

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light mint green. They are positioned diagonally, with the blue one partially covering the green one.

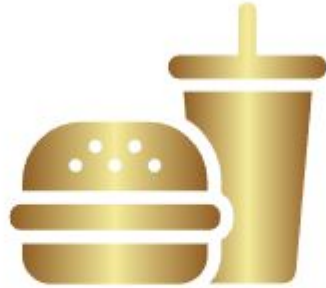
burgerBurger

Jackson Douma, Michael Rosanelli, Alessio
Schiavi, Liam Slappendel



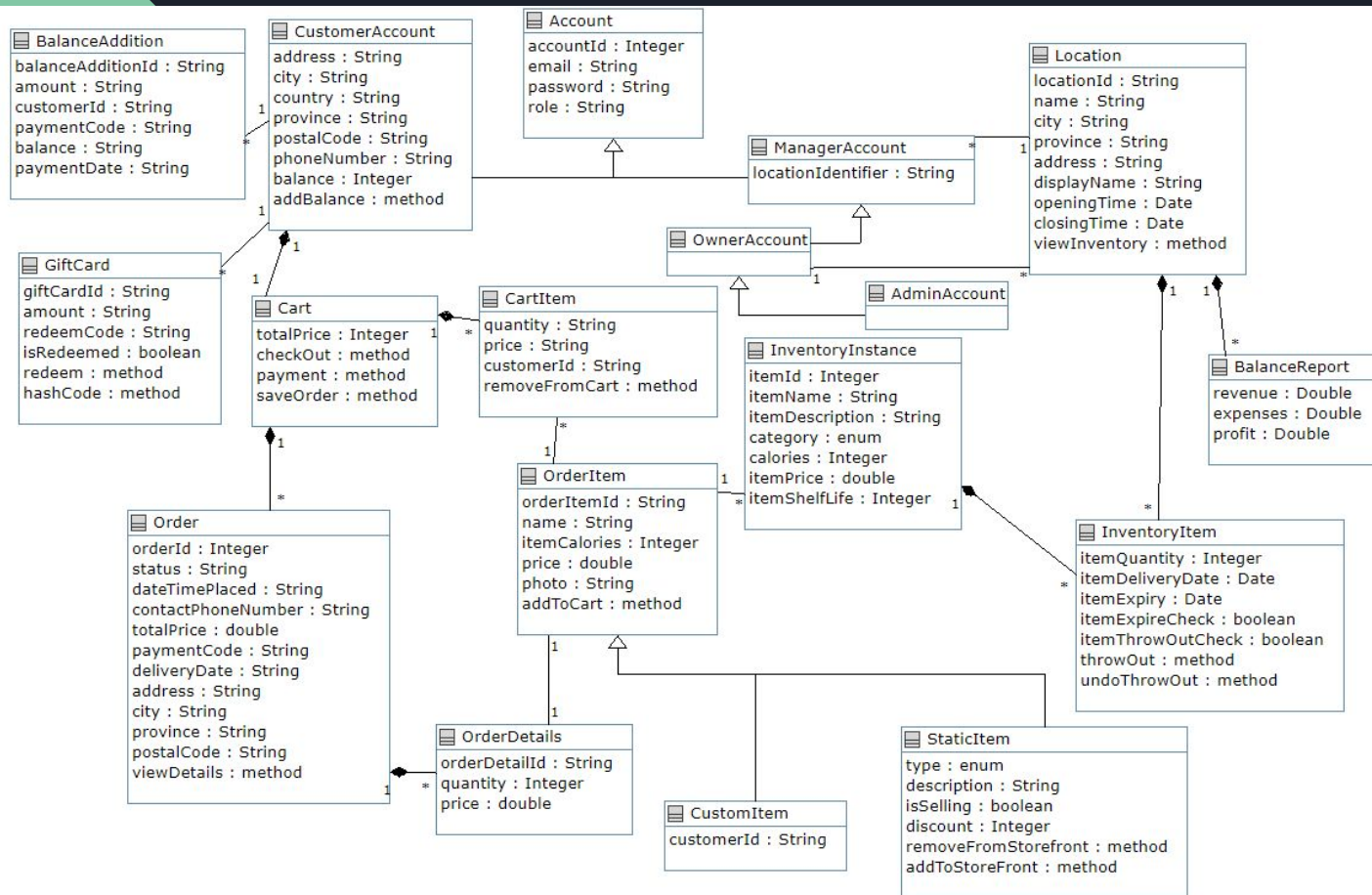
burgerBurger

Software Requirements Specification



burgerBurger

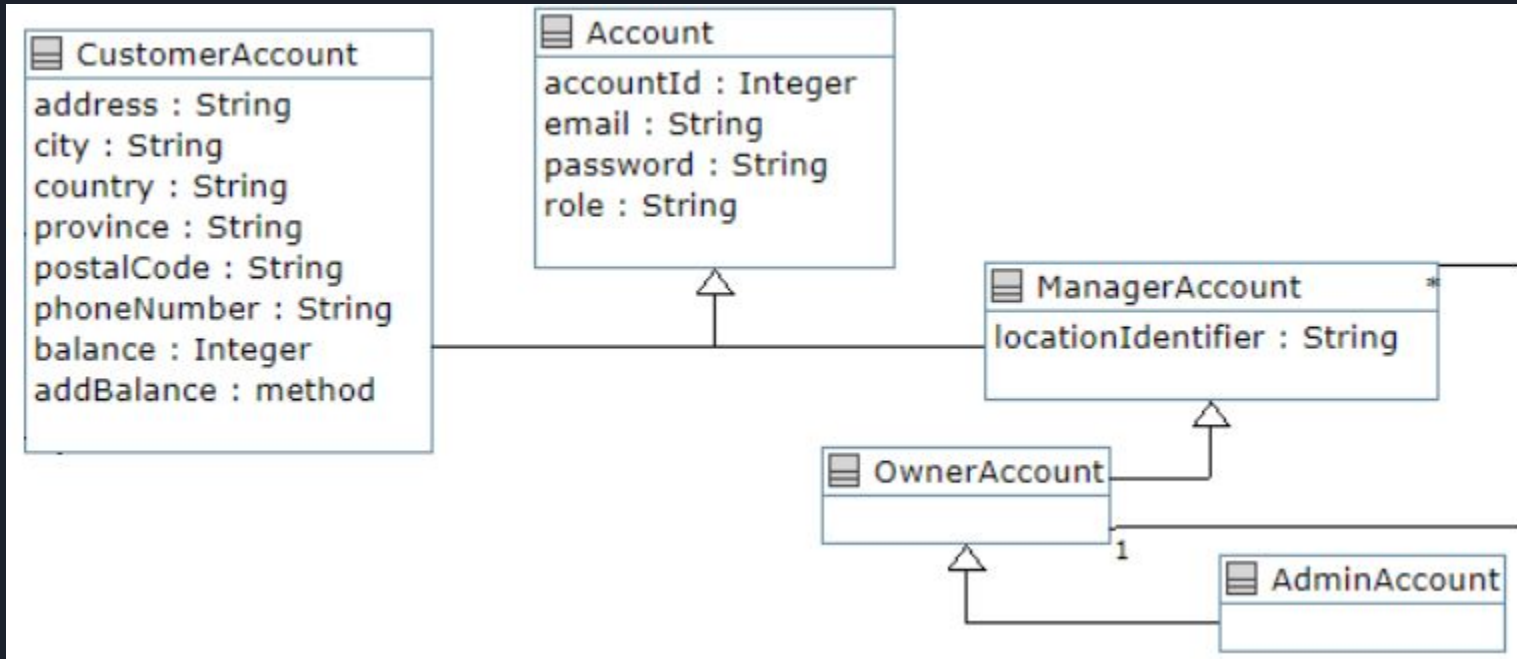
UML Diagram for burgerBurger



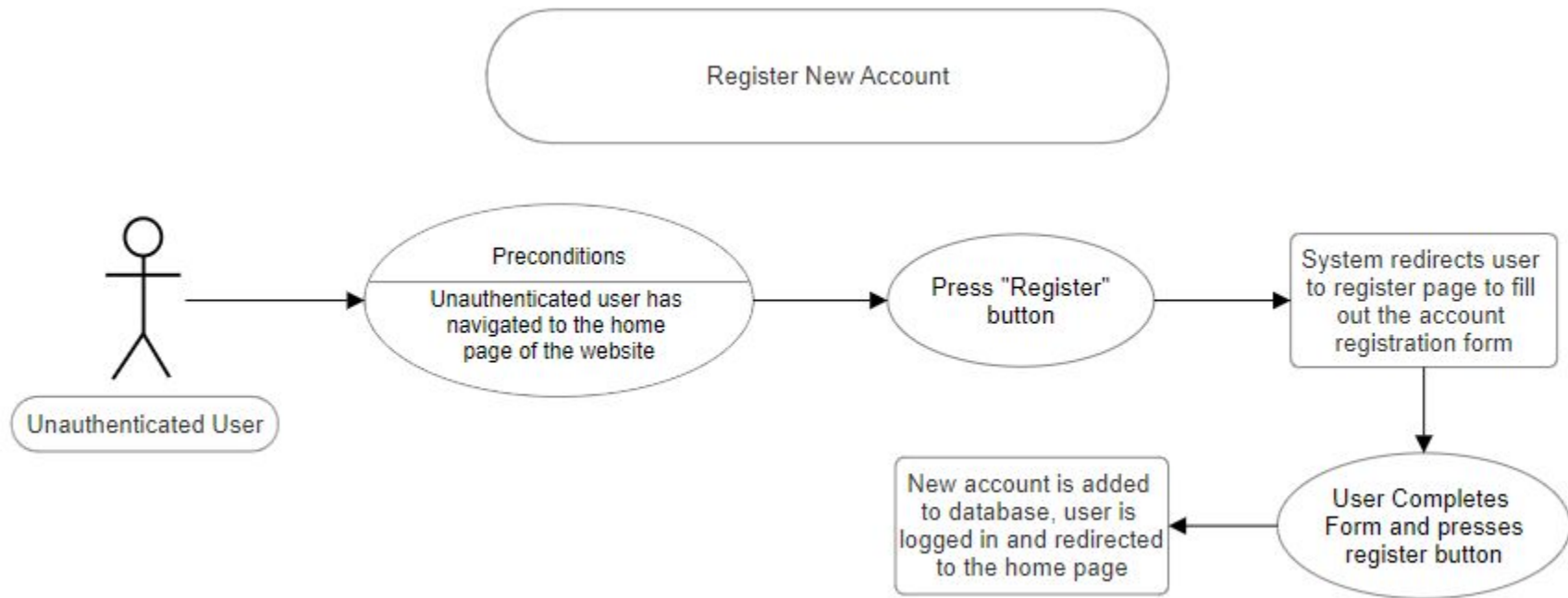
Authentication/Authorization

The background features a series of dark gray, three-dimensional rectangular planes that recede into the distance, creating a sense of depth. A light green parallelogram is positioned on one of the upper planes, and a blue parallelogram is on a lower plane, both adding a pop of color to the monochromatic scheme.

