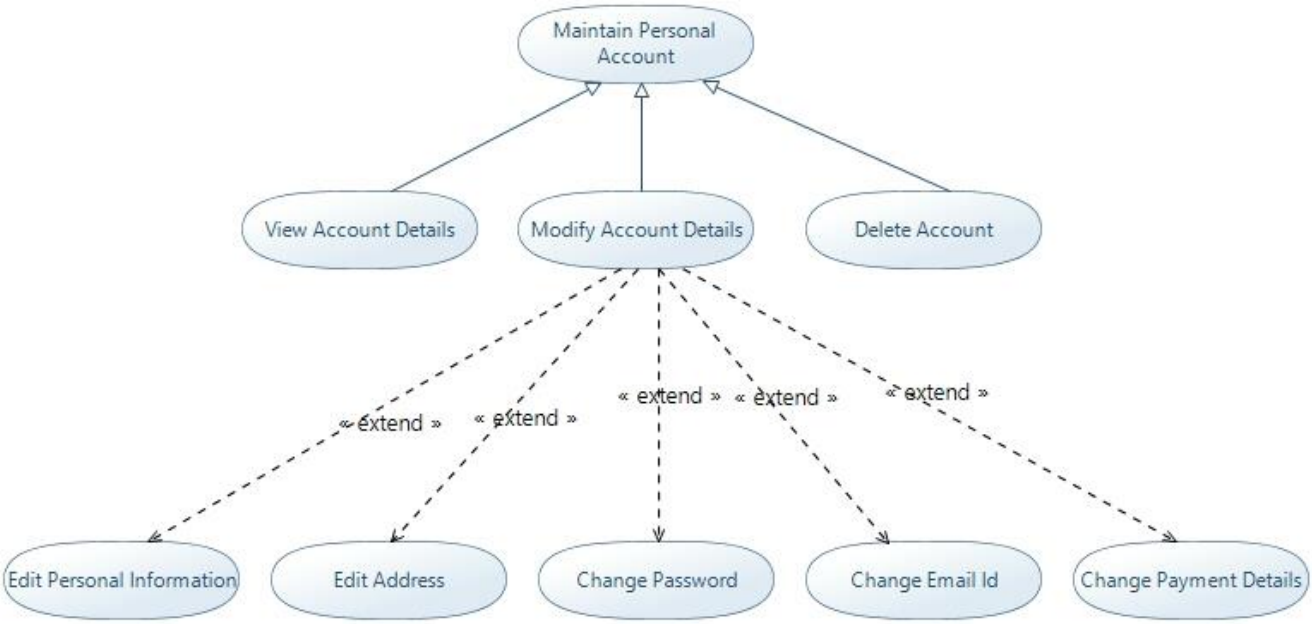


Use Case Sub Diagram:

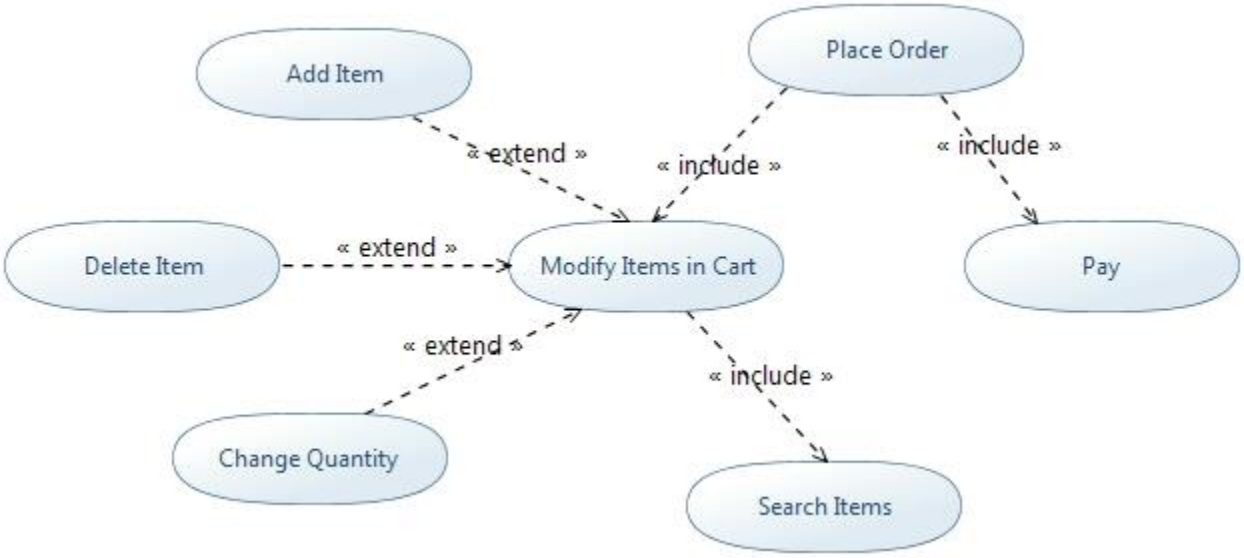
1. Sign in



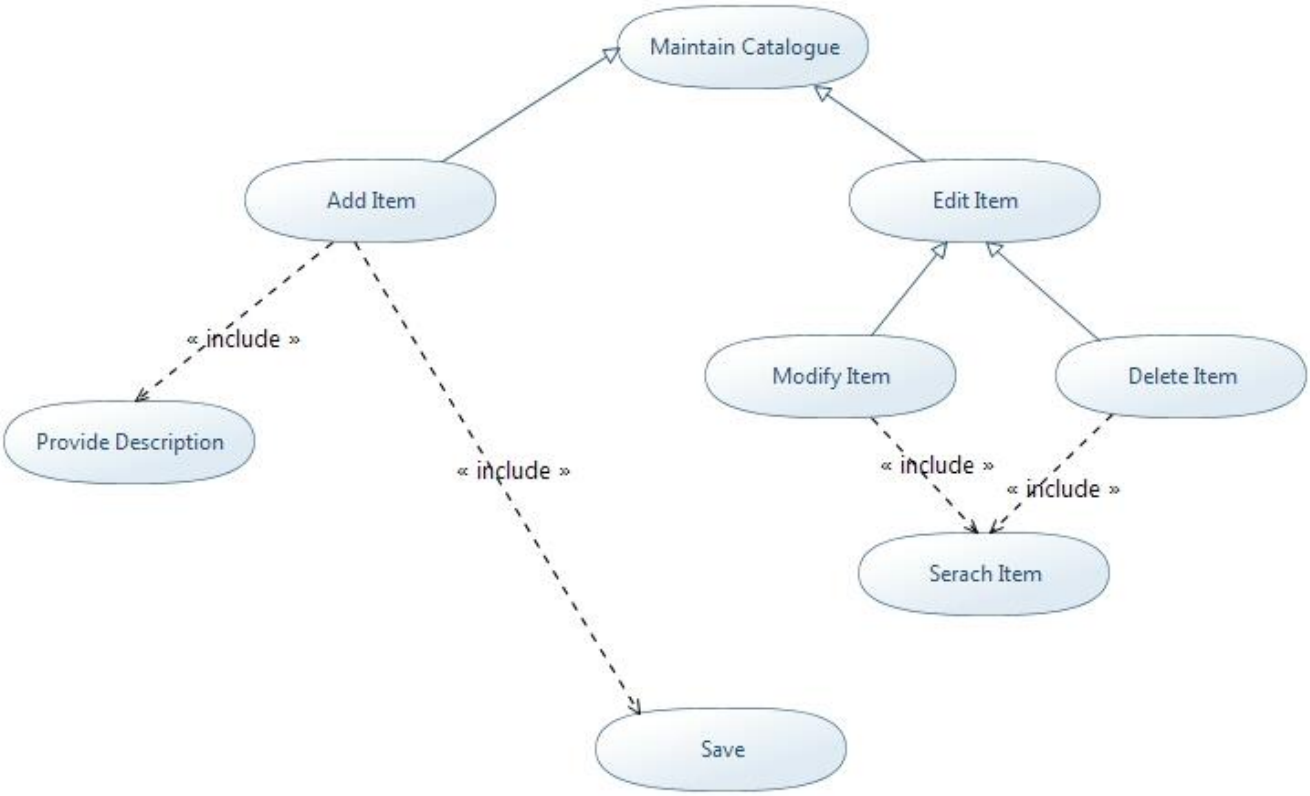
2. Maintain Personal Account



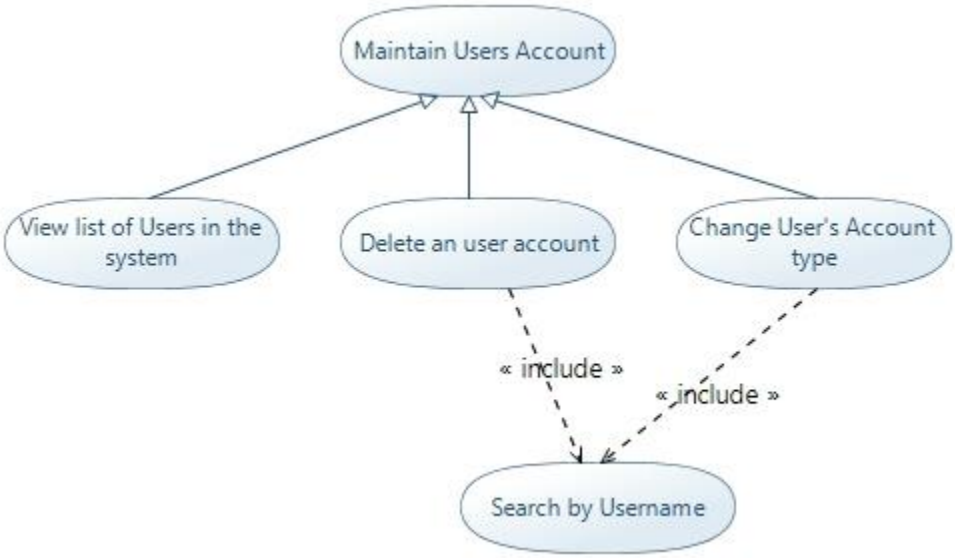
3. Place Order



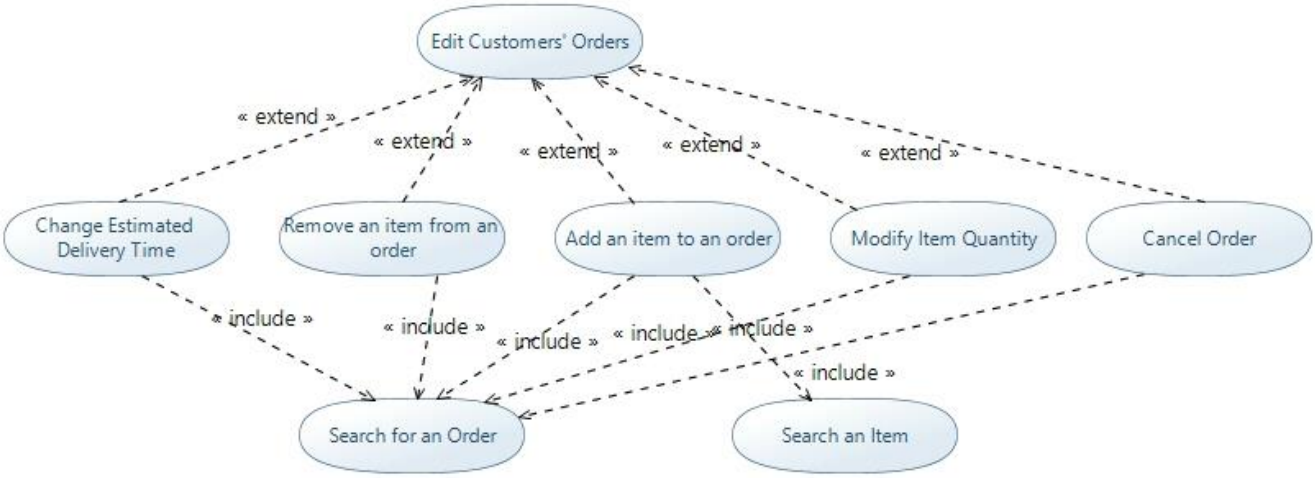
4. Maintain Catalogue



5. Maintain User Accounts



6. Edit Customers' Orders



Use Case Documents:

Use Case List		
Use Case ID	**Prime Actor**	**Use Case Name**
UC-1.1	General User	Register
UC-1.2	General User	Sign in
UC-1.3	General User	Logout
UC-1.4	General User	Maintain Personal Account
UC-1.4.1	General User	View Account Details
UC-1.4.2	General User	Modify Account Details
UC-1.4.3	General User	Delete Account
UC-1.5	Customer	Browse Items
UC-1.6	Customer	Place Order
UC-1.7	Customer	Cancel Order
UC-1.8	Customer	View Order History
UC-1.9	Store Manager	Maintain Catalogue
UC-1.9.1	Store Manager	Add Item
UC-1.9.2	Store Manager	Edit Item
UC-1.10	Admin	Maintain User Accounts
UC-1.10.1	Admin	View List of Users in the system
UC-1.10.2	Admin	Delete a User Account
UC-1.10.3	Admin	Change User Account Type
UC-1.11	Admin	Approve Registration
UC-1.12	Admin	Edit Customer Orders
UC-1.12.1	Admin	Change Estimated Delivery Time
UC-1.12.2	Admin	Remove an Item from an order
UC-1.12.3	Admin	Add an item to an Order
UC-1.12.4	Admin	Change Item Quantity
UC-1.12.5	Admin	Cancel Order
UC-1.13	Admin	Authorize Delivery
UC-1.14	Admin	Report generation

Use Case Documents:

Use Case ID:	UC-1.1	**Created By:**	Sumit Narang
Use Case Name:	Register	**Date Created:**	30-Sep-2016
Description:	Users can register their account using their email id		

Actors:	Customers, Store Managers, Admin		
Pre-Condition:	User does not have account associated with provided email id		
Post-Condition:	User has account associated with provided email id		
Frequency of Use:	Once per email id		
Flow of Event:		**Actor action**	**System response**
	1	Visit the register page	
	2	Provide the valid email id	Check if email id is valid
	3	Confirm the email id	Match the email id's
	4	Create Password	
	5	Confirm Password	Match the passwords
	6	Provide the address	
Exceptions:	1. Email id is invalid 2. Email id's do not match 3. Passwords do not match 4. Provide address		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.2	**Created By:**	Sumit Narang
Use Case Name:	Sign In	**Date Created:**	30-Sep-2016
Description:	Users can log In/Sign In their account		

Actors:	Customers, Store Managers, Admin		
Pre-Condition:	User have account associated with provided email id and not logged in already		
Post-Condition:	User logged in		
Frequency of Use:	Every time sign in		
Flow of Event:		**Actor action**	**System response**
	1	Visit sign In page	
	2	Provide valid email id	
	3	Provide valid password	
	4	Click sign In	Visit the User Account if Credentials matches
Exceptions:	1. Email id not associated with any account 2. Password does not match for given email Id		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.3	**Created By:**	Sumit Narang
Use Case Name:	Log out	**Date Created:**	30-Sep-2016
Description:	User can log out of their account		

Actors:	Customers, Store Managers, Admin		
Pre-Condition:	User is Signed in		
Post-Condition:	User logged out		
Frequency of Use:	Every time log out		
Flow of Event:		**Actor action**	**System response**
	1	Click log out	User is logged Out
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.4.1	**Created By:**	Suresh Kumar
Use Case Name:	View Account Details	**Date Created:**	30-Sep-2016
Description:	Any registered user of the system can view their profile and account type.		