Account Structure

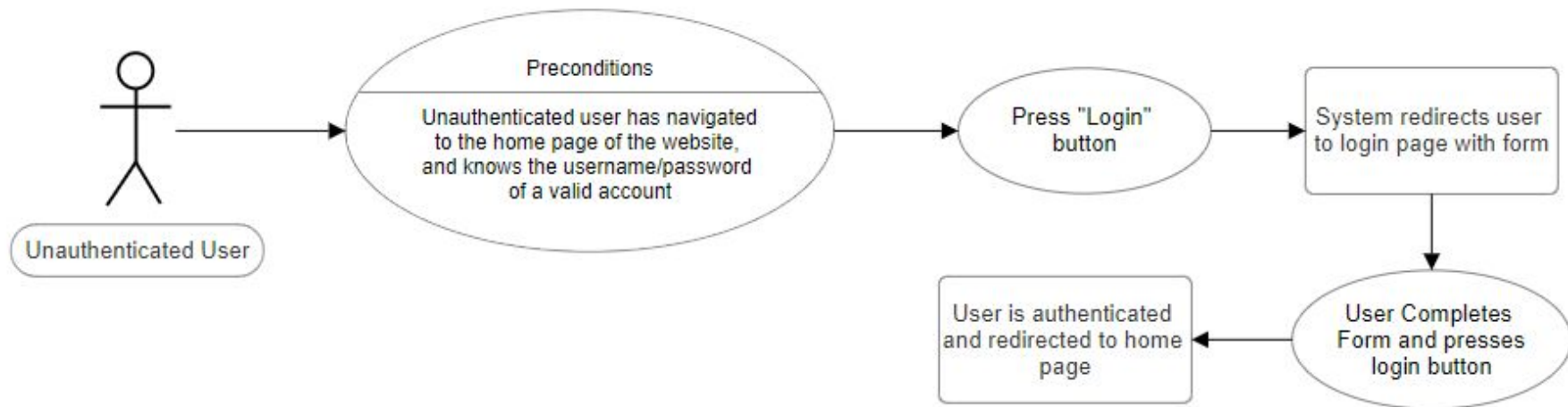


Use Case - Register New Account

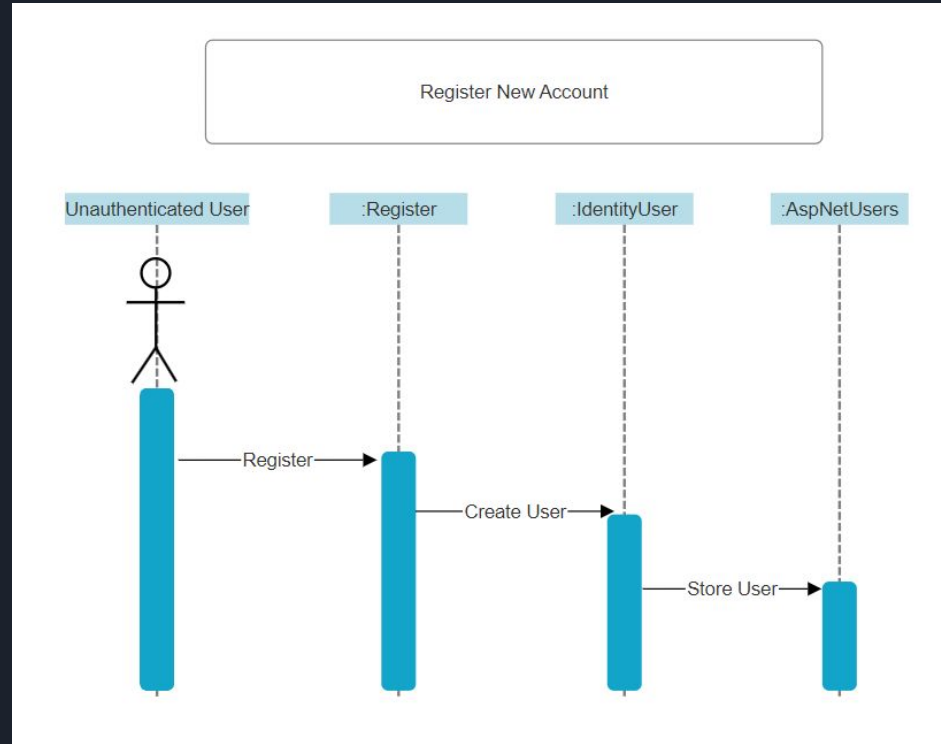


Use Case - Login to Account

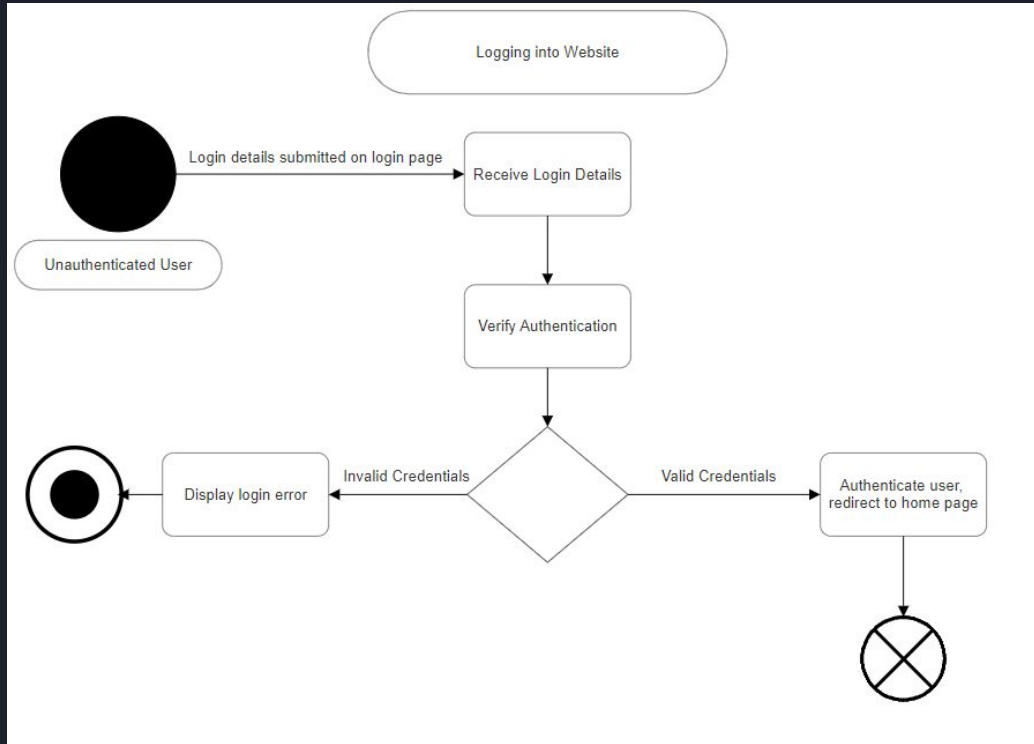
Login to Account



Sequence - Register New Account



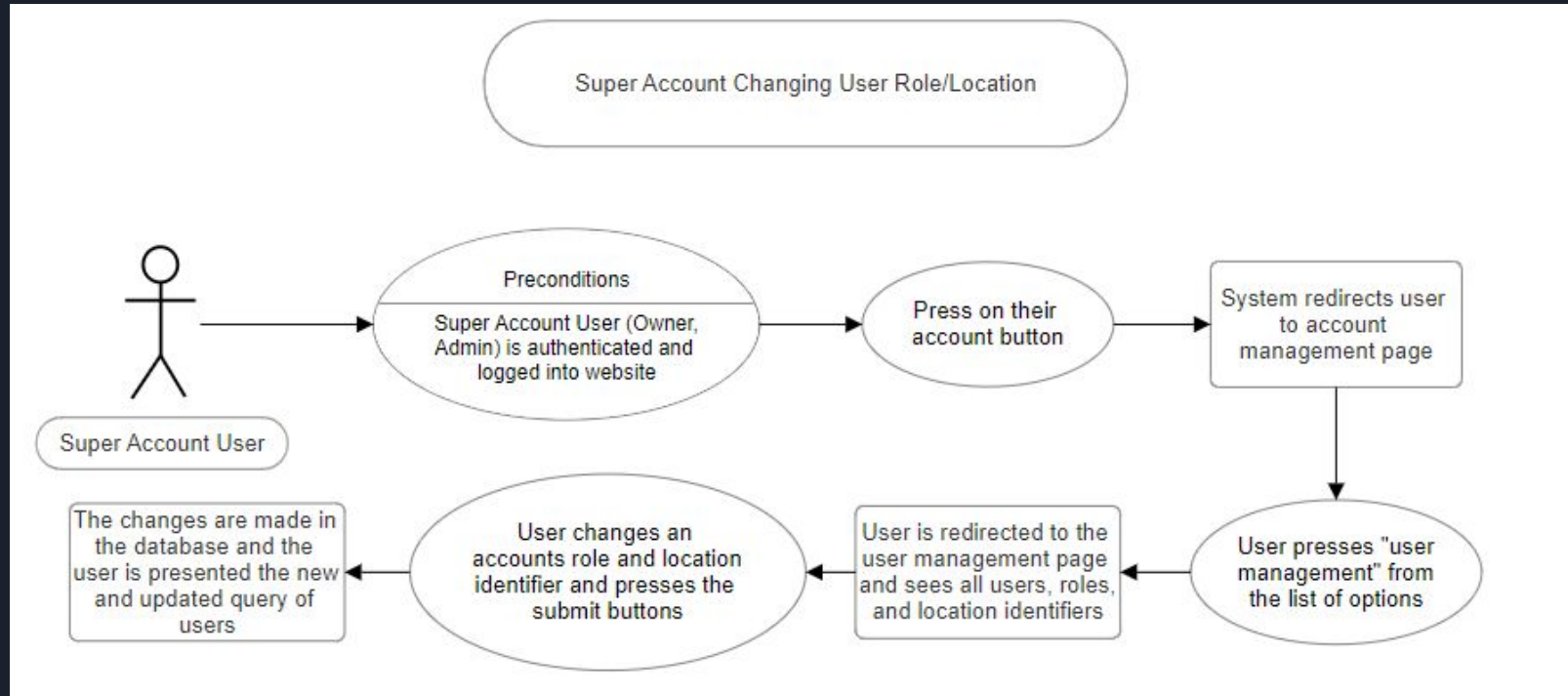
Activity - Login to Account



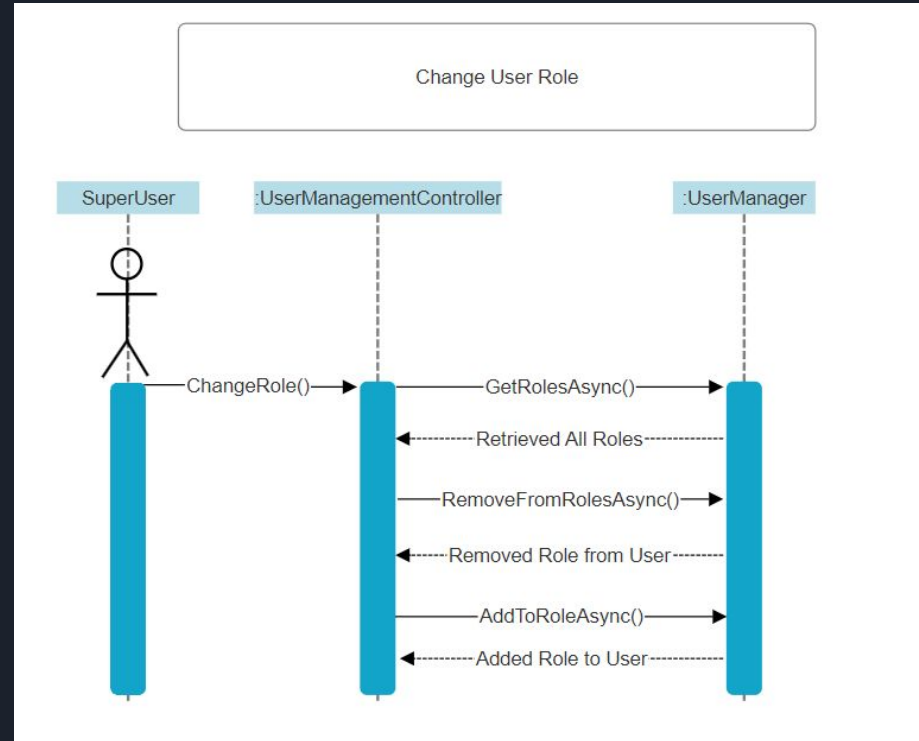
Authentication/Authorization

Demonstration 1 - Register/Login

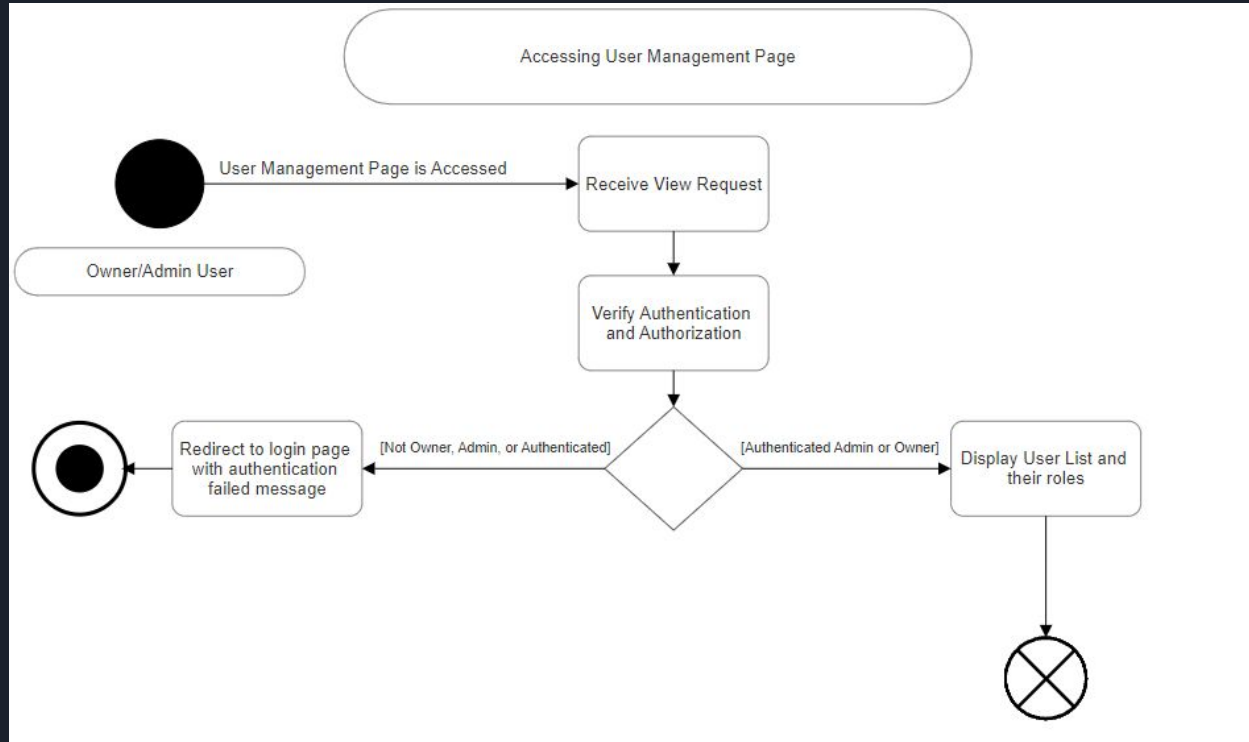
Use Case - Changing User Role/Location



Sequence - Changing User Role



Activity - User Management Page



Authentication/Authorization

Demonstration 2 - Change User Role/Location Identifier



Location Identifiers

| address | balance | city | country | locationIdentifier | province | postalCode |
|--------------------|---------|--------|---------|--------------------|----------|------------|
| NULL | 0.00 | NULL | NULL | 2 | NULL | NULL |
| 143 Browning Trail | 120.00 | Barrie | Canada | 3 | Ontario | NULL |
| 1 Man Street | 0.00 | Barrie | Canada | 1 | QC | L5F5F3 |

Users

| | InventoryId | quantity | itemDeliveryDate | LocationId | itemExpirey |
|---|-------------|----------|-----------------------------|------------|-----------------------------|
| 1 | 23 | 100 | 2023-11-20 14:28:00.0000000 | 1 | 2024-01-04 14:28:00.0000000 |

Inventory Items

| | LocationId | locationCity | locationProvince | locationAddress | LocationName | DisplayName |
|---|------------|---------------|------------------|--------------------|---------------------------|---|
| 1 | 1 | Barrie | ON | 29 McAvoy Dr. | Mikey's Place | Mikey's Place - Barrie ON 29 McAvoy Dr. |
| 2 | 3 | Hawkestone | Ontario | 5 Booth Street | Burger Pit | Burger Pit - Hawkestone Ontario 5 Booth Street |
| 3 | 7 | Barrie | Ontario | 80 Barrie View Dr. | McDonalds | McDonalds - Barrie Ontario 80 Barrie View Dr. |
| 4 | 9 | Bikini Bottom | Ocean | 4 Water Drive | Krusty Krab | Krusty Krab - Bikini Bottom Ocean 4 Water Drive |
| 5 | 10 | Orillia | Ontario | 500 University Ave | 24 Hour Burgers @Lakehead | 24 Hour Burgers @Lakehead - Orillia Ontario 500 ... |

Locations

Example of Location Identifiers in Inventory

```
private void CheckAndSendTwilioMessages(Inventory inventory)
```

```
{  
    if (!inventory.itemExpireCheck && inventory.itemExpirey.Date <= DateTime.Now.AddDays(3).Date)
```

```
    {  
        if (!inventory.MessageSent)
```

```
        {  
            var accountSid = "AC2e8546a4562326dc5114a3220c8fb7e3";  
            var authToken = "63a35084de721329ed5e65a0ae743d6c";
```

```
            TwilioClient.Init(accountSid, authToken);
```

```
            var locationId = inventory.LocationId;  
            var location = _context.Location.FirstOrDefault(l => l.LocationId == locationId);
```

← What is the location of the item?

```
            var managerUserRole = _context.UserRoles  
                .FirstOrDefault(ur => ur.UserId == _context.Users  
                    .Where(u => u.locationIdentifier == location.LocationId)  
                    .Select(u => u.Id)  
                    .FirstOrDefault() &&  
                    ur.RoleId == "2f3c1a4b-e860-4f72-9f35-026fdaff2dc8");
```

← What manager account shares this location?

```
            if (managerUserRole != null)
```

```
            {  
                var managerUser = _context.Users.FirstOrDefault(u => u.Id == managerUserRole.UserId);
```

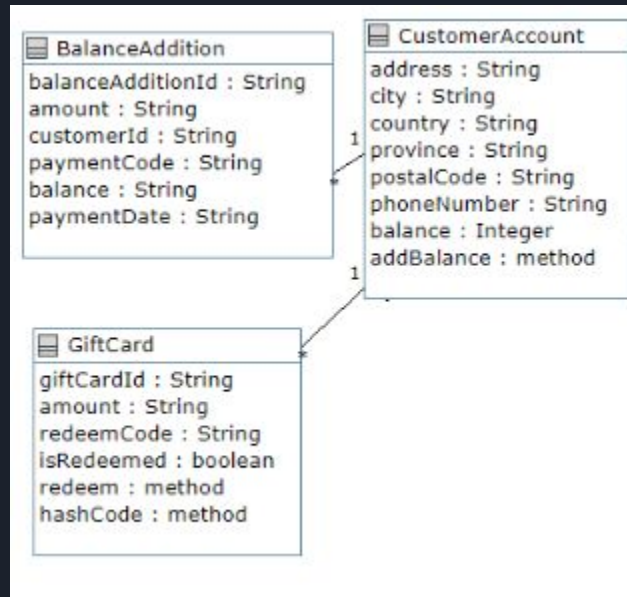
```
                if (managerUser != null && !string.IsNullOrEmpty(managerUser.PhoneNumber))  
                {
```

```
                    var to = new PhoneNumber(managerUser.PhoneNumber);
```

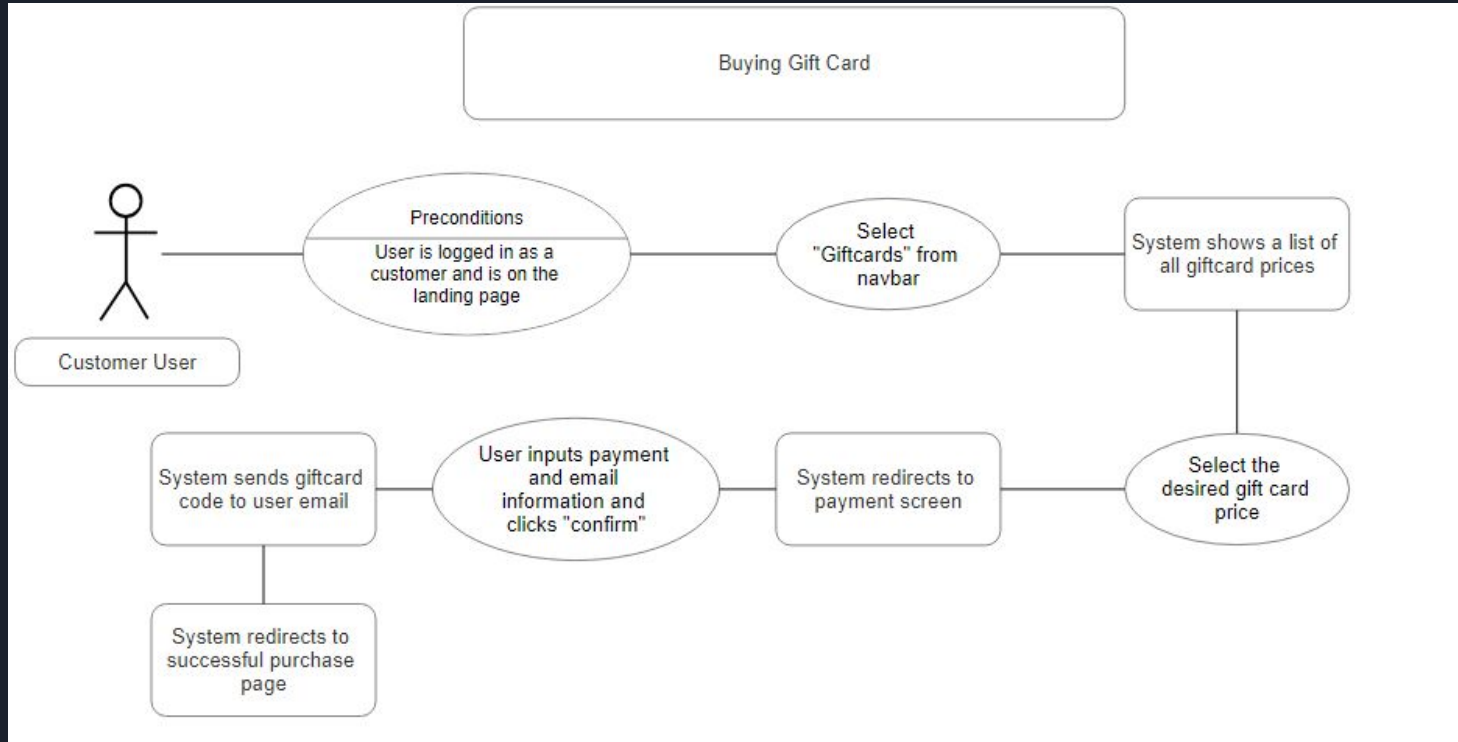

Accounts - Giftcards/Balance

The background features a series of dark gray, three-dimensional rectangular planes that recede into the distance, creating a sense of depth. A light green parallelogram is positioned on one of the upper planes, and a blue parallelogram is on a lower plane, both adding a pop of color to the monochromatic scheme.