Actors:	Admin, Customers, Store Manager		
Pre-Condition:	User should be logged in to the system.		
Post-Condition:	User successfully views his profile details.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select “My Account”	Displays account details such Name, address, phone, email, payment details.
Variations	None		
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.4.2	**Created By:**	Suresh Kumar
Use Case Name:	Modify Account Details	**Date Created:**	30-Sep-2016
Description:	Any registered user of the system can view their profile and edit the required fields.		

Actors:	Admin, Customers, Store Manager		
Pre-Condition:	User should be logged in to the system.		
Post-Condition:	User successfully edit his profile details.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select “My Account”	Displays account details such Name, address, phone, email, payment details.
	2	Select “Edit Details”	Displays edit boxes to edit fields like name, address, phone, email, payment details and password.

	3	Enter required details and click Save button	Validate the details. Update the account profile. Redisplay updated profile.
Variations	3. User clicks cancel button to undo the changes.		
Exceptions:	1. System displays error message if email is invalid. 2. System displays error message if password is not secure enough.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.4.3	**Created By:**	Suresh Kumar
Use Case Name:	Delete Account	**Date Created:**	30-Sep-2016
Description:	Any registered user of the system can delete his account.		

Actors:	Admin, Customers, Store Manager		
Pre-Condition:	User should be logged in to the system.		
Post-Condition:	User successfully cancels his account.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select “My Account”	Displays account details such Name, address, phone, email, payment details.
	2	Select “Delete My Account”	Display Confirmation message with “Yes” and “No” button.
	3	Select “Yes”	Delete the user and its related data.
Variations	User select No button.		
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.5	**Created by:**	Hemang Bansal
Use Case Name:	Browse Items	**Date Created:**	30-Sep-2016
Description:	Customer can view various items available according to his requirements		

Actors:	Customers		
Pre-Condition:	User is already logged in using its credentials. Store manager has added items to the catalogue.		
Post-Condition:	User has browsed through the items he requires and selected the items needed.		
Frequency of Use:	Option to browse every time customer log in.		
Flow of Event:		**Actor action**	**System response**
	1	Click on the browse tab	
	2	Look for search option	
	3	Enter the item required	Look for items searched in the database
	4	Provide the filters	Arrange items according to user preference
	5	Select the items needed	
	6	Add item to wish list	
Exceptions:	1. Item spelled wrong		

	2. Item not available 3. After applying filter no item is shown
Notes and Issues:	None
Developer notes:	

Use Case ID:	UC-1.6	**Created by:**	Hemang Bansal
Use Case Name:	Place order	**Date Created:**	30-Sep-2016
Description:	Customer can place his order		

Actors:	Customers, admin		
Pre-Condition:	User is logged in User has selected the items he wishes to purchase		
Post-Condition:	User has placed his order		
Frequency of Use:	Every time customer wants to purchase		
Flow of Event:		**Actor action**	**System response**
	1	Customer chooses if he has to place a new order or modify previous order	Take the customer to the chosen page
	2	For a new order customer adds items to his cart	Show the customer the available delivery date and the payment due
	3	To modify his order, customer can edit his previous order	
	4	Customer confirms the selection	Direct to the payment page
	5	For new order customer chooses the delivery time and pays	Validate the payment made and send email for confirmation
	6	For edited order customer pays the remaining amount	Validate the payment and send confirmation
Exceptions:	1. The address of delivery is out of delivery area 2. Payment made is not received		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.7	**Created by:**	Hemang Bansal
Use Case Name:	Cancel order	**Date Created:**	30-Sep-2016
Description:	Customer can cancel his order		

Actors:	Customers
Pre-Condition:	User is Signed in All the orders of the customer are listed
Post-Condition:	User has cancelled his order

Frequency of Use:	Once in a while		
Flow of Event:		**Actor action**	**System response**
	1	Customer chooses the cancel order option	Take the customer to the chosen page
	2	Customer selects the order he wishes to cancel	
	3	Customer confirms his selection	
	4	Customer chooses the refund method	Confirms the cancellation and sends the email
Exceptions:	Cancellation is not possible for orders already dispatched		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.8	**Created by:**	Hemang Bansal
Use Case Name:	View order history	**Date Created:**	30-Sep-2016
Description:	Customer can view his order history		

Actors:	Customers		
Pre-Condition:	User is logged in		
Post-Condition:	User has viewed his order history		
Frequency of Use:	Every time customer wants to buy an item purchased before or needs a receipt for previous orders		
Flow of Event:		**Actor action**	**System response**
	1	Customer chooses to view his previous orders	Take the customer to the chosen page
	2	Customer selects the order he wishes to review	Show the customer the details for the order
	3	Customer selects if he wishes to re-order or any complaints	
	4	Customer confirms the selection	Direct to the payment page
	5	For new order customer is taken to place order page	Validate the payment made and send email for confirmation
	6	For complaints customer fills in the application	
Exceptions:	1. The order customer wishes to see is not updated in history yet		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.9.1	Created By:	Sumit Narang
Use Case Name:	Add Item	Date Created:	
Description:	Store Manager Can add item to Store Catalogue		

Actors:	Store Manager		
Pre-Condition:	Store Manager Signed In		
Post-Condition:	Item has been added to Catalogue		
Frequency of Use:	Once during adding an item		
Flow of Event:		Actor action	System response
	1	Click add Item	System will prompt for Item description
	2	Add Item description	
	3	Click save	System will save item to catalogue
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.9.2	Created By:	Sumit Narang
Use Case Name:	Delete Item	Date Created:	
Description:	Store Manager can delete item from Store Catalogue		

Actors:	Store Manager		
Pre-Condition:	Store Manager Signed In		
Post-Condition:	Item has been deleted from Catalogue		
Frequency of Use:	Once during adding an item		
Flow of Event:		Actor action	System response
	1	Click delete Item	System will prompt for Item number
	2	Provide Item number	
	3	Click save	System will delete item from catalogue
Exceptions:	1. There is no such item associated with provided item number		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.9.3	Created By:	Sumit Narang
Use Case Name:	Modify Item	Date Created:	
Description:	Store Manager can make changes to item in store Catalogue		

Actors:	Store Manager		
Pre-Condition:	Store Manager Signed In		
Post-Condition:	Changes have been made to the item description		
Frequency of Use:	Once during adding an item		
Flow of Event:		Actor action	System response
	1	Click modify Item	System will prompt for Item number
	2	Provide Item number	System will open description window for Item for changes
	3	Make changes	
	4	Click save	System will save the changes for the item

Exceptions:	1. There is no such item associated with provided item number
Notes and Issues:	None
Developer notes:	