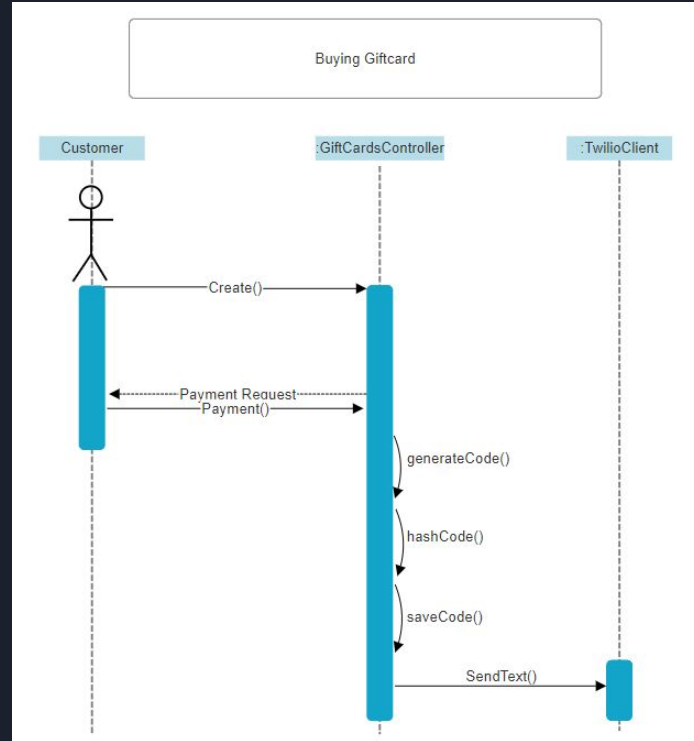
Gift Card/Balance Structure



Use Case - Buying Gift Card

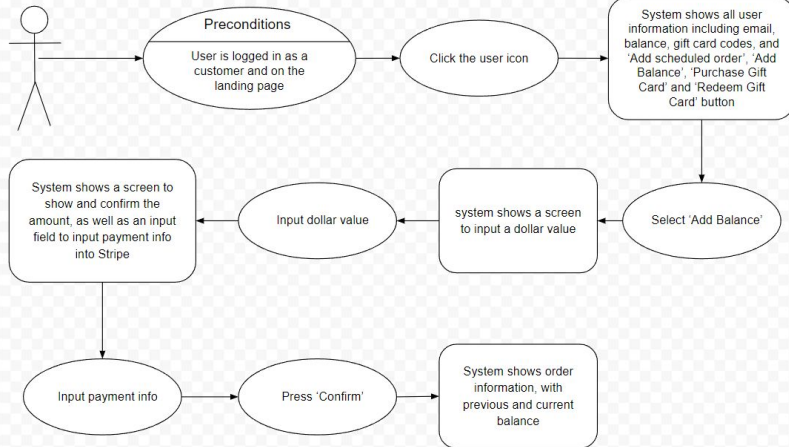


Sequence - Buying Gift Card

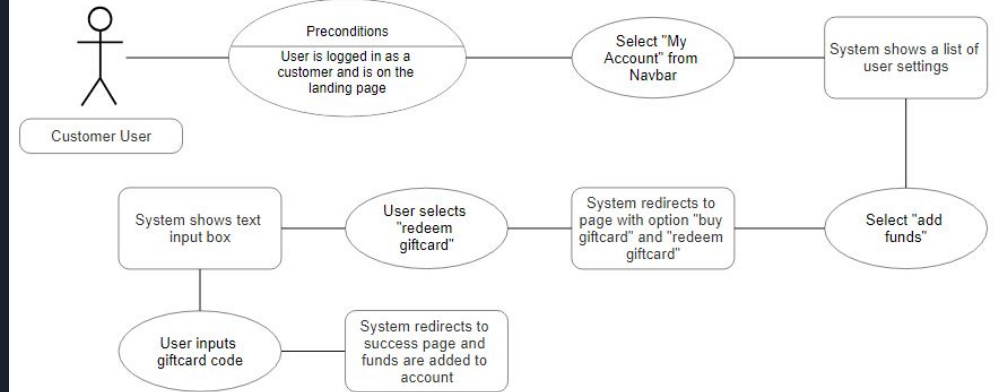


Adding Balance to User's Account

Adding balance to the user's account



Redeeming Gift Card to Balance



Authentication/Authorization

Demonstration 3 - Buying and Redeeming Gift Cards



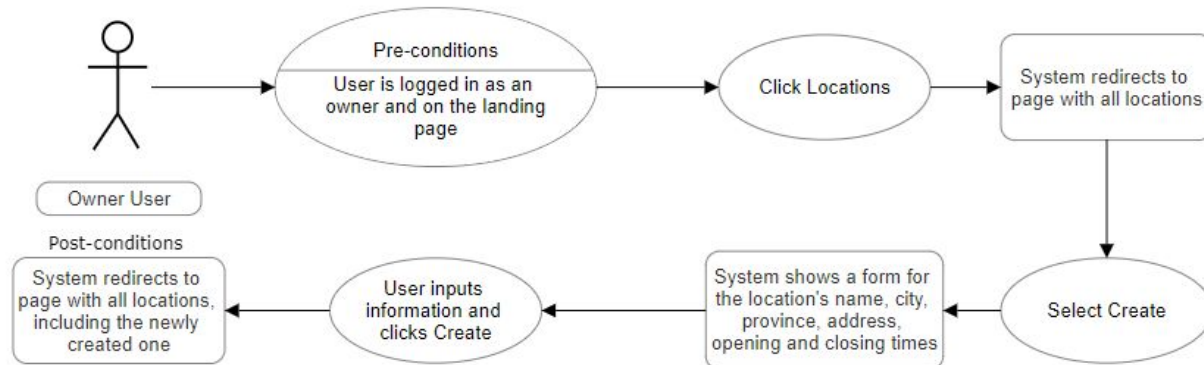
Location and Inventory



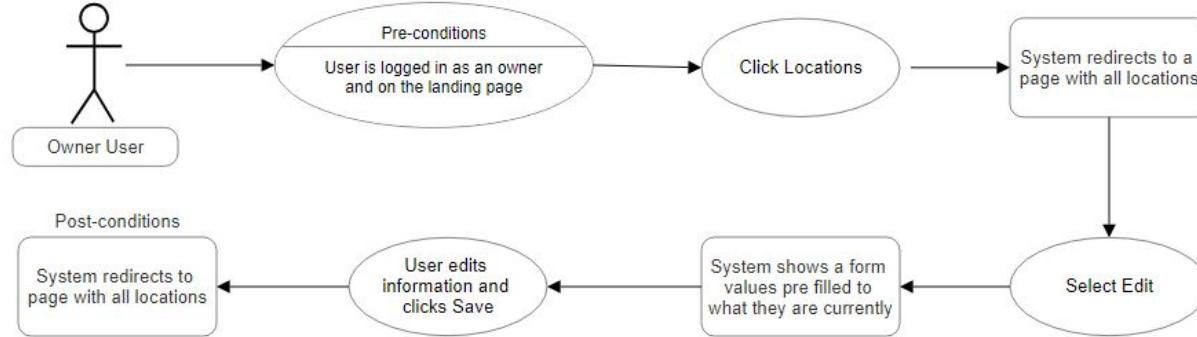
Use Case Diagrams



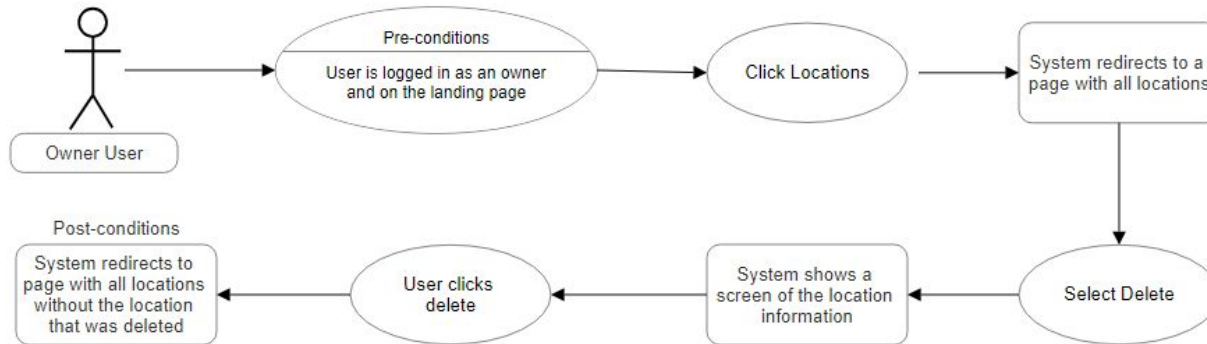
Adding A New Location

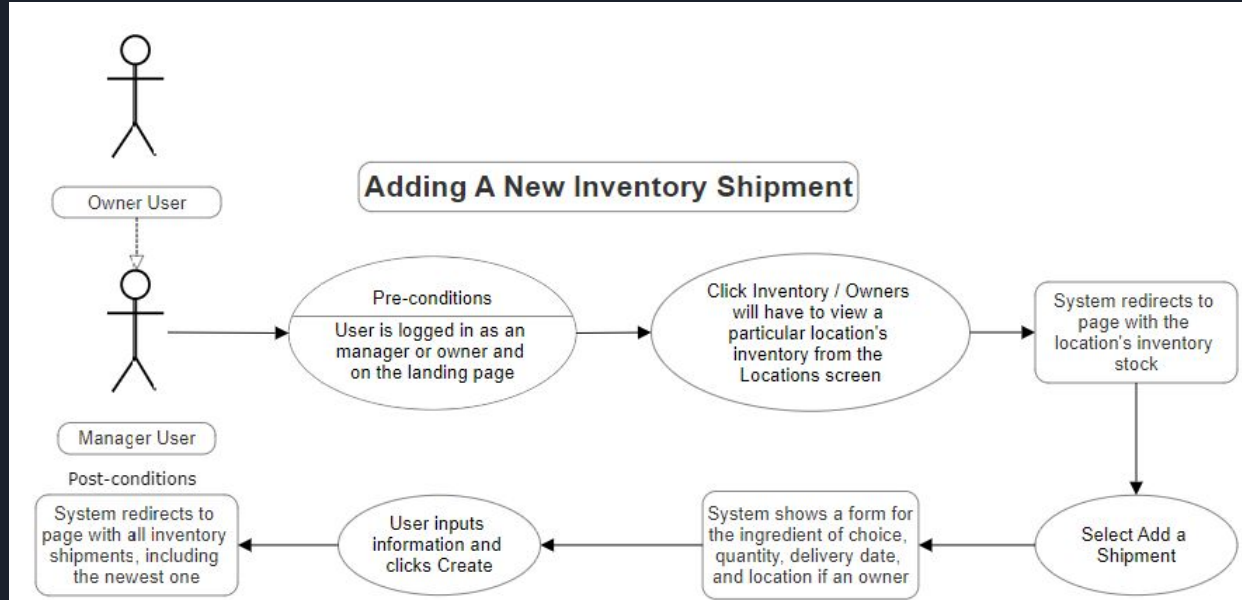


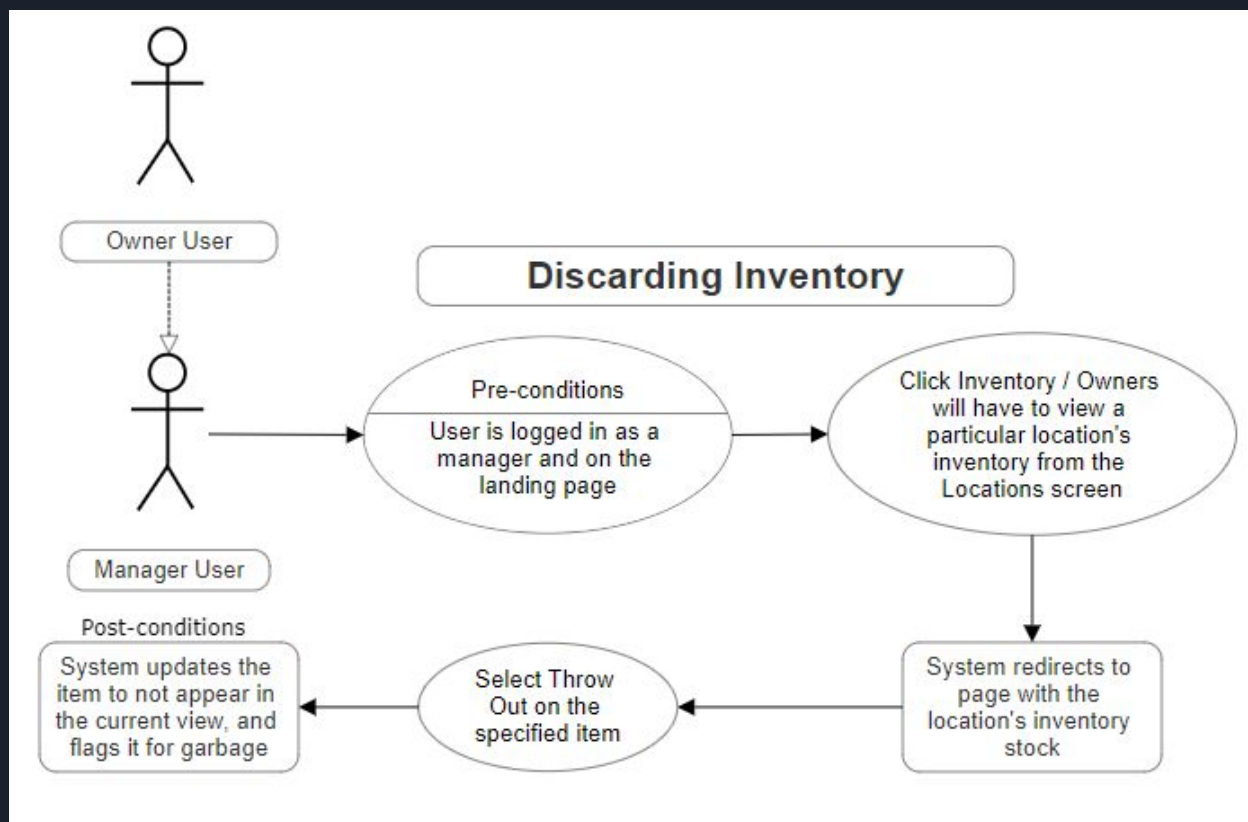
Editing a Location

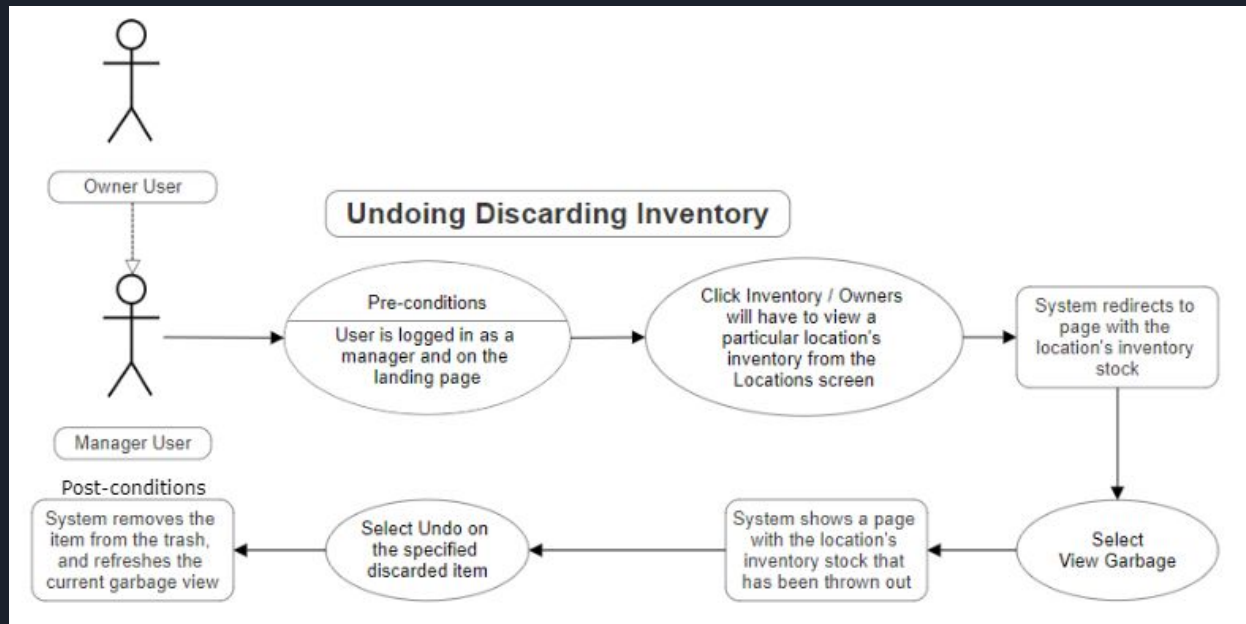


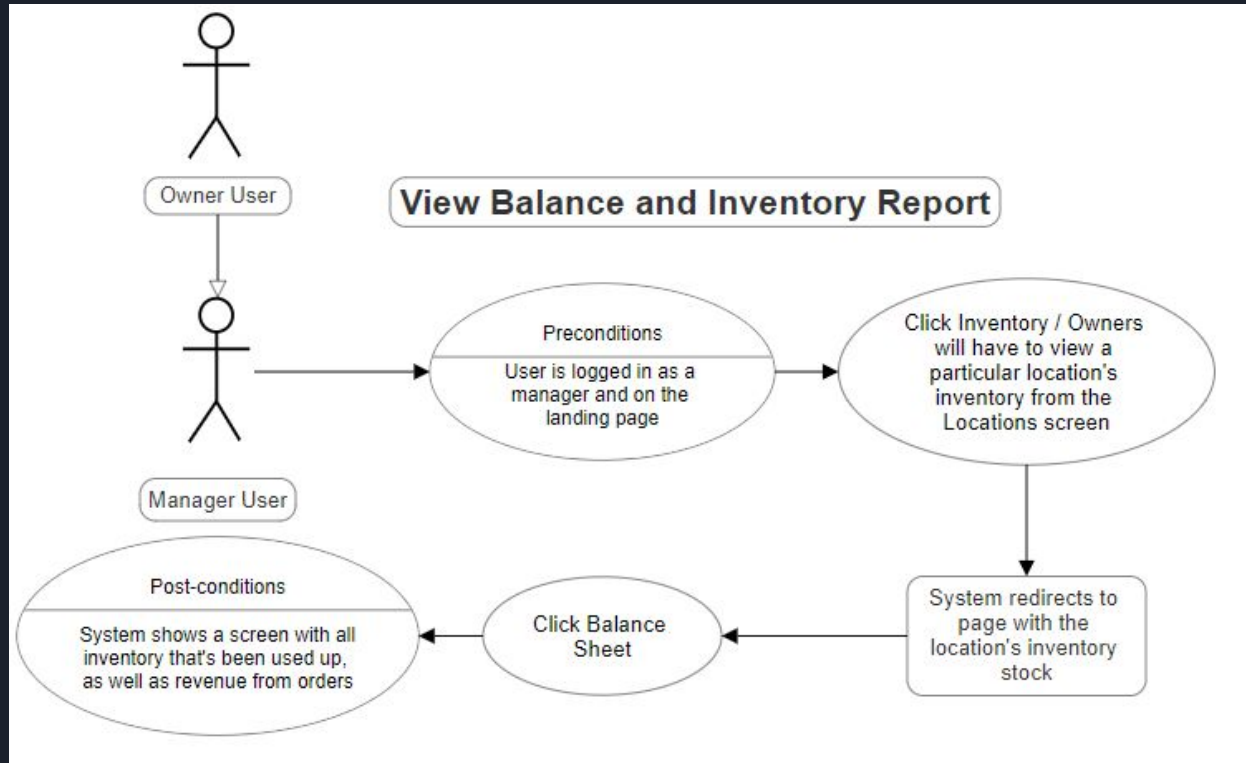
Deleting a Location



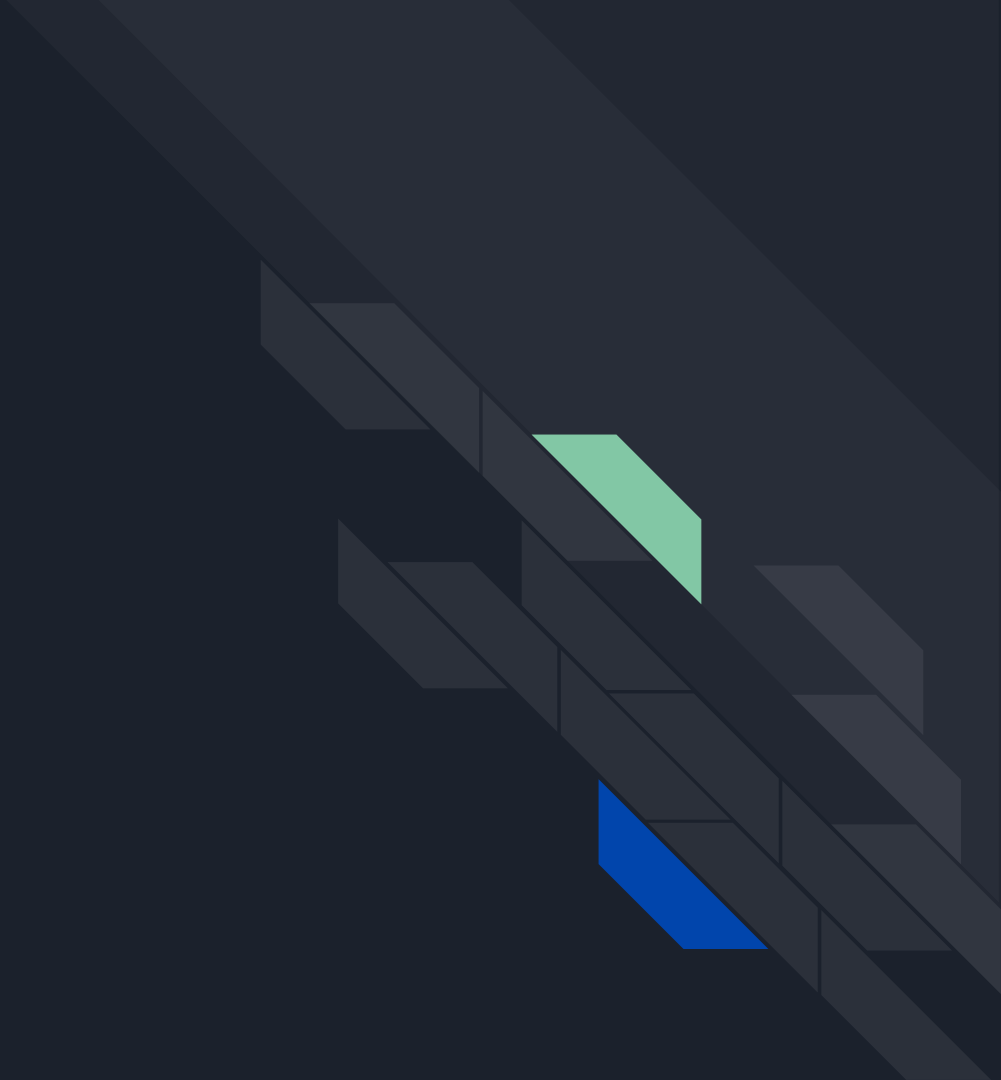


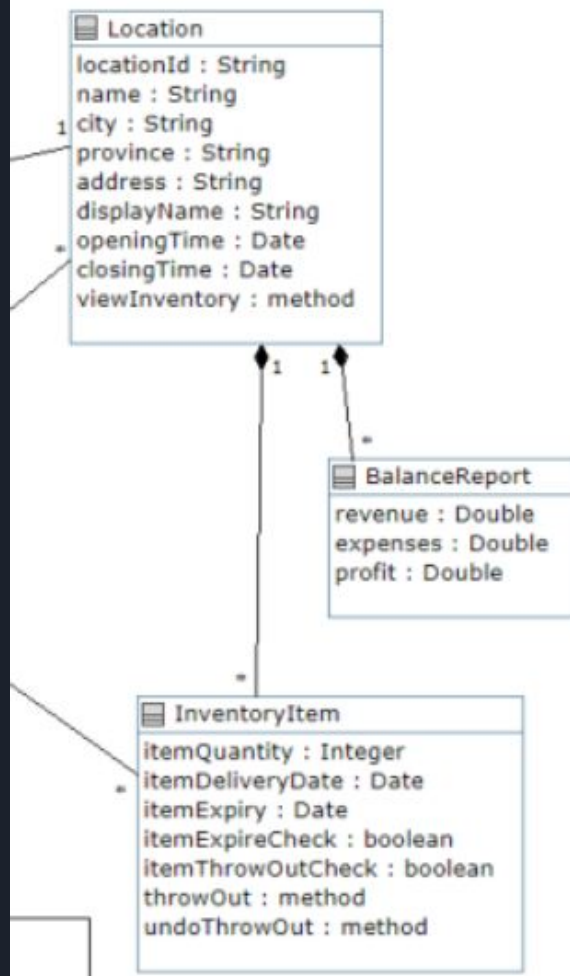






Classes



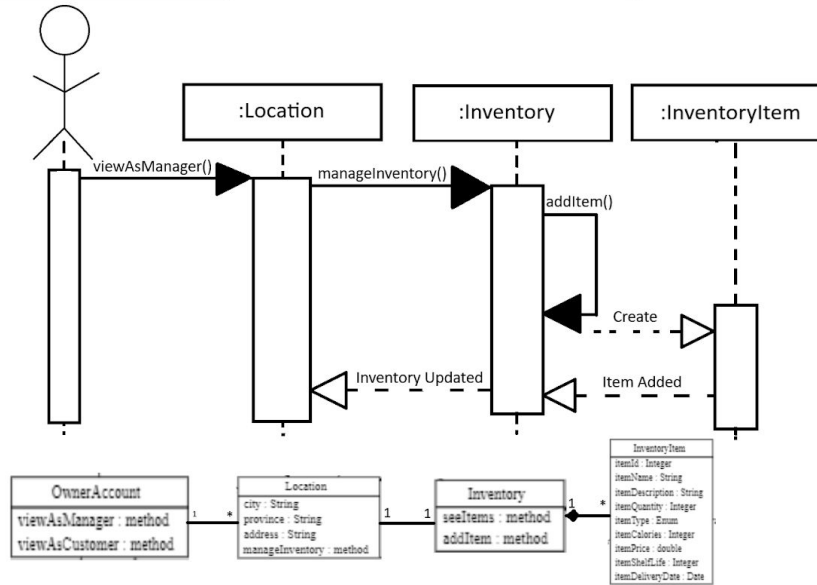


Sequence Diagrams



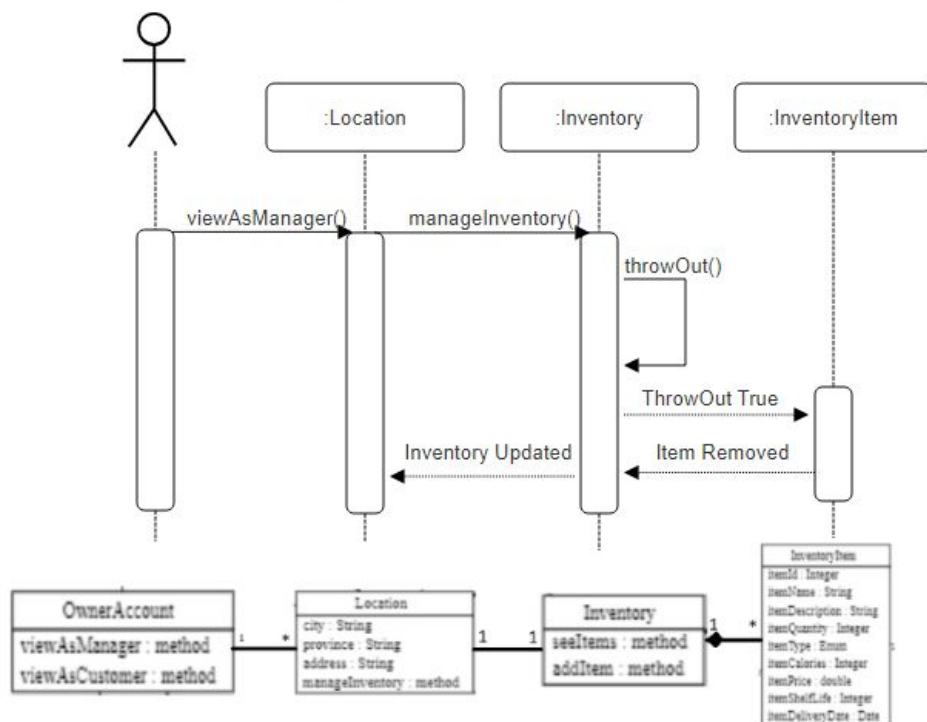
Owner User (OwnerAccount)

Owner User Adding Item to Inventory



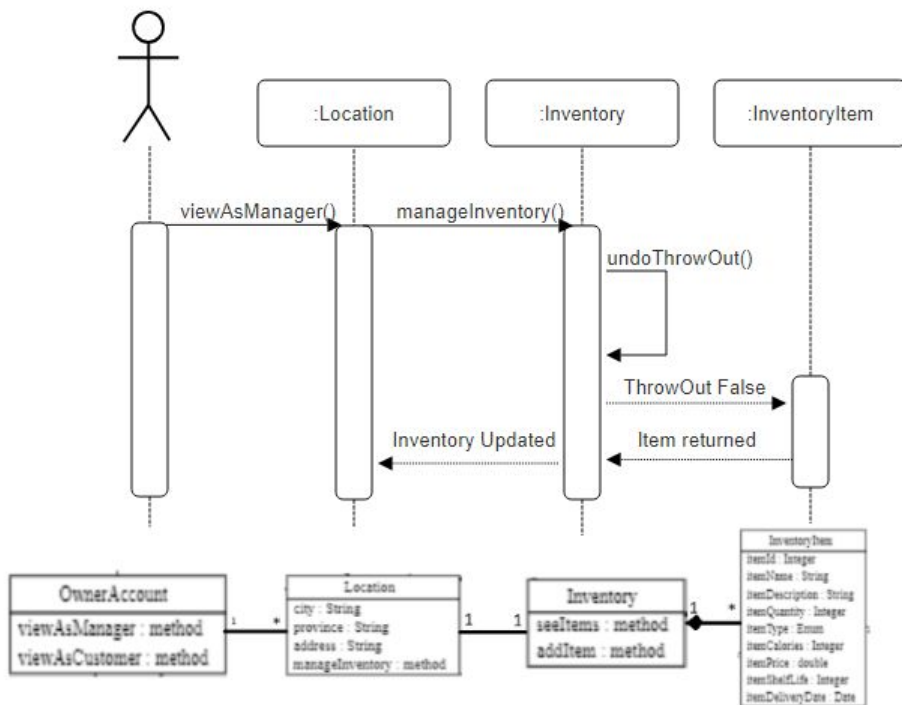
Owner Account

Owner User Discarding an Inventory item



Owner Account

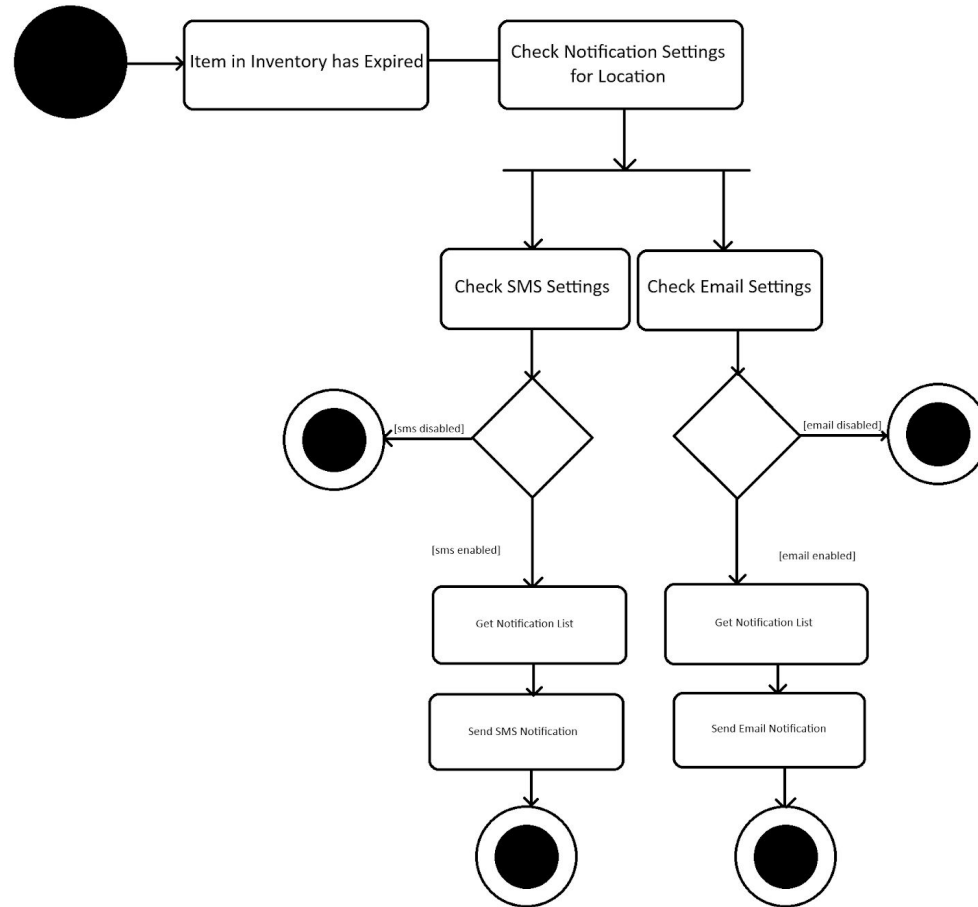
Owner User Returning a Discarded Inventory item



Activity Diagrams



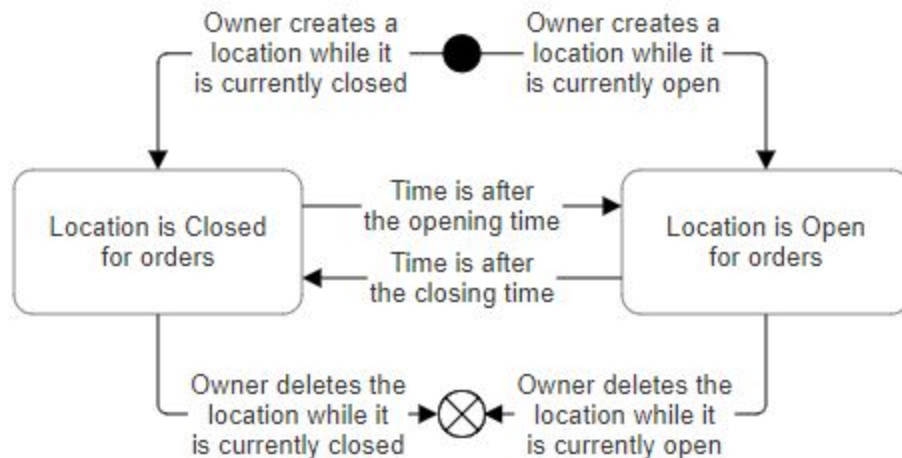
Item Expiration Notification



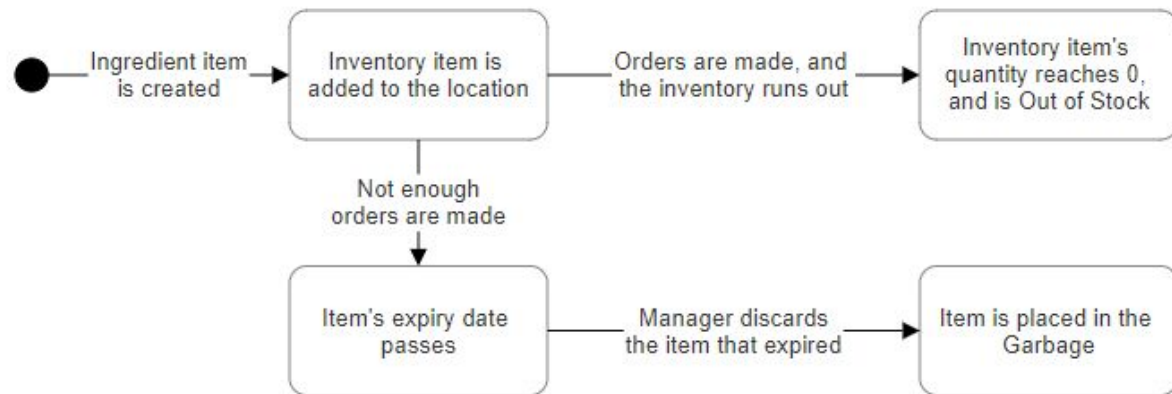
State Diagrams



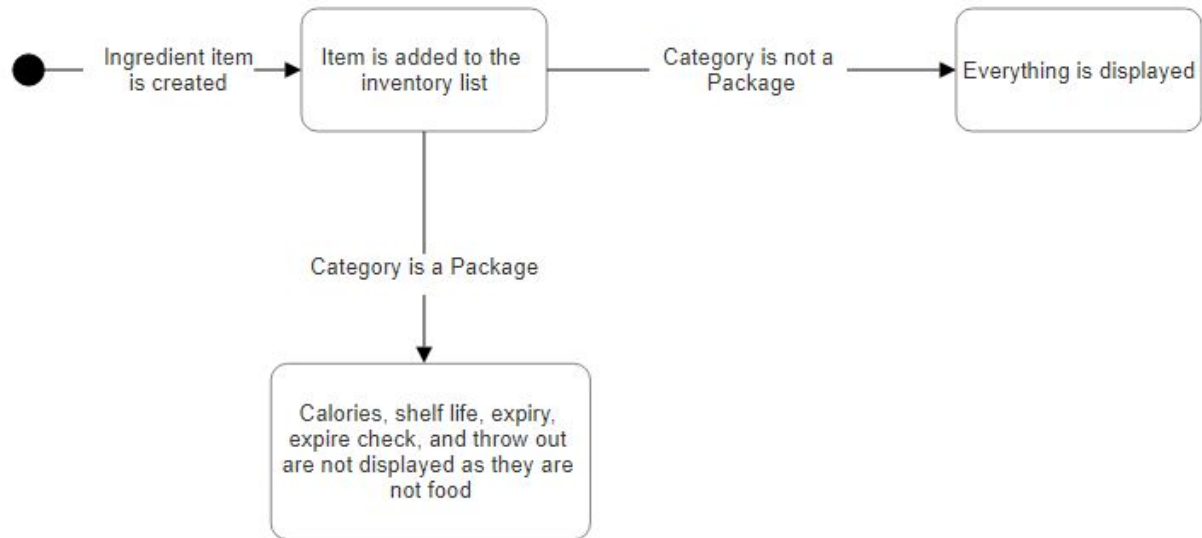
Location State Diagram



Inventory State Diagram



Inventory Category State Diagram



Implementation



Database

Models → Location.cs

Models → Inventory.cs

Data → ApplicationDbContext.cs

| | LocationId | locationCity | locationProvince | locationAddress | LocationName | DisplayName | ClosingTime | OpeningTime |
|---|------------|---------------|------------------|--------------------|---------------|---|------------------|------------------|
| 1 | 1 | Barrie | ON | 29 McAvoy Dr. | Mikey's Place | Mikey's Place - Barrie ON 29 McAvoy Dr. | 23:00:00.0000000 | 09:00:00.0000000 |
| 2 | 3 | Hawkestone | Ontario | 5 Booth Street | Burger Pit | Burger Pit - Hawkestone Ontario 5 Booth Street | 17:00:00.0000000 | 06:00:00.0000000 |
| 3 | 7 | Barrie | Ontario | 80 Barrie View Dr. | McDonalds | McDonalds - Barrie Ontario 80 Barrie View Dr. | 16:07:00.0000000 | 06:00:00.0000000 |
| 4 | 9 | Bikini Bottom | Ocean | 4 Water Drive | Krusty Krab | Krusty Krab - Bikini Bottom Ocean 4 Water Drive | 17:00:00.0000000 | 09:00:00.0000000 |

| | InventoryId | quantity | itemDeliveryDate | LocationId | itemExpiry | itemExpireCheck | itemThrowOutCheck | Category | calories | itemCost | itemDescription | itemName | itemShelfLife | Outline | MessageSent |
|---|-------------|----------|-----------------------------|------------|-----------------------------|-----------------|-------------------|----------|----------|----------|------------------|-------------|---------------|---------|-------------|
| 1 | 23 | 100 | 2023-11-20 14:28:00.0000000 | 1 | 2024-01-04 14:28:00.0000000 | 1 | 0 | 1 | 45 | 0.75 | red and juicy | Tomato | 14 | 1 | 0 |
| 2 | 24 | 0 | 2023-11-20 16:30:15.5838918 | 1 | 0001-01-01 00:00:00.0000000 | 0 | 0 | 2 | 10 | 0.50 | Heinz ketchup | Ketchup | 7 | 7 | 0 |
| 3 | 25 | 0 | 2023-11-20 16:30:15.6075940 | 3 | 0001-01-01 00:00:00.0000000 | 0 | 0 | 2 | 10 | 0.50 | Heinz ketchup | Ketchup | 7 | 7 | 0 |
| 4 | 26 | 0 | 2023-11-21 11:54:21.9073042 | 1 | 0001-01-01 00:00:00.0000000 | 0 | 0 | 6 | 0 | 0.05 | Wraps the burger | Burger Wrap | 0 | 8 | 0 |
| 5 | 27 | 0 | 2023-11-21 11:54:21.9111571 | 3 | 0001-01-01 00:00:00.0000000 | 0 | 0 | 6 | 0 | 0.05 | Wraps the burger | Burger Wrap | 0 | 8 | 0 |
| 6 | 28 | 1000 | 2023-11-21 11:54:00.0000000 | 1 | 0001-01-01 00:00:00.0000000 | 0 | 0 | 6 | 0 | 0.05 | Wraps the burger | Burger Wrap | 0 | 8 | 0 |