Use Case ID:	UC-1.10.1	**Created By:**	Suresh Kumar
Use Case Name:	View list of users in the system	**Date Created:**	30-Sep-2016
Description:	Admin can view list of all registered users.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system.		
Post-Condition:	Admin successfully views all registered users list.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select “View Users List”	Displays a list of all users and their account type.
Variations	None		
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.10.2	**Created By:**	Suresh Kumar
Use Case Name:	Delete a User Account	**Date Created:**	30-Sep-2016
Description:	Admin can view list of all registered users, search for a user and delete his account.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system.		
Post-Condition:	Admin successfully deletes a user account.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select “View Users List”	Displays a list of all users and their account type.
	2	Search the user in the search box	Displays the user details and account type.
	3	Select “Delete User”	Display confirmation with “Yes” and “No” button
	4	Click Yes button	Delete the user account and all its related data.
Variations	3. Admin clicks No to take no action.		
Exceptions:	1. User is not found		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.10.3	**Created By:**	Suresh Kumar
Use Case Name:	Change User Account Type	**Date Created:**	30-Sep-2016
Description:	Admin can view list of all registered users, search for a user and change its account type.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system.		
Post-Condition:	Admin successfully changes the account type of a user.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select "View Users List"	Displays a list of all users and their account type.
	2	Search the user in the search box	Displays the user details and account type.
	3	Select "Change Type"	Displays option with account types as "Admin", "Buyer" and "Seller"
	4	Select an account type and click confirm	The user account type is changes. User permissions are updated accordingly.
Variations	4. Admin clicks cancel to take no action.		
Exceptions:	2. User is not found		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.11	**Created By:**	Suresh Kumar
Use Case Name:	Approve Registration	**Date Created:**	30-Sep-2016
Description:	Admin can view list of all registered users with pending registration approval. Admin can then grant or deny registration approval.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system.		
Post-Condition:	Admin successfully approves the registration of a user. Approved users can login to the system.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select "View Pending Approval Users List"	Displays a list of all users and their account type and details.
	2	Clicks Approve Registration button	Change the status of user from "Pending Approval" to "Approved".
Variations	5. Admin clicks deny registration.		
Exceptions:	None		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.12.1	**Created By:**	Suresh Kumar
Use Case Name:	Change Estimated Delivery Time	**Date Created:**	30-Sep-2016
Description:	Admin can search for a placed order to edit the estimated delivery Date and Time. Customer is notified about the new delivery date and time.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system. Order should have been placed with processed payment.		
Post-Condition:	Admin successfully changes the estimated delivery time of an order.		
Frequency of Use:	As required by user		
Flow of Event:		**Actor action**	**System response**
	1	Select "Approved Orders List"	Display a list of approved orders.
	2	Search for an order.	Display Order details such as customer name, address, list of items, their price, quantity and estimated delivery date & time.
	3	Edit the estimated delivery date & time and click save button	Update the estimated delivery date & time of the order. Display updated order details. Notify the customer about the new delivery date & time.
Variations	3. User clicks cancel button to undo the changes. System displays the original order details.		
Exceptions:	1. System displays an error message if the searched order is not found 2. System displays an error message if date and time format entered is wrong.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.12.2	**Created By:**	Suresh Kumar
Use Case Name:	Remove an Item from an order	**Date Created:**	30-Sep-2016
Description:	Admin can search for a placed order to remove an item upon customer's request.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system. Customers should have requested to remove to an item from their order via email. Order should have been placed with processed payment. Order should not have shipped.		
Post-Condition:	Admin successfully removes an item from an order.		
Frequency of Use:	Daily upon customers' request.		
Flow of Event:		**Actor action**	**System response**
	1	Select "Approved Orders List"	Display a list of approved orders.

	2	Search for an order.	Display Order details such as customer name, address, list of items, their quantity & price and estimated delivery date & time.
	3	Click on remove item button next to each required items and click save button	The items are removed from the order. Display updated order details. Notify the customer about the order changes. Process the refund for removed item.
Variations	3. User clicks cancel button to undo the changes. System displays the original order details.		
Exceptions:	1. System displays an error message if the searched order is not found 2. System displays an error message if order has shipped. 3. System notifies admin if refund cannot be processed.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.12.3	**Created By:**	Suresh Kumar
Use Case Name:	Add an Item to an order	**Date Created:**	30-Sep-2016
Description:	Admin can search for an order to add a new item upon customer's request. Customer is notified about the order changes and charged for the newly added item using the payment information of the order.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system. Customers should have requested to add to a new item to their order via email. Order should have been placed with processed payment. Order should not have shipped.		
Post-Condition:	Admin successfully add a new item to an order.		
Frequency of Use:	Daily upon customers' request.		
Flow of Event:		**Actor action**	**System response**
	1	Select "Approved Orders List"	Display a list of approved orders with search bar.
	2	Search for an order.	Display Order details such as customer name, address, list of items, their quantity & price, estimated delivery date & time.
	3	Click on "add a new item" button	Display a search page to search for an item.
	4	Search for an item.	Display the searched item.
	5	Enter item quantity and Click "add to order" button	Adds the item to the current order. Redisplays the order details with newly added item.
	6	Click Save button	Update the order details to the database. Notify the customer about the order changes. Use the payment details for the current order to process the payment of newly added items. Hold shipment till payment is processed.

			Notify admin to authorize delivery on successful processing of payment.
Variations	6. User clicks cancel button to undo the changes.		
Exceptions:	1. System displays an error message if the searched order is not found 2. System displays an error message if item searched is not found. 3. System displays an error message if payment cannot be processed for the newly added item. 4. System displays an error message if order has shipped.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.12.4	**Created By:**	Suresh Kumar
Use Case Name:	Change Item Quantity	**Date Created:**	30-Sep-2016
Description:	Admin can search for an order to change the quantity of an item upon customer's request. Customer gets a refund if item quantity is decreased. Customer is charged the required amount if the item quantity is increased.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system. Customers should have requested to add to a new item to their order via email. Order should have been placed with processed payment. Order should not have shipped.		
Post-Condition:	Admin successfully changes the item quantity in an order.		
Frequency of Use:	Daily upon customers' request.		
Flow of Event:		**Actor action**	**System response**
	1	Select "Approved Orders List"	Display a list of approved orders.
	2	Search for an order.	Display Order details such as customer name, address, list of items, their quantity, price and estimated delivery date & time.
	3	Increase the quantity of a required item and click save.	Update the quantity of item in the order. Redisplays the updated order details and price. Notify the customer about the order changes. Calculate the amount to be paid and process the payment using order's payment details. Hold shipment till payment is processed. Notify admin to authorize delivery on successful processing of payment.
Variations	3. User clicks cancel button to undo the changes.		
Exceptions:	1. System displays an error message if the searched order is not found 2. System displays an error message if item searched is not found. 3. System displays an error message if payment cannot be processed for the newly added item. 4. System displays an error message if order has shipped.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.12.5	**Created By:**	Suresh Kumar
Use Case Name:	Cancel Order	**Date Created:**	30-Sep-2016
Description:	Admin can search for a placed order and cancel the order upon customer's request.		

Actors:	Admin		
Pre-Condition:	Admin should be logged in to the system. Customers should have requested to cancel the order via email. Order should have been placed with processed payment. Order should not have shipped.		
Post-Condition:	Admin successfully removes an item from an order.		
Frequency of Use:	Daily upon customers' request.		
Flow of Event:		**Actor action**	**System response**
	1	Select "Approved Orders List"	Display a list of approved orders.
	2	Search for an order.	Display Order details such as customer name, address, list of items, their quantity & price and estimated delivery date & time.
	3	Click on Cancel order	Display a confirmation message with "Yes" and "No" button.
	4	Click Yes button.	Change the order status to cancel. Notify the customer about canceled order. Cancel the shipment request. Process the refund for canceled order.
Variations	4. User clicks No button prevent cancelling of order.		
Exceptions:	1. System displays an error message if the searched order is not found 2. System displays an error message if order has shipped. 3. System notifies admin if refund cannot be processed.		
Notes and Issues:	None		
Developer notes:			

Use Case ID:	UC-1.13	**Created By:**	Sumit Narang
Use Case Name:	Authorize Payments	**Date Created:**	30-Sep-2016
Description:	Admin can see and authorize the payments		

Actors:	Admin		
Pre-Condition:	Order has been made		
Post-Condition:	Payment confirmed		
Frequency of Use:	Every time payment is made		
Flow of Event:		**Actor action**	**System response**
	1	Admin sign in	Display admin's home page
	2	Search for order	Display the order
	3	Authorize the payment	Sent notification to customer and store Manager
Exceptions:	1. Order number is not valid 2. Payment not completed		
Notes and Issues:	None		
Developer notes:			