Location List

Views → Locations → index.cshtml

Locations

[Create New](#)

| Name | Store Location | Inventory | |
|---------------------------|------------------------------------|----------------------|---|
| Mikey's Place | Barrie ON 29 McAvoy Dr. | View | Edit Details Delete |
| Burger Pit | Hawkestone Ontario 5 Booth Street | View | Edit Details Delete |
| McDonalds | Barrie Ontario 80 Barrie View Dr. | View | Edit Details Delete |
| Krusty Krab | Bikini Bottom Ocean 4 Water Drive | View | Edit Details Delete |
| 24 Hour Burgers @Lakehead | Orillia Ontario 500 University Ave | View | Edit Details Delete |



Create New Location

Views → Locations → Create.cshtml

Controllers → LocationsController.cs

Create Location

Name

City

Province

Address

Opening Time

Closing Time

Create

[Back to List](#)



Edit Location

Views → Locations → Edit.cshtml

Controllers → LocationsController.cs

Edit Location

Name

Mikey's Place

City

Barrie

Province

ON

Address

29 McAvoy Dr.

Opening Time

09:00 AM



Closing Time

11:00 PM



Save

[Back to List](#)



Delete Inventory

Views → Locations → Delete.cshtml

Controllers → LocationsController.cs

Delete

Are you sure you want to delete this?
Location

| | |
|-----------------|---------------------------|
| Name | 24 Hour Burgers @Lakehead |
| City | Orillia |
| Province | Ontario |
| Address | 500 University Ave |

Delete | [Back to List](#)

Inventory List

Views → Inventories → index.cshtml

Inventory

[Add a Shipment](#)

| Category | Name | Quantity | Calories | Shelf Life(days) | Delivery Date | Expiry | Expire Check | |
|-----------|-------------|----------|----------|------------------|---------------|------------|-------------------------------------|---|
| Condiment | Ketchup | 0 | 10 | 7 | 2023-11-20 | 0001-01-01 | <input type="checkbox"/> | Details Throw Out |
| Package | Burger Wrap | 0 | | | 2023-11-21 | | | Details |
| Package | Burger Wrap | 1000 | | | 2023-11-21 | | | Details |
| Package | Burger Wrap | 5000 | | | 2023-11-21 | | | Details |
| Topping | Tomato | 1 | 45 | 14 | 2023-10-18 | 2023-11-01 | <input type="checkbox"/> | Details Throw Out |
| Topping | Tomato | 1 | 45 | 14 | 2023-11-17 | 2023-12-01 | <input type="checkbox"/> | Details Throw Out |
| Bread | Bread | 100 | 5 | 5 | 2023-11-30 | 2023-12-05 | <input checked="" type="checkbox"/> | Details Throw Out |
| Meat | Meat | 1 | 150 | 7 | 2023-11-29 | 2023-12-06 | <input checked="" type="checkbox"/> | Details Throw Out |
| Topping | Tomato | 3 | 45 | 14 | 2023-12-04 | 2023-12-18 | <input checked="" type="checkbox"/> | Details Throw Out |
| Topping | Tomato | 100 | 45 | 14 | 2023-11-20 | 2024-01-04 | <input checked="" type="checkbox"/> | Details Throw Out |

[Balance Sheet](#)

[View Garbage](#)



Add a Shipment

Views → Inventories → Create.cshtml

Controllers → InventoriesController.cs

New Shipment Inventory

Ingredient

Quantity

Delivery Date



Location

Create



Garbage

Views → Inventories → ThrownOutItems.cshtml

Controllers → InventoriesController.cs

Garbage

| Name | Expiry | Delivery Date | |
|--------|------------|---------------|----------------------|
| Tomato | 2023-11-01 | 2023-10-18 | Undo |
| Tomato | 2023-12-01 | 2023-11-17 | Undo |

Back



Balance Sheet

Views → Inventories → BalanceSheet.cshtml

Controllers → InventoriesController.cs

Balance Sheet

Equities

| Order Date | Order Total |
|------------------------------|-------------|
| 2023-11-20 2:35:33 PM | 1.99 |
| 2023-11-22 3:29:06 PM | 7.98 |
| 2023-11-24 9:29:46 PM | 7.98 |
| 2023-11-28 2:27:36 PM | 6.99 |
| 2023-11-28 4:35:15 PM | 6.99 |
| 2023-11-28 4:41:03 PM | 1.99 |
| 2023-11-28 4:47:28 PM | 6.99 |
| Total Item Equities: \$40.91 | |

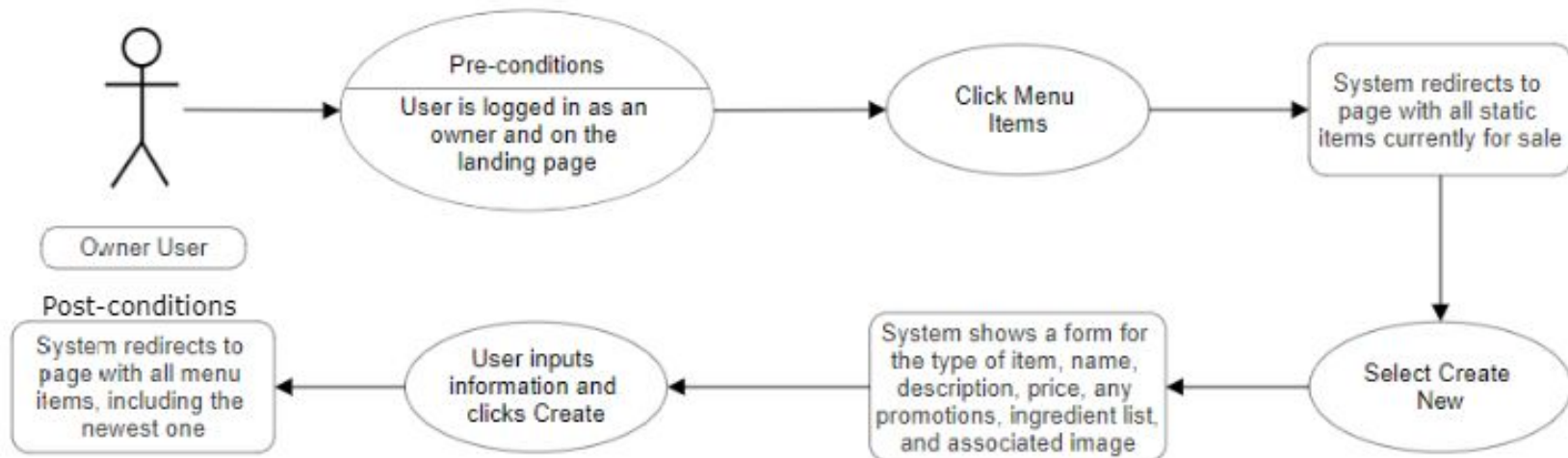
Order Items

Static Items and Custom Items

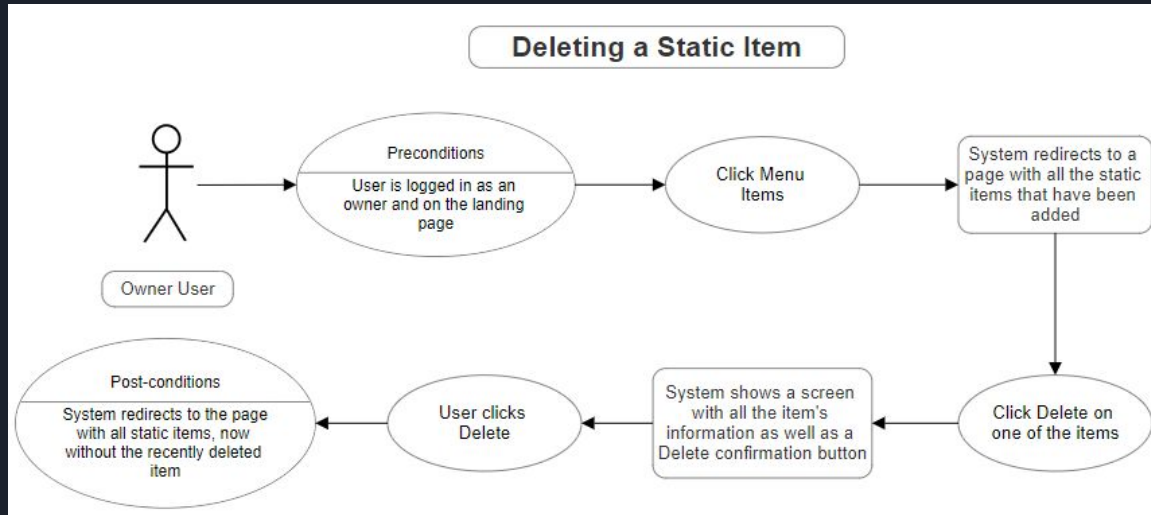
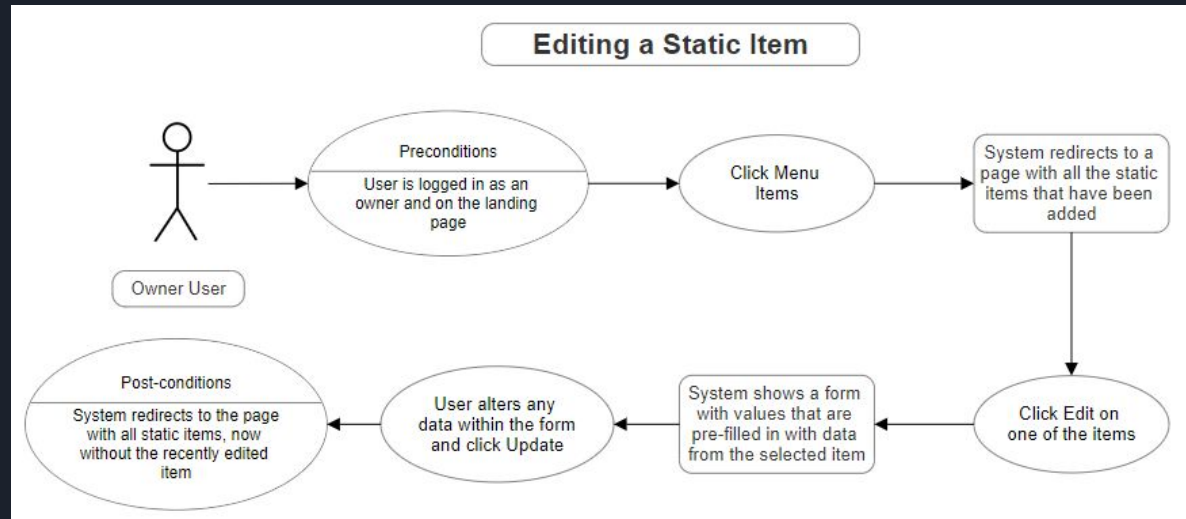


Use Cases

Adding A Static Item to the Menu

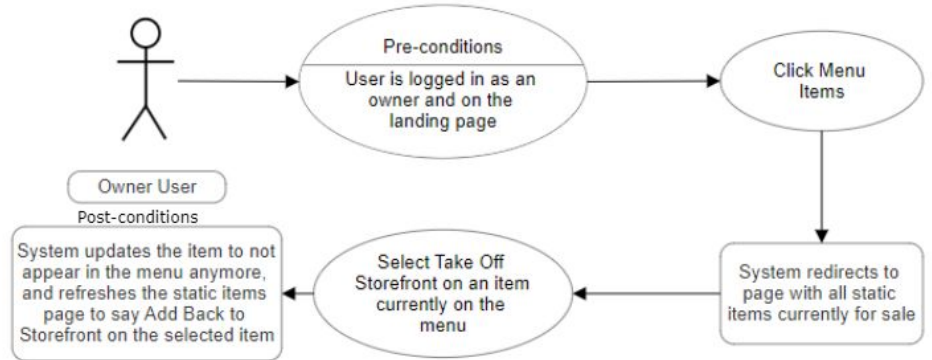


Use Cases

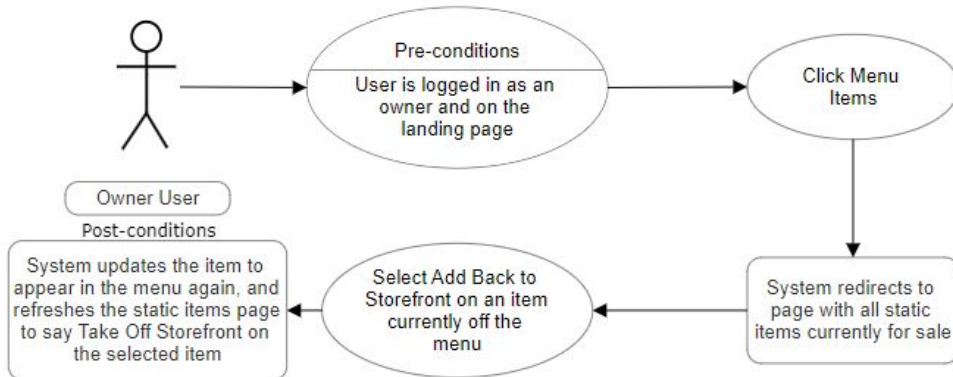


Use Cases

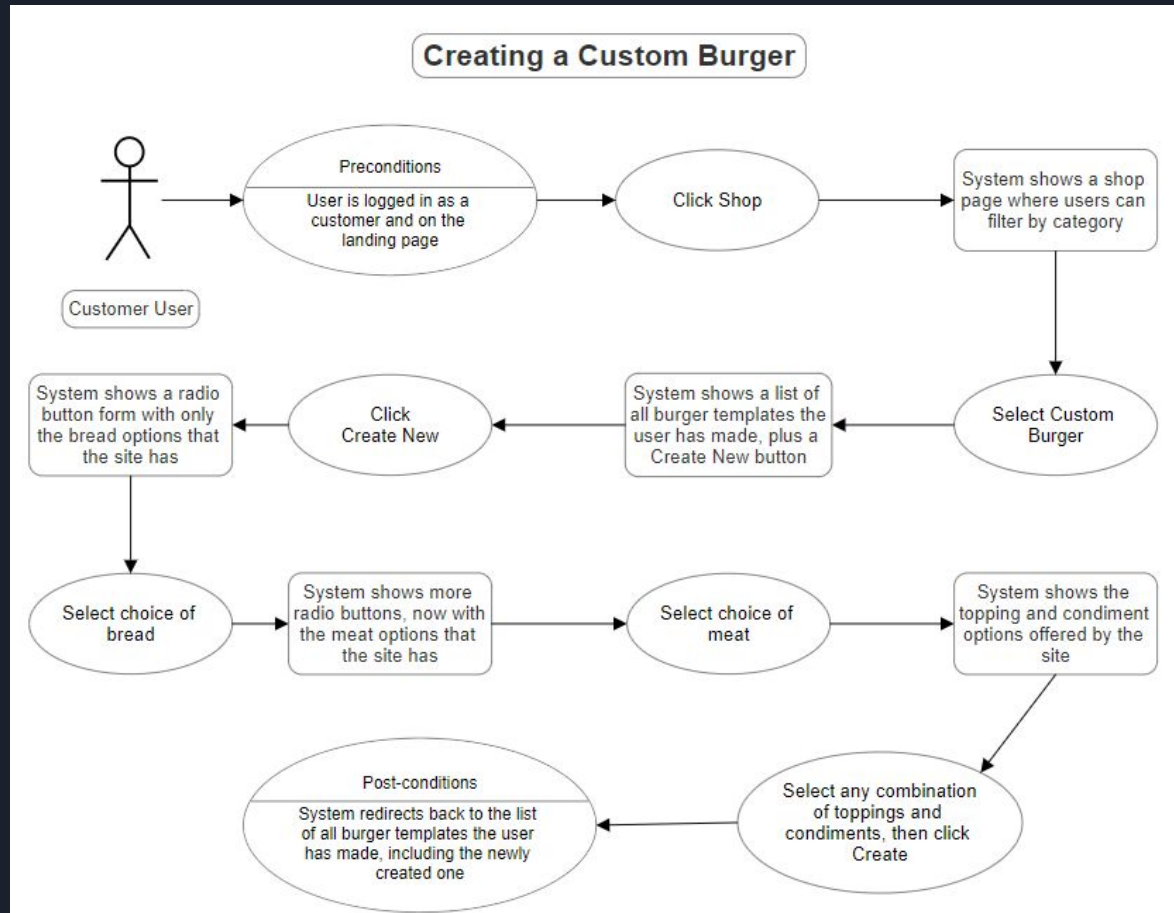
Taking A Static Item off the Menu



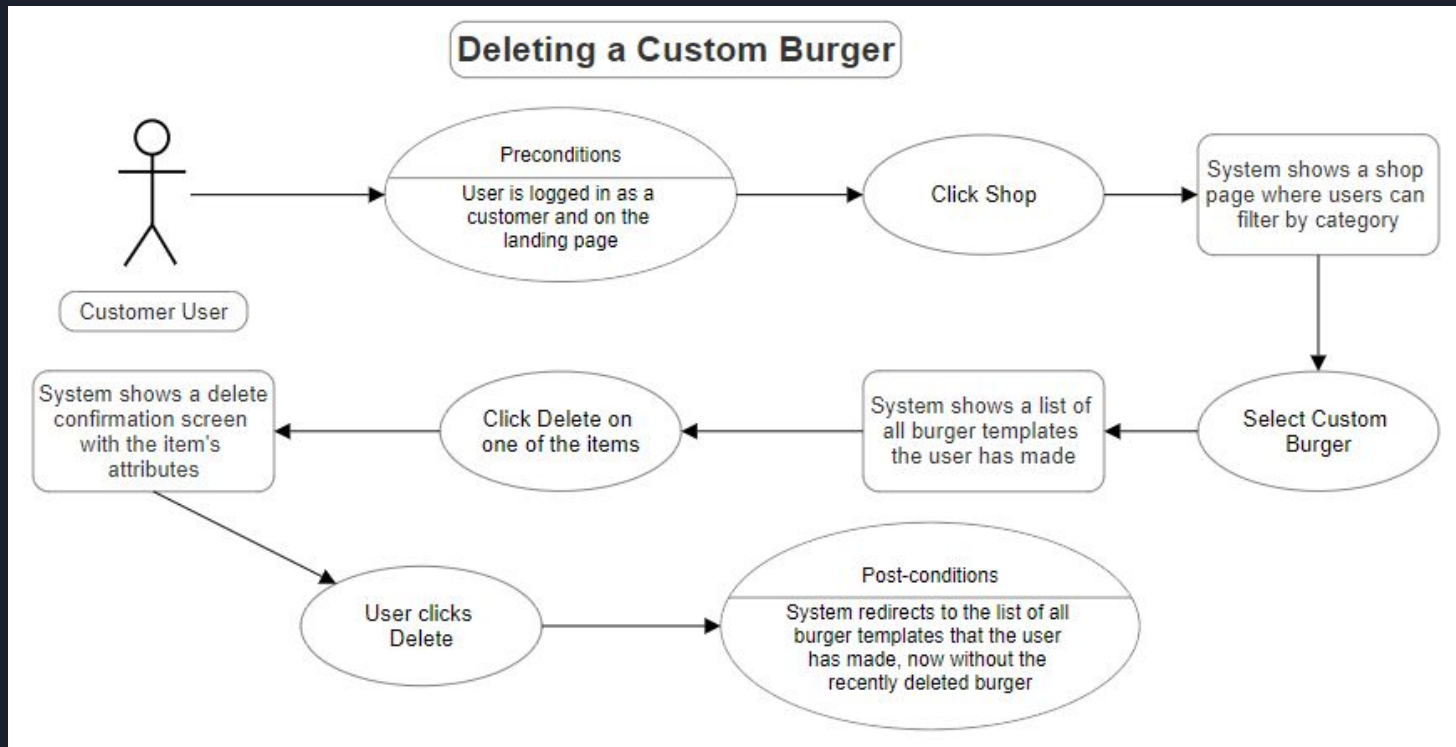
Adding A Static Item back on the Menu



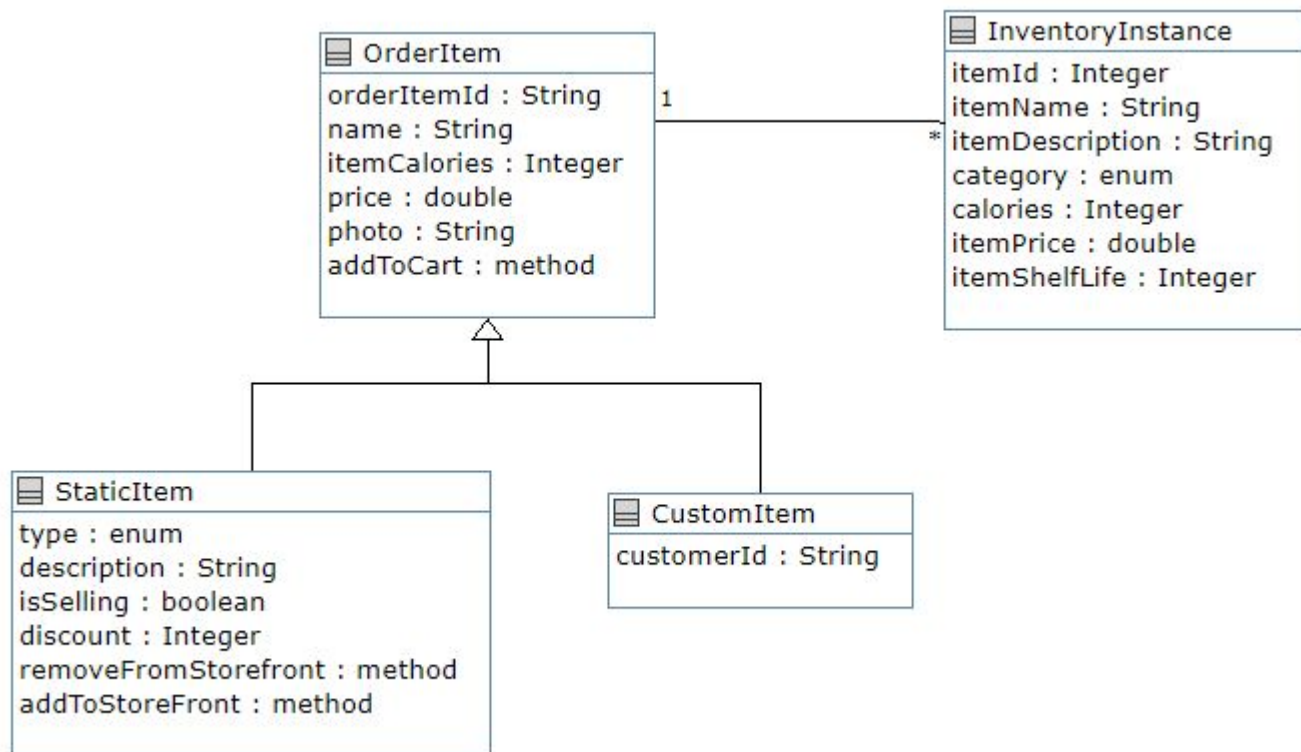
Use Cases



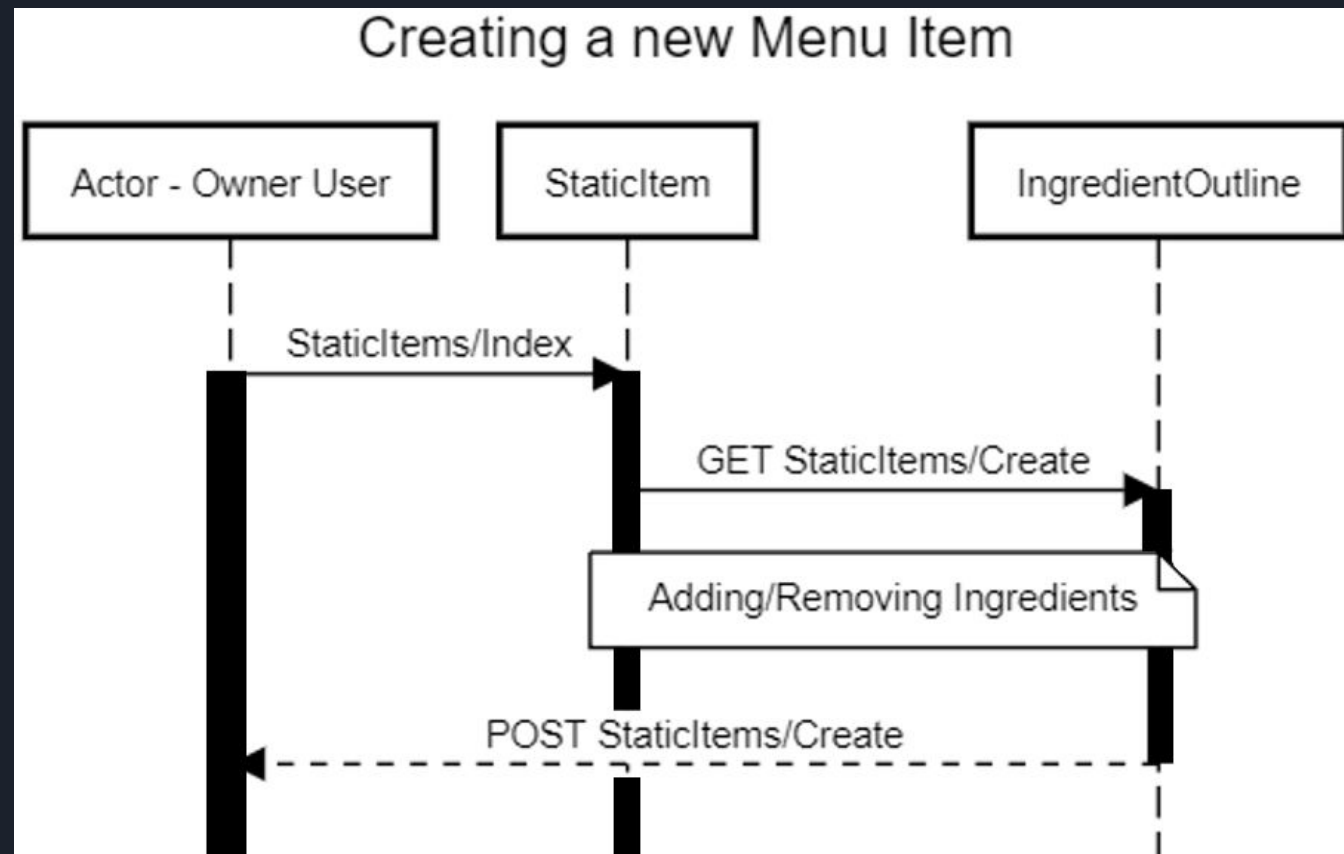
Use Cases