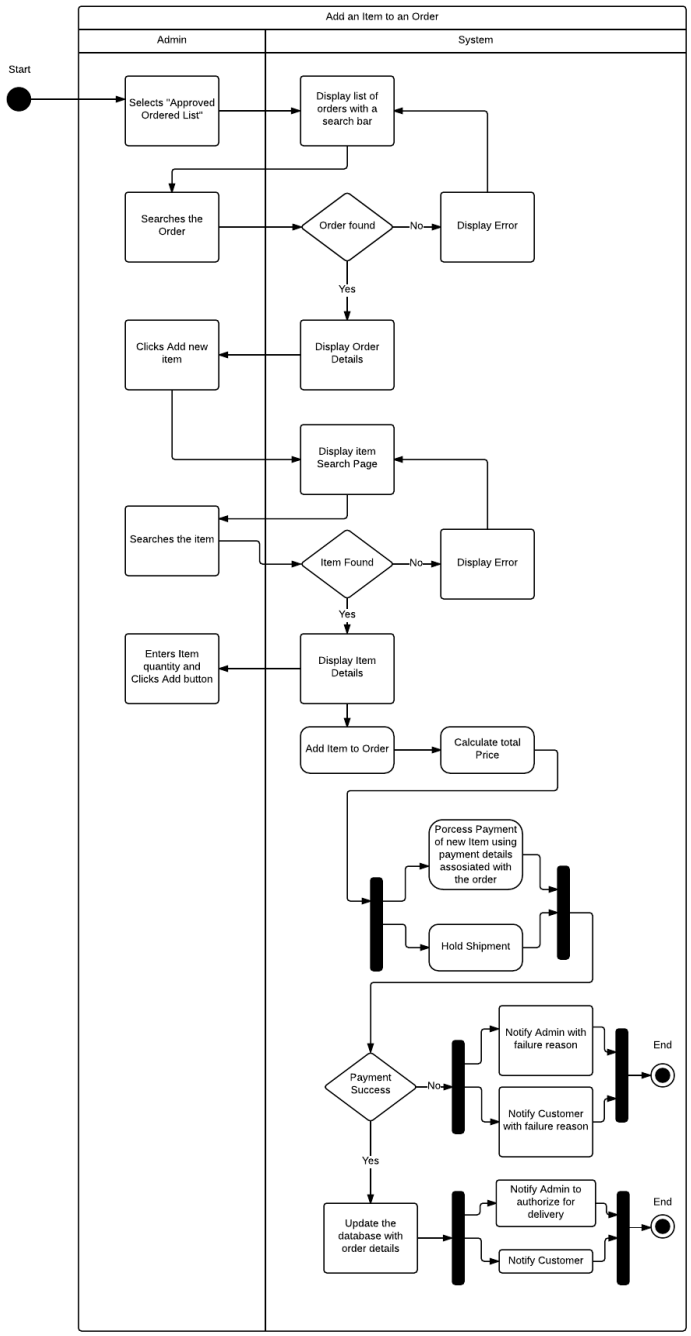
Use Case ID:	UC-1.14	**Created by:**	Hemang Bansal
Use Case Name:	Report Generation	**Date Created:**	30-Sep-2016
Description:	Admin can generate the required reports		

Actors:	Admin		
Pre-Condition:	Admin is logged in		
Post-Condition:	Admin has generated the required report		
Frequency of Use:	Weekly and monthly		
Flow of Event:		**Actor action**	**System response**
	1	Admin chooses to generate report	
	2	Select the store for which report is to be generated	
	3	Select the time period	
	4	Confirm	Generate the report for the given time period
Exceptions:	No data available for given dates		
Notes and Issues:	None		
Developer notes:			

Activity Diagram

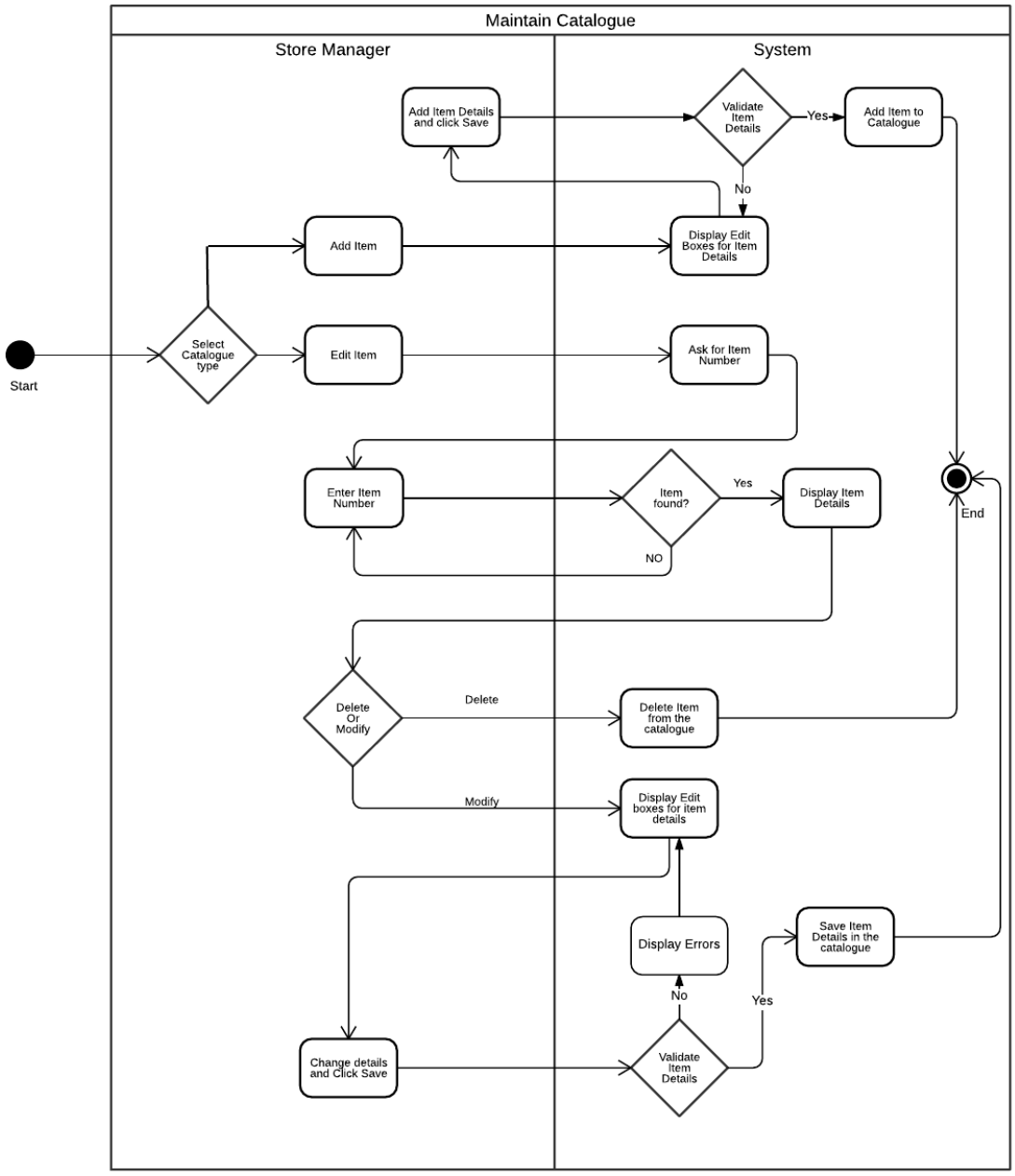
1. Add an item to Order

Requirement ID	Use Case ID	Short Description	Created by
UR-05	UC-1.12.3	Admin can search for an order to add a new item upon customer's request. Customer is notified about the order changes and charged for the newly added item using the payment information of the order.	Suresh Kumar