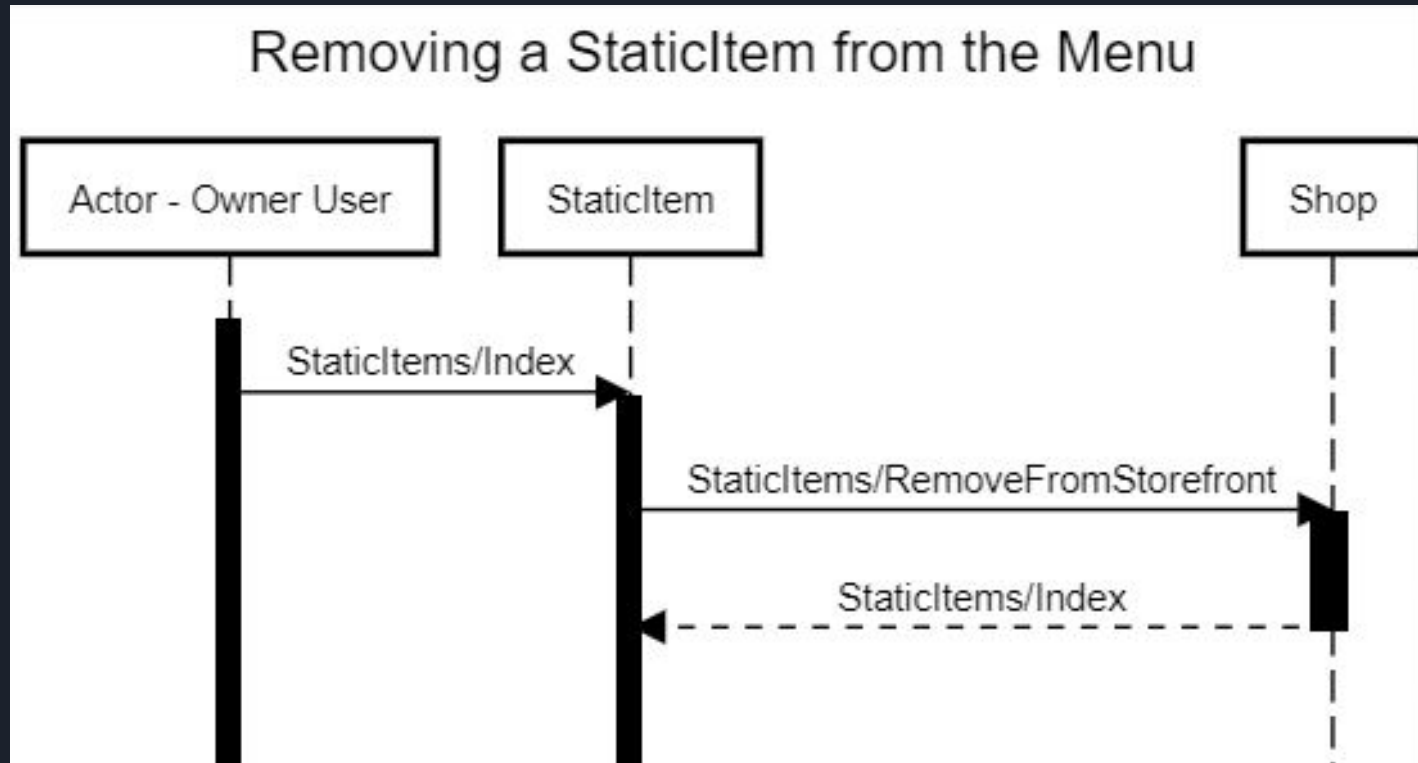
UML Classes



Sequence Diagrams

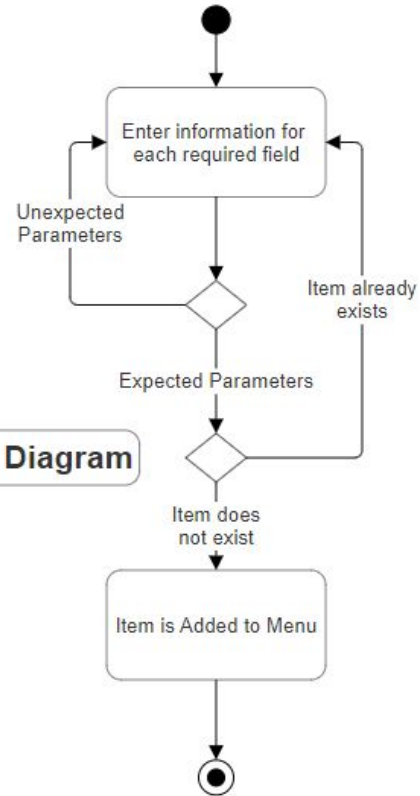


Sequence Diagrams

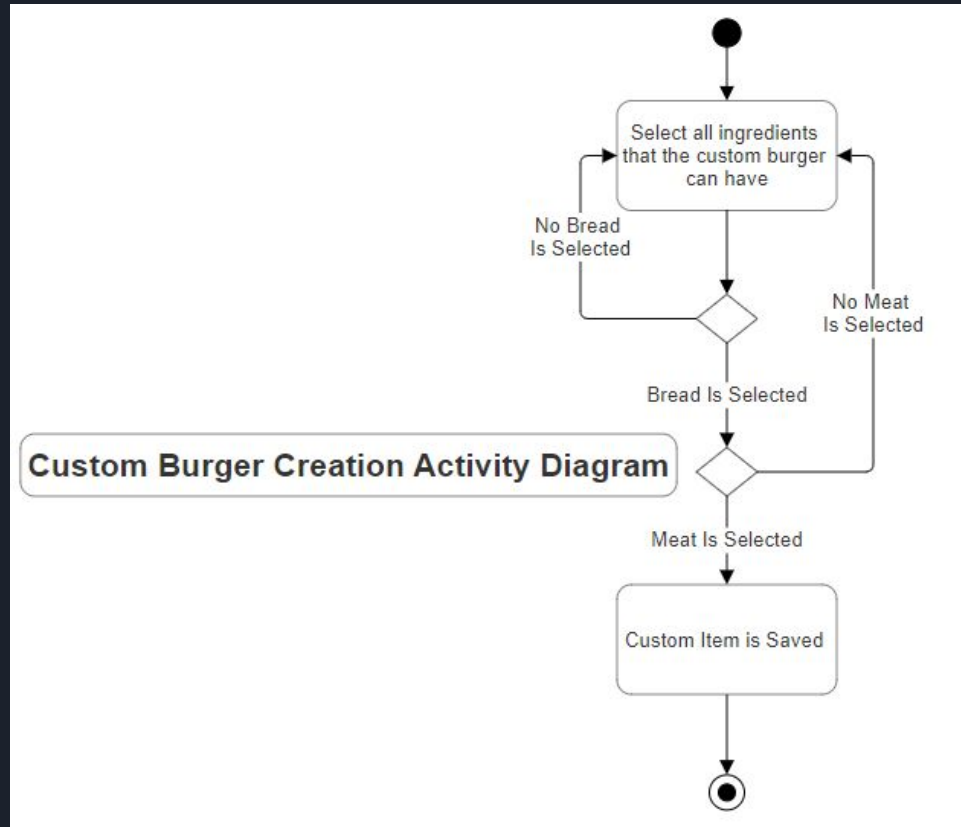


Activity Diagrams

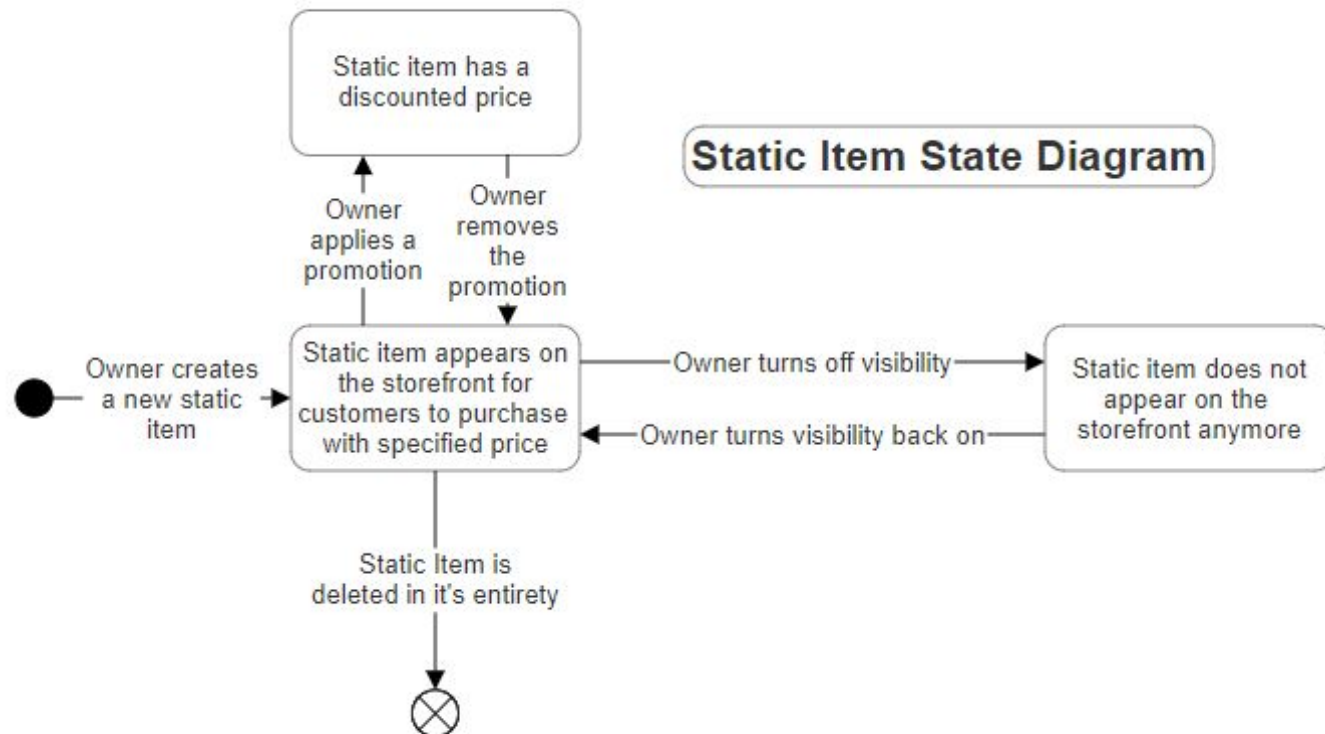
Menu Item Creation Activity Diagram



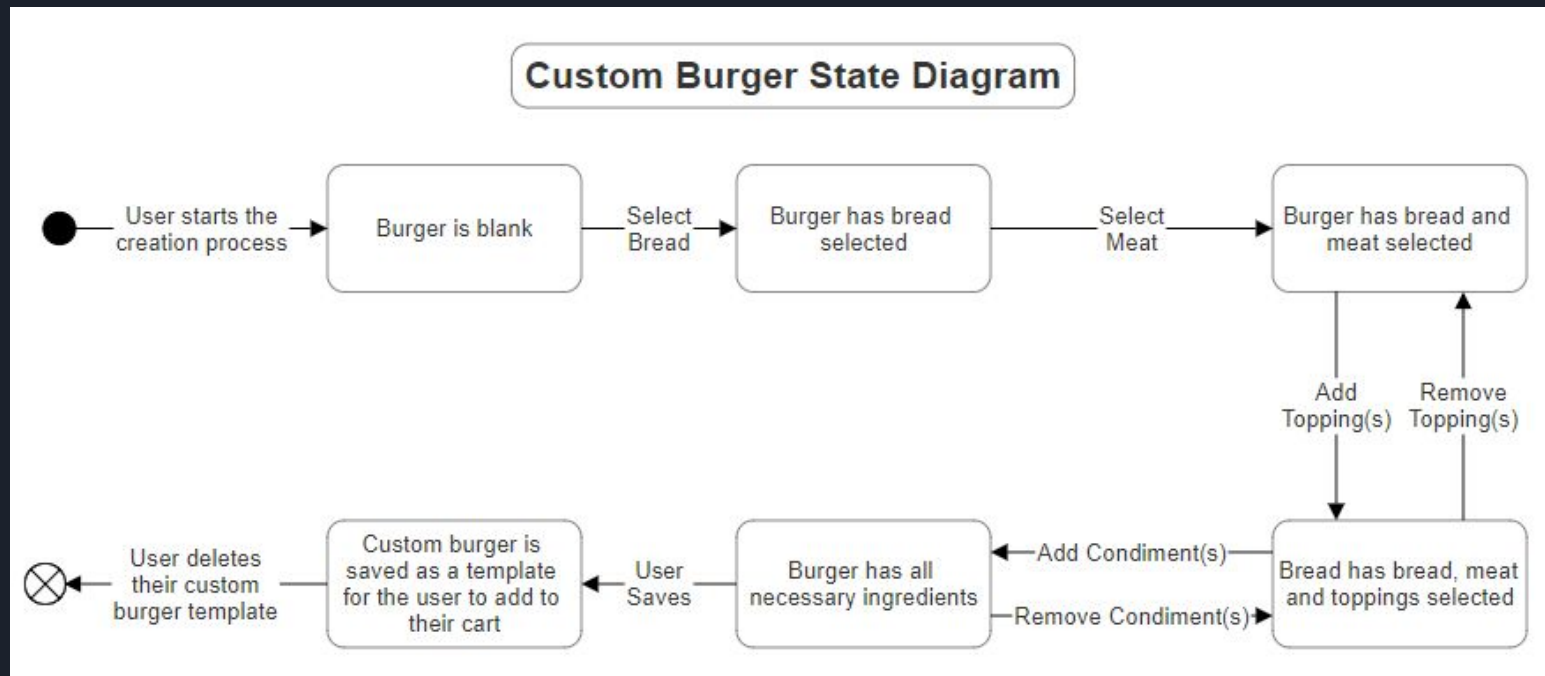
Activity Diagrams



State Diagrams



State Diagrams





Implementation

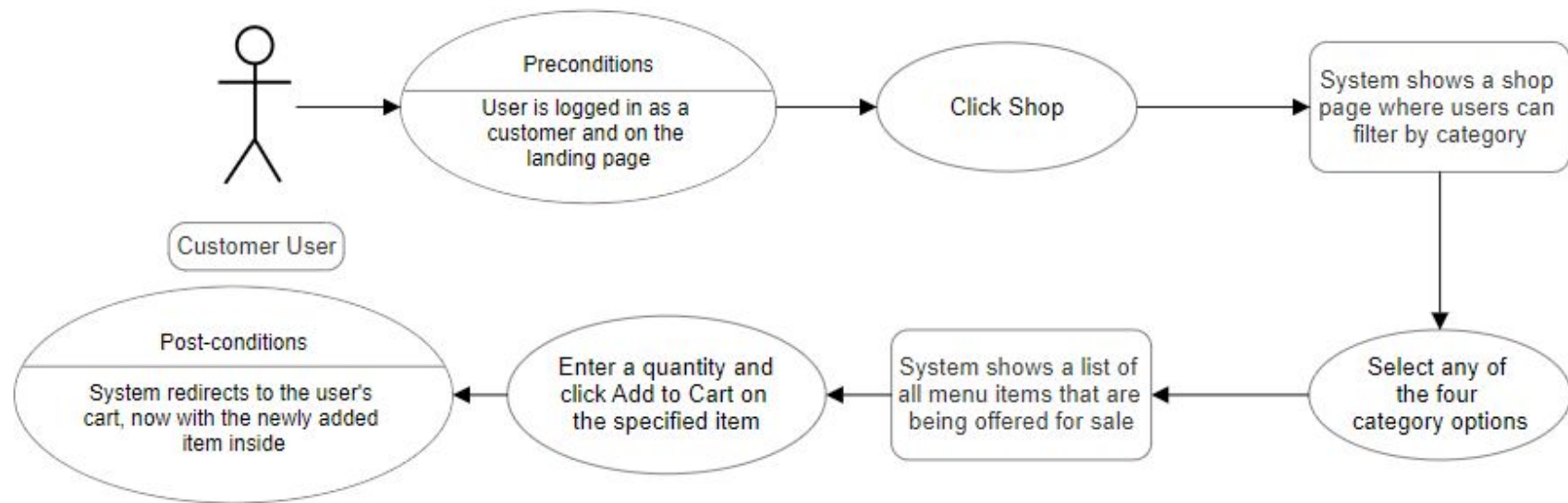
Demo Time!