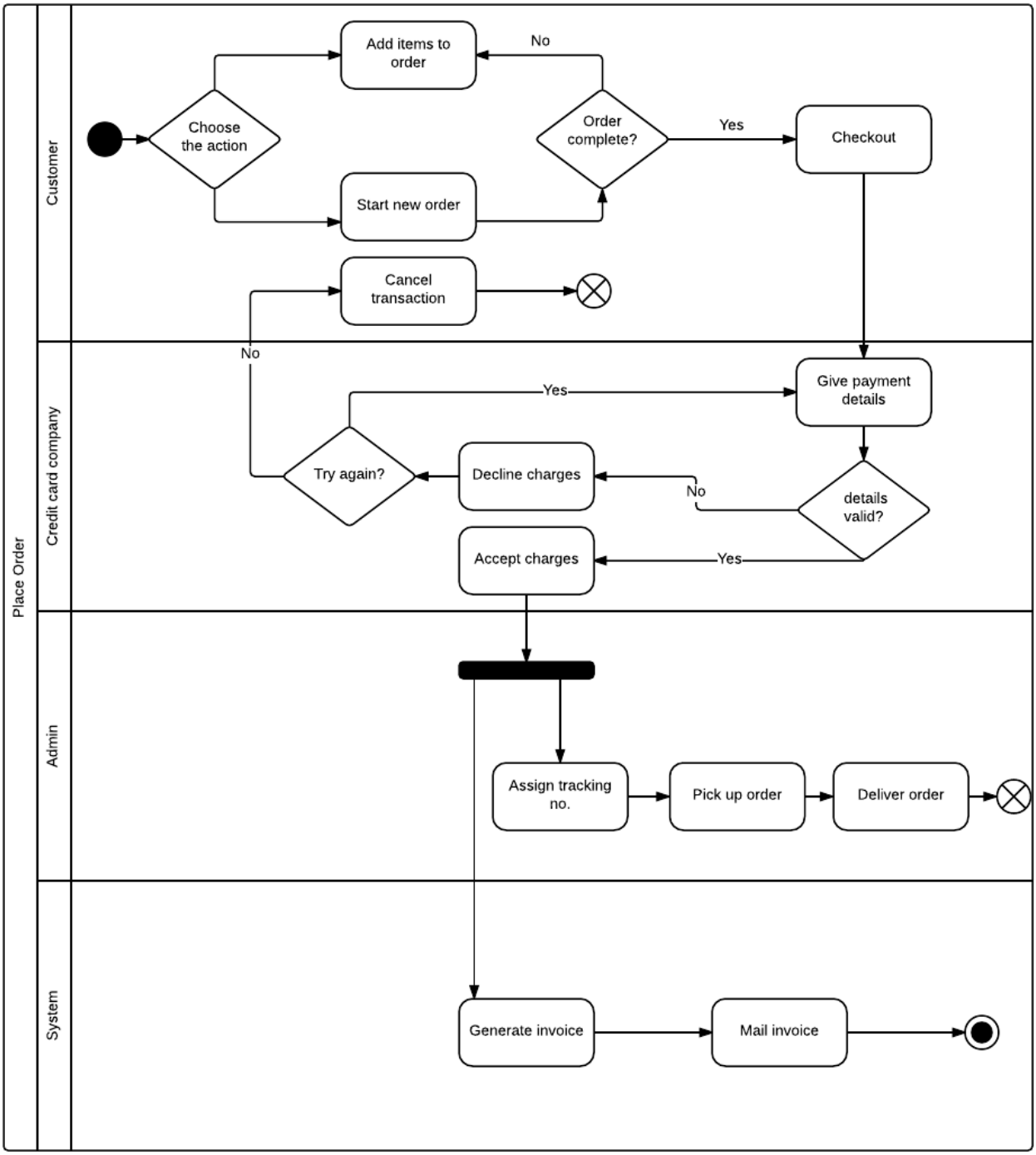
2. Maintain Catalogue

Requirement ID	Use Case ID	Short Description	Created by
UR-011	UC-1.9.1	Store Manager Can add item to Store Catalogue.	Sumit Narang
	UC-1.9.2	Store Manager can delete item from Store Catalogue.	
	UC-1.9.3	Store Manager can make changes to item in store Catalogue	



3. Place Order

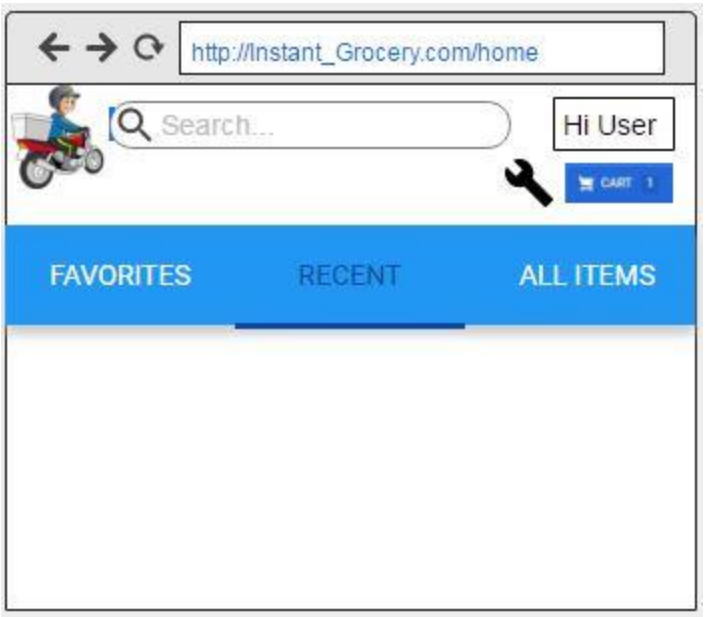
Requirement ID	Use Case ID	Short Description	Created by
UR-10	UC-1.6	Customer can place his order	Hemang Bansal

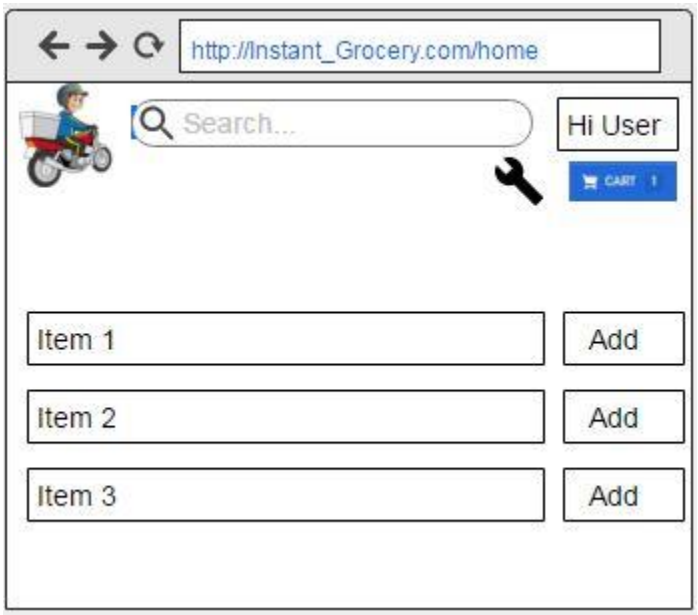


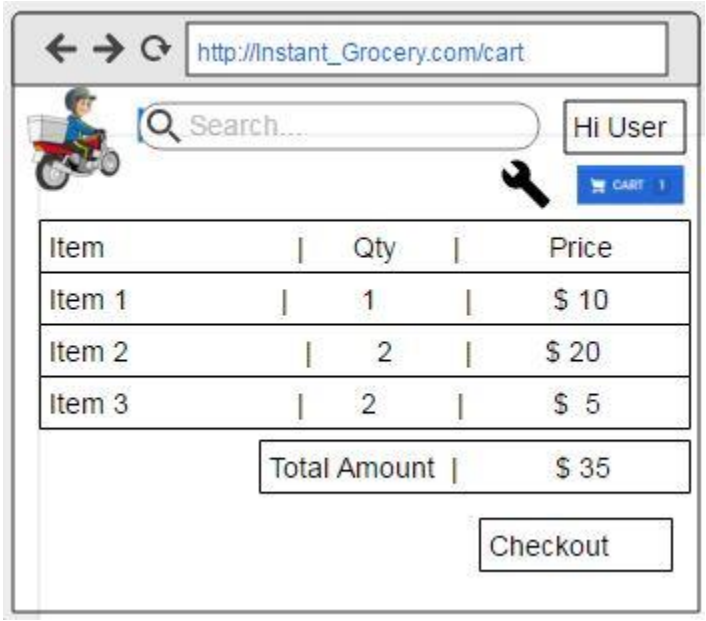
Data Storage:

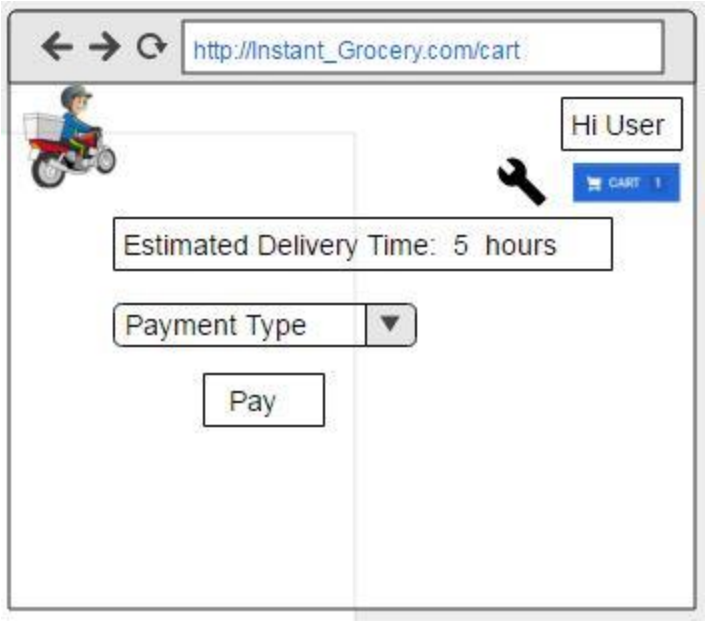
We plan to use to use Hibernate framework to map our objects to relational database. The objects of customer, store manager, general user, admin, Orders, Order Details, Shipping Details, Cart, Product Catalogue, Item will be mapped to database tables.

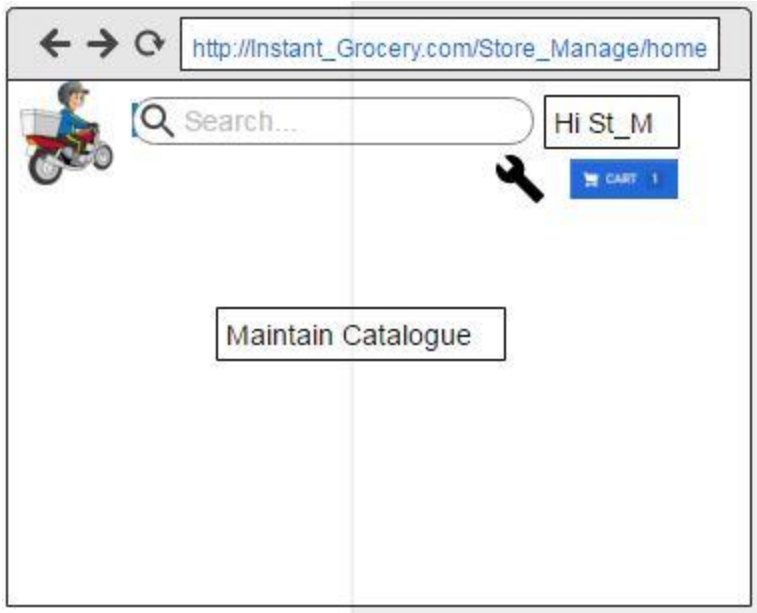
UI Mockup

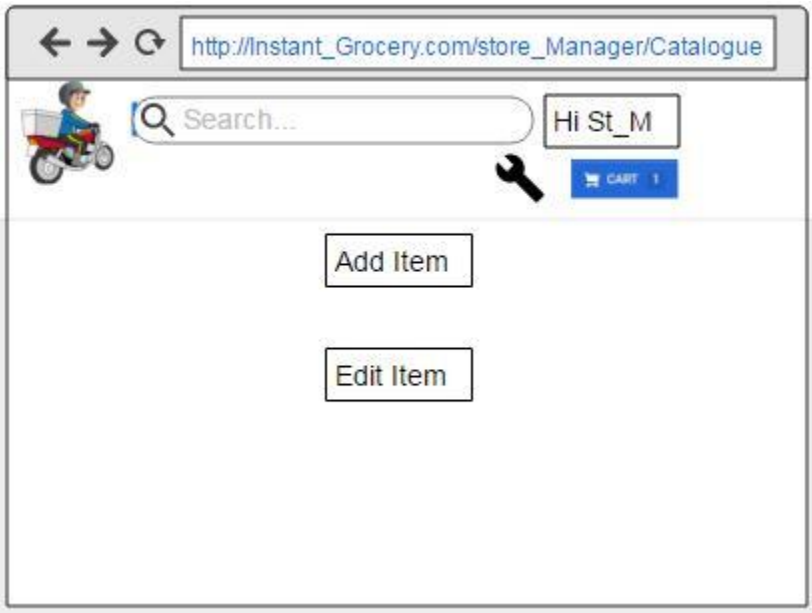







http://Instant_Grocery.com/cart
Hi User
CART 1
Estimated Delivery Time: 5 hours
Payment Type
Pay


http://Instant_Grocery.com/Store_Manage/home
Search...
Hi St_M
CART 1
Maintain Catalogue


http://Instant_Grocery.com/store_Manager/Catalogue
Search...
Hi St_M
CART 1
Add Item
Edit Item

http://Instant_Grocery.com/home
Search...
Hi Admin
CART 1
Manage Orders
Manage Users

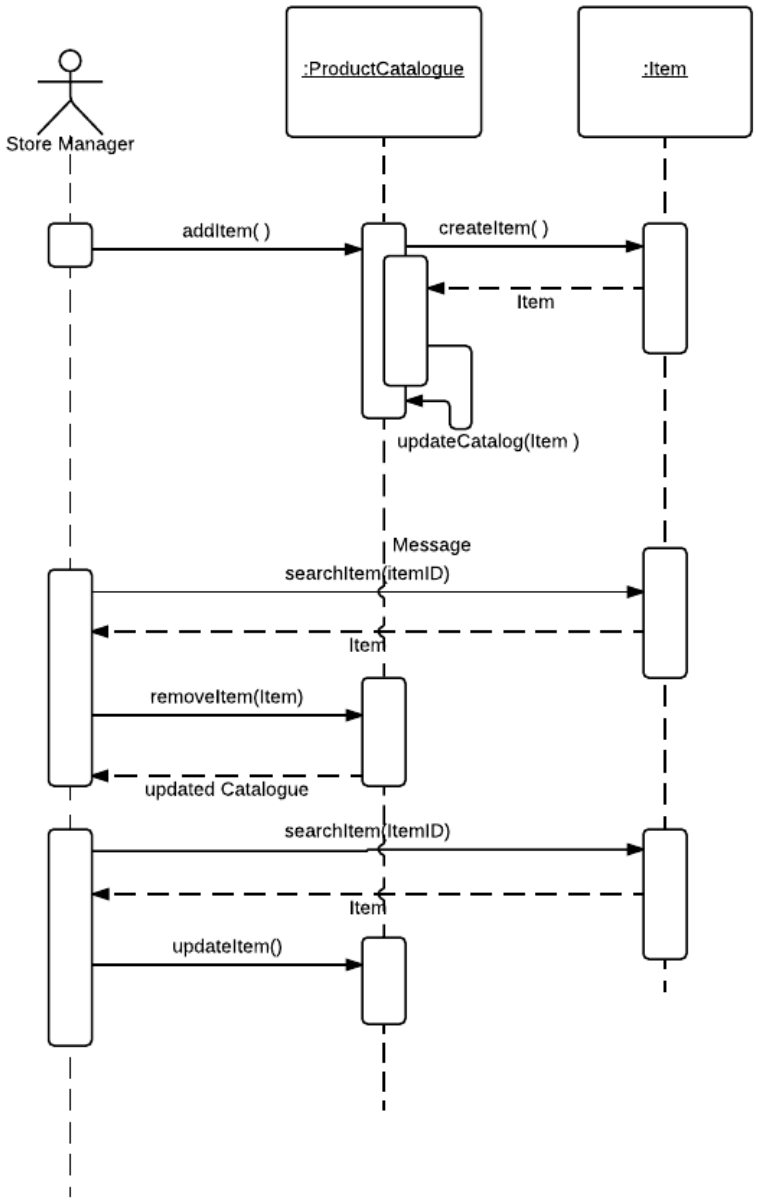
Sequence Diagram

1. **Add an item to Order**

Requirement ID	Use Case ID	Short Description	Created by
UR-05	UC-1.12.3	Admin can search for an order to add a new item upon customer's request. Customer is notified about the order changes and charged for the newly added item using the payment information of the order.	Suresh Kumar