Cart, Order, and Shop

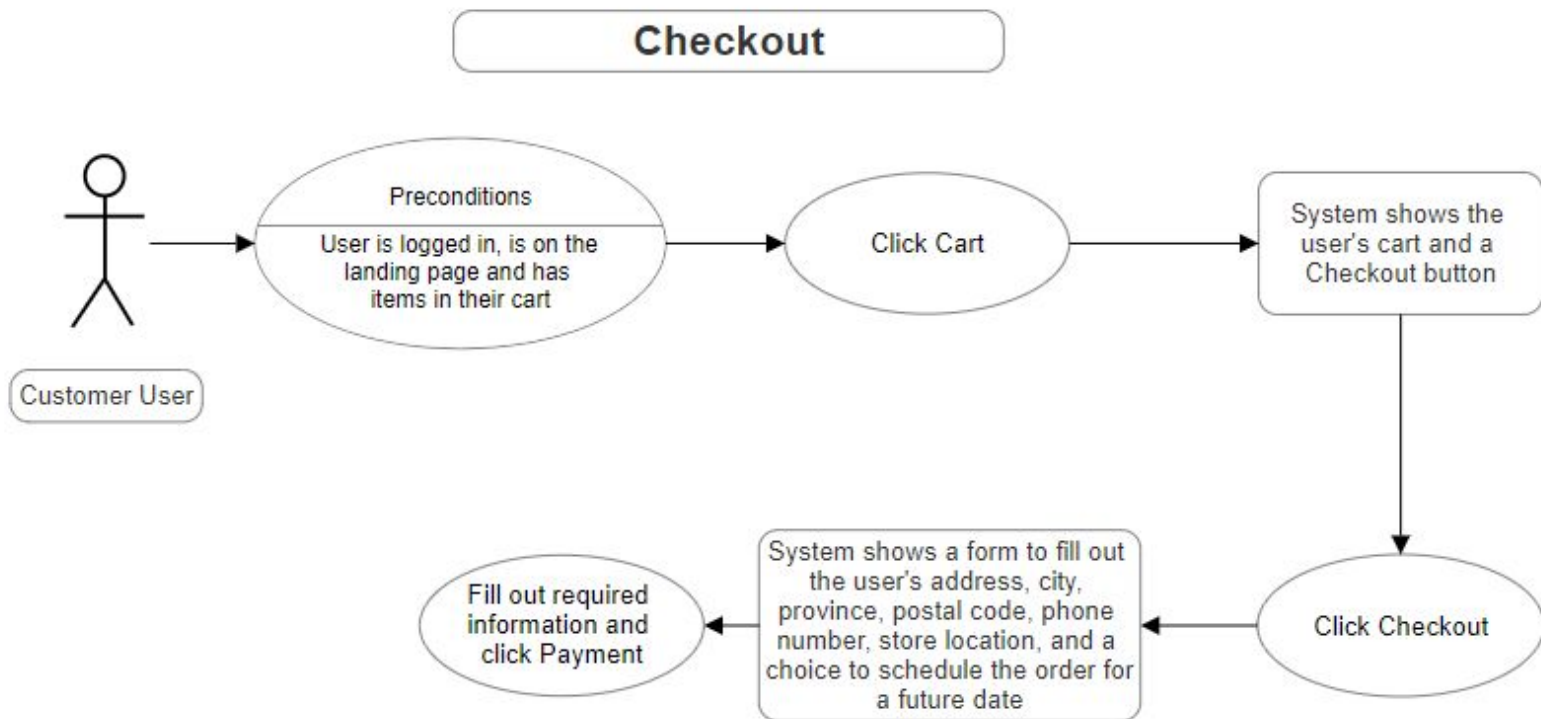


Use cases

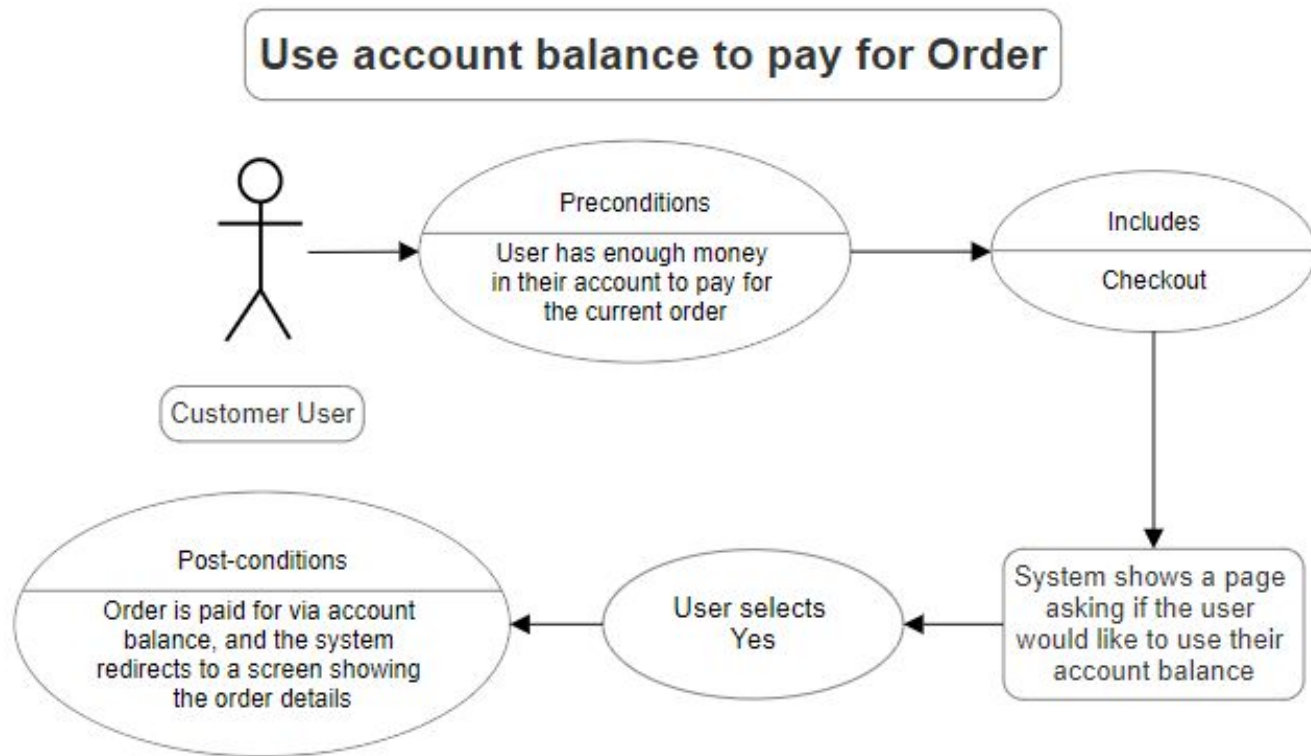
Add a Menu Item to the Cart



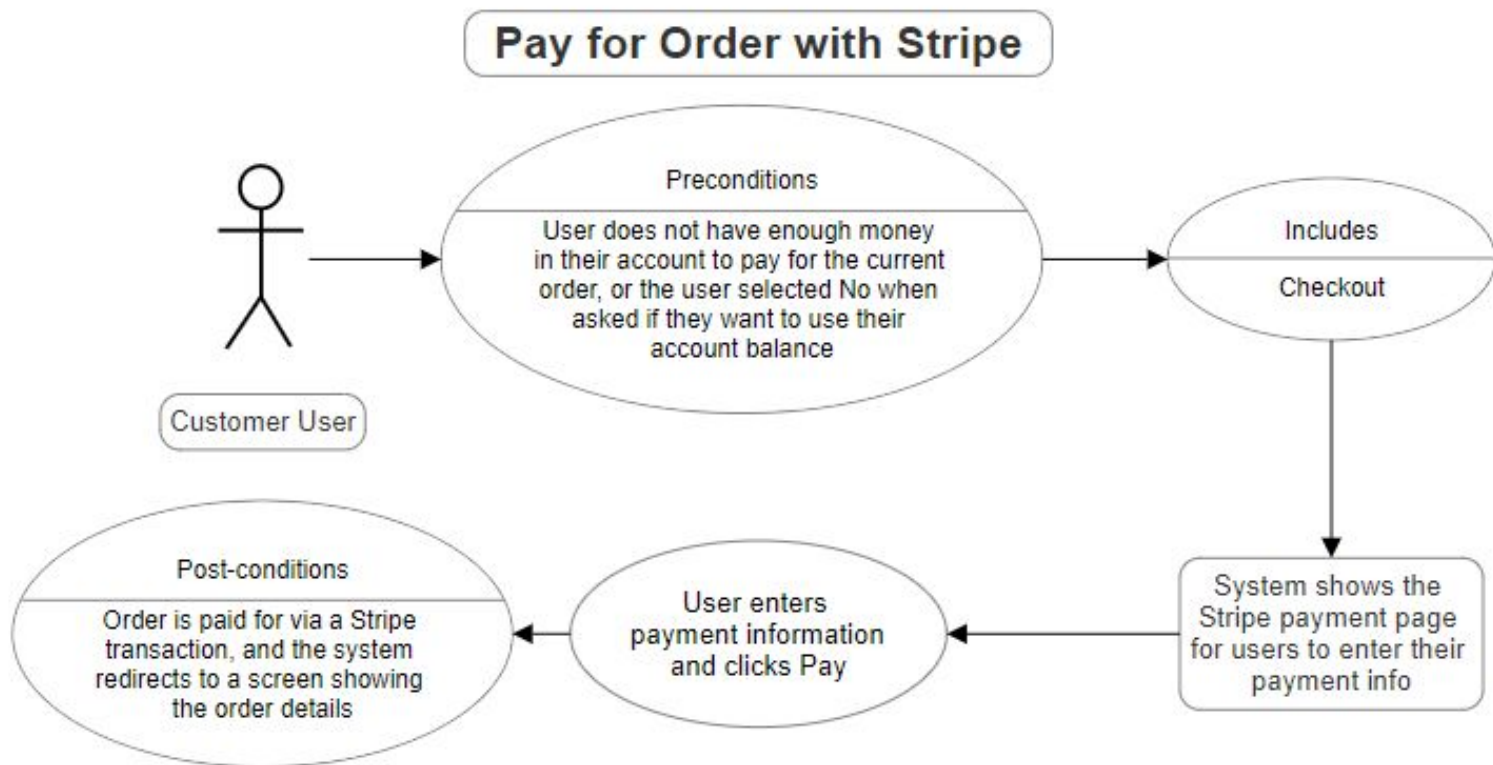
Use cases



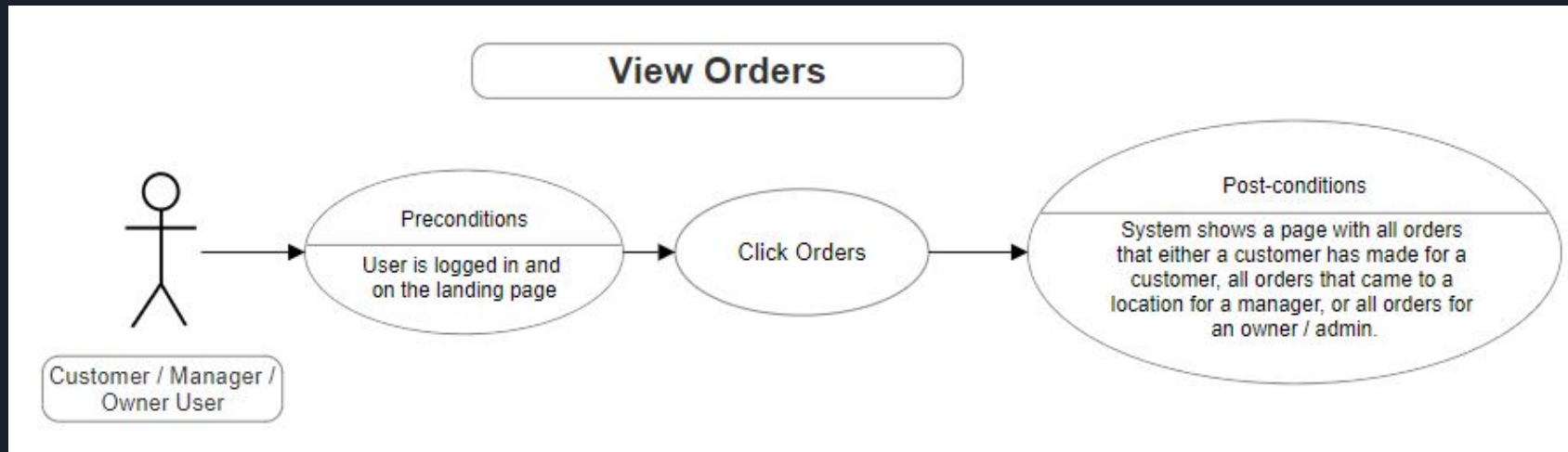
Use cases



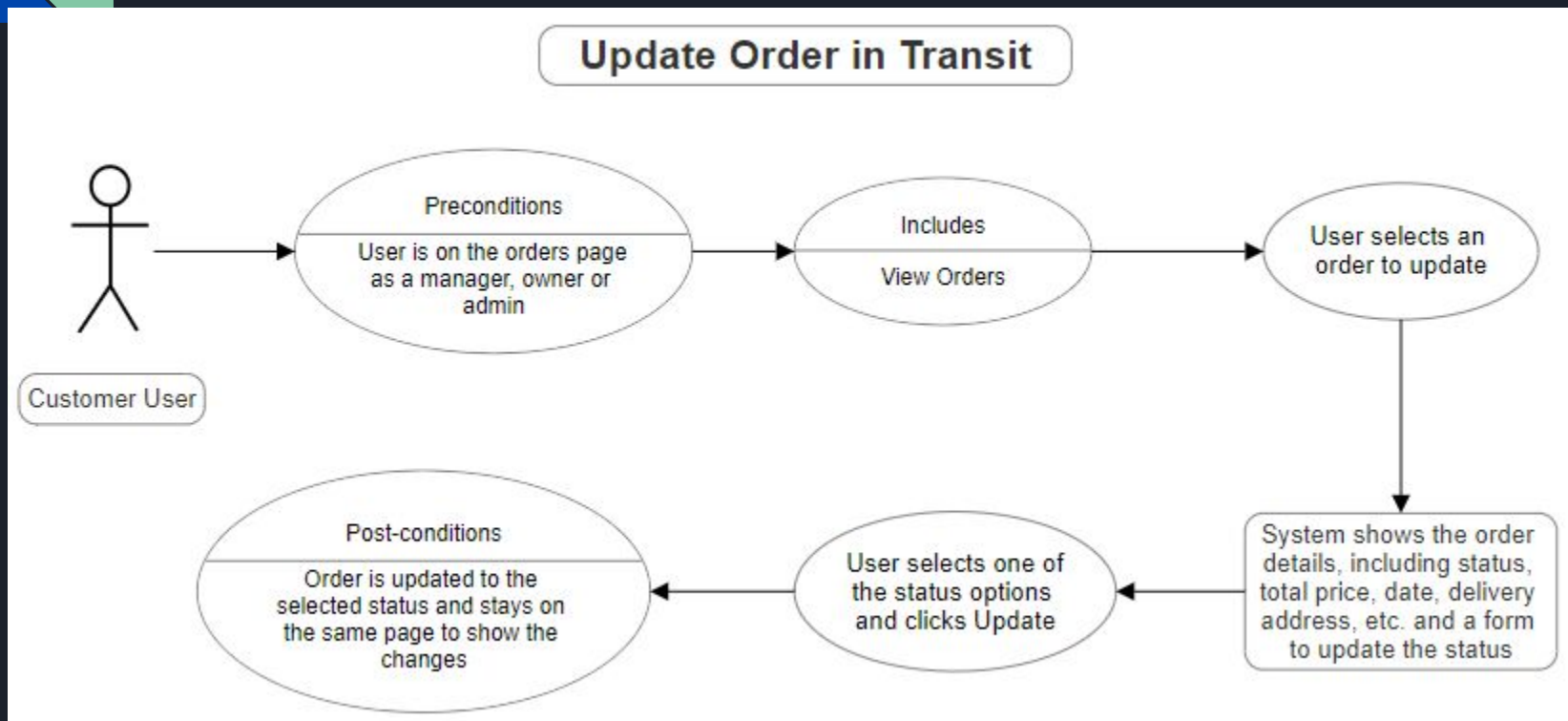
Use cases



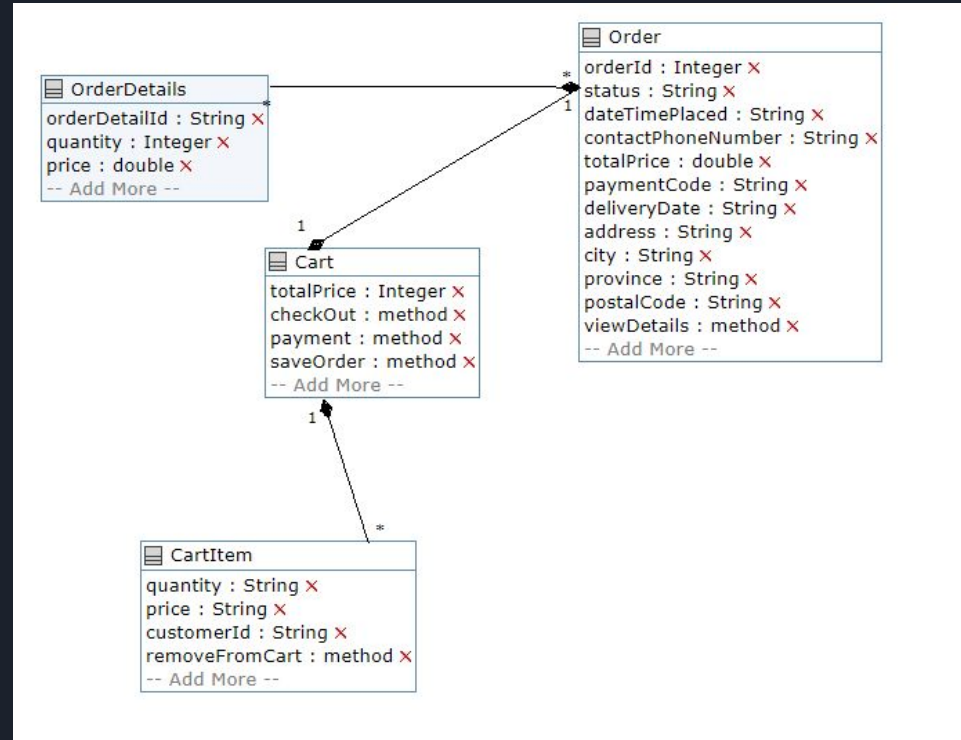
Use cases



Use cases

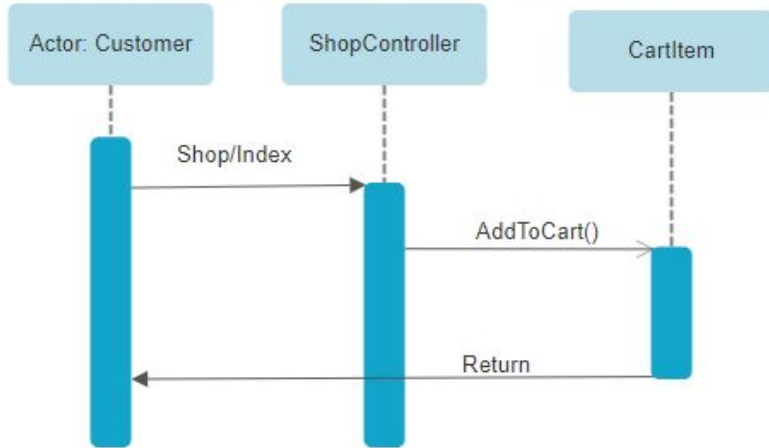


UML Classes

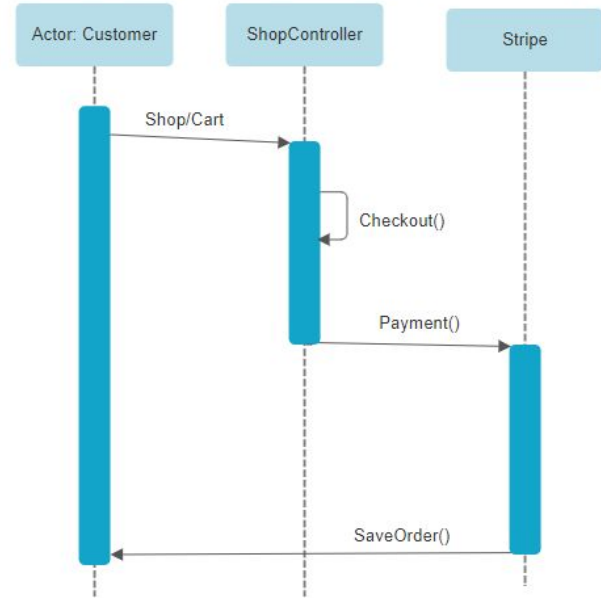


Sequence Diagrams

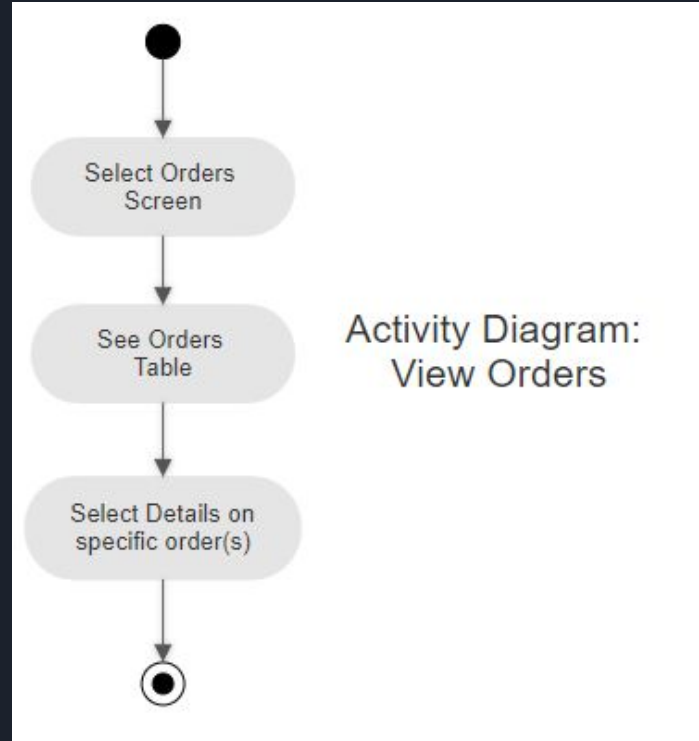
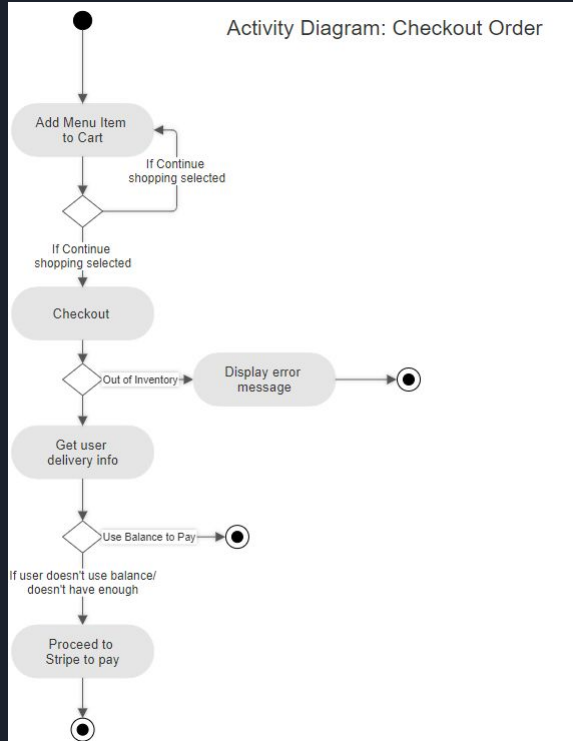
Sequence Diagram: Adding Item to cart



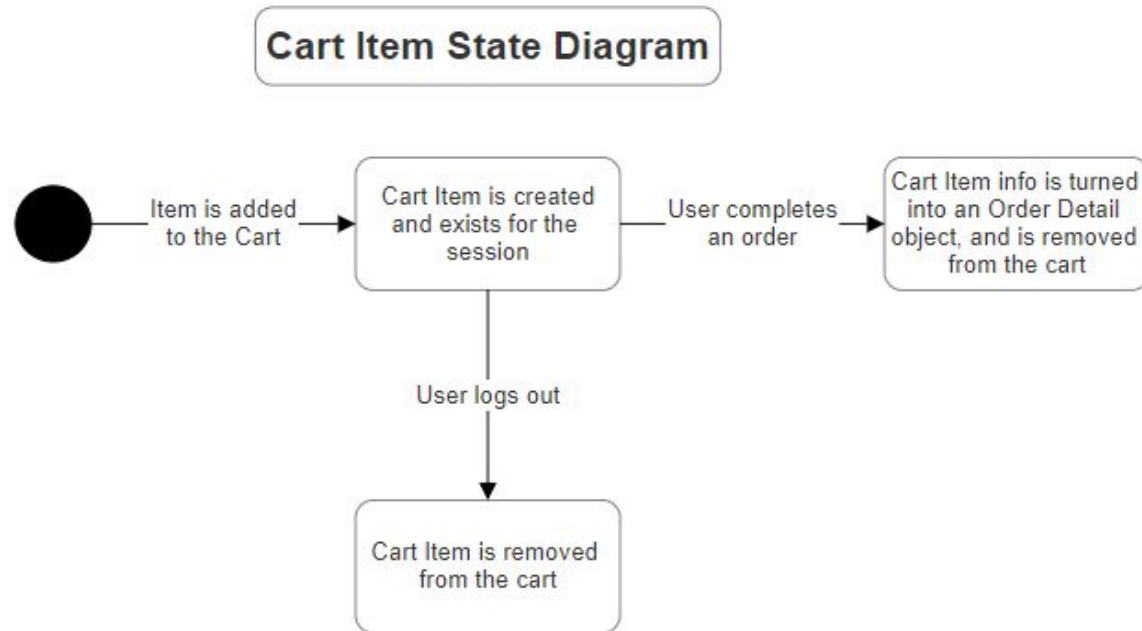
Sequence Diagram: Checking out with stripe



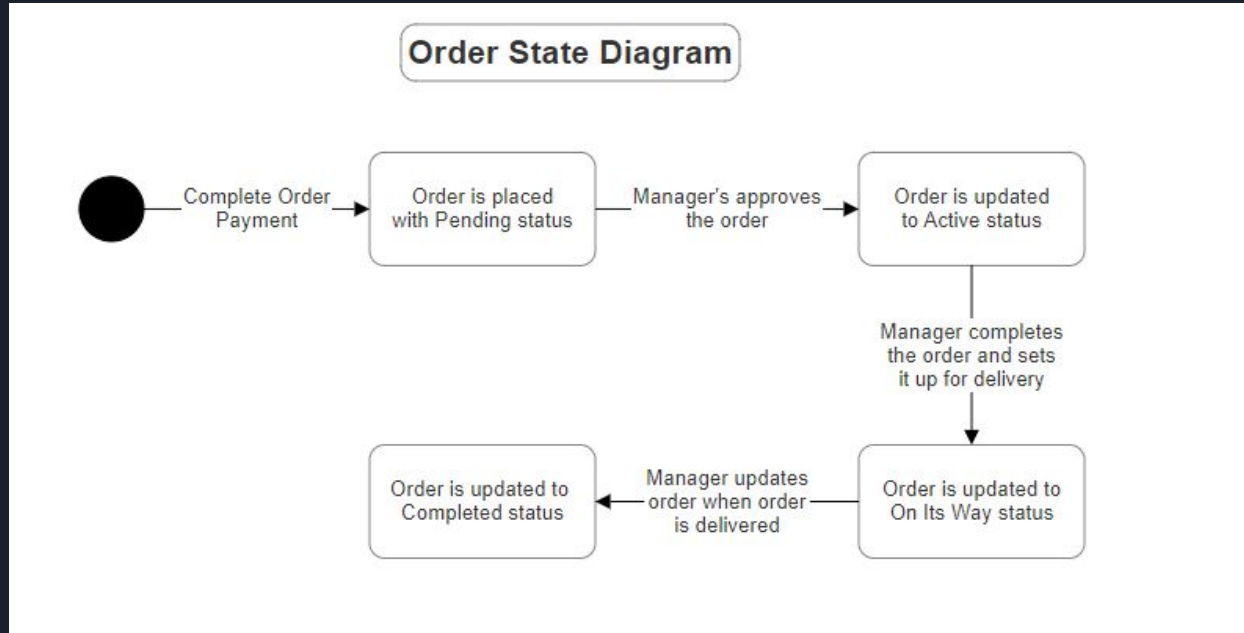
Activity Diagrams



State Diagrams



State Diagrams





Live Demo!



Testing and QA for burgerBurger

Featuring a demo from Mikey!

What else would we
implement?





Powerbi for Customer data



Power BI