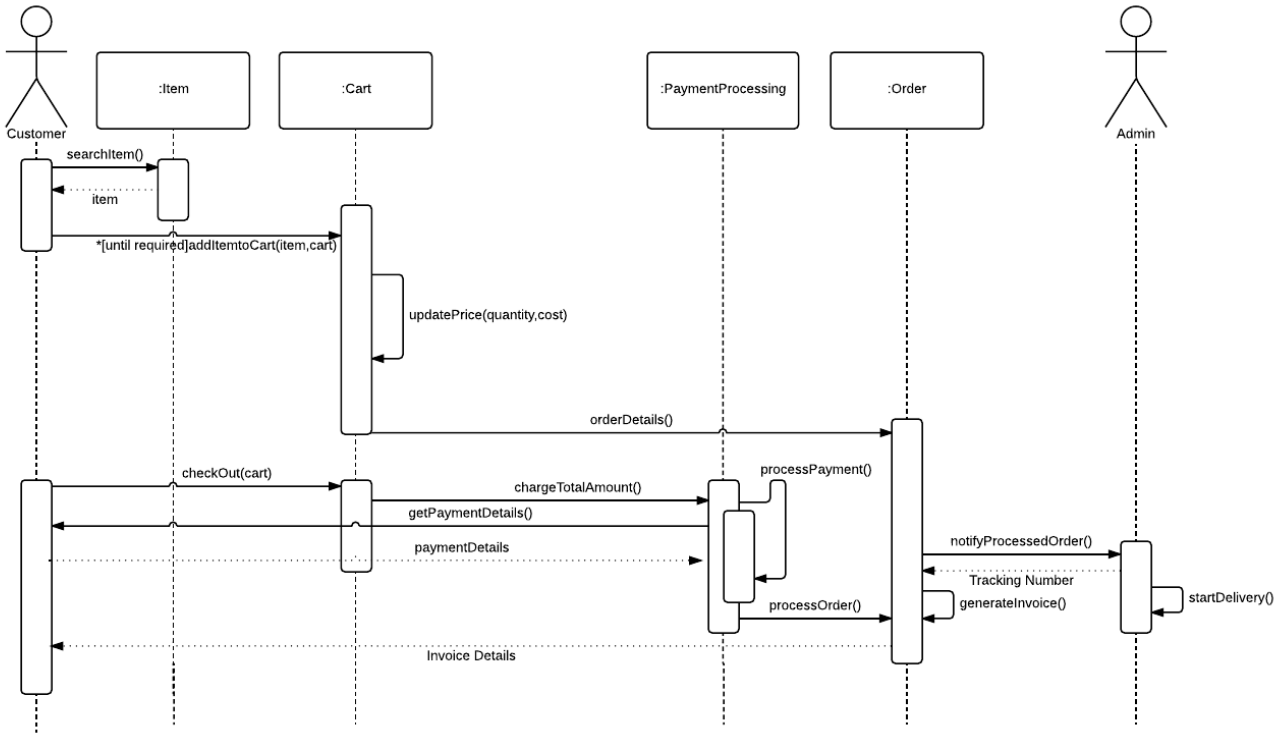
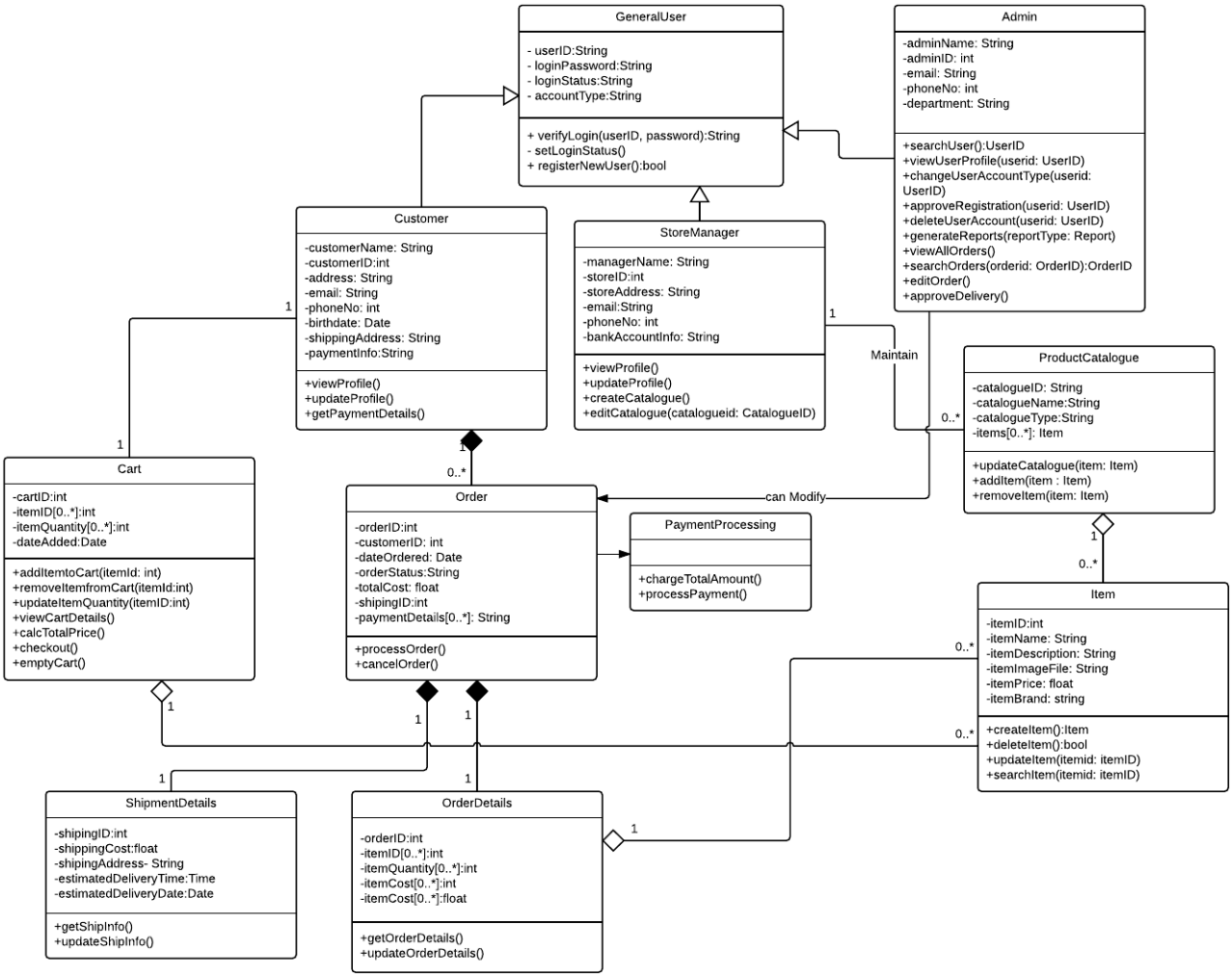
2. Maintain Catalogue

Requirement ID	Use Case ID	Short Description	Created by
UR-011	UC-1.9.1	Store Manager Can add item to Store Catalogue.	Sumit Narang
	UC-1.9.2	Store Manager can delete item from Store Catalogue.	
	UC-1.9.3	Store Manager can make changes to item in store Catalogue	



3. Place Order

Requirement ID	Use Case ID	Short Description	Created by
UR-10	UC-1.6	Customer can place his order	Hemang Bansal



Class Diagram: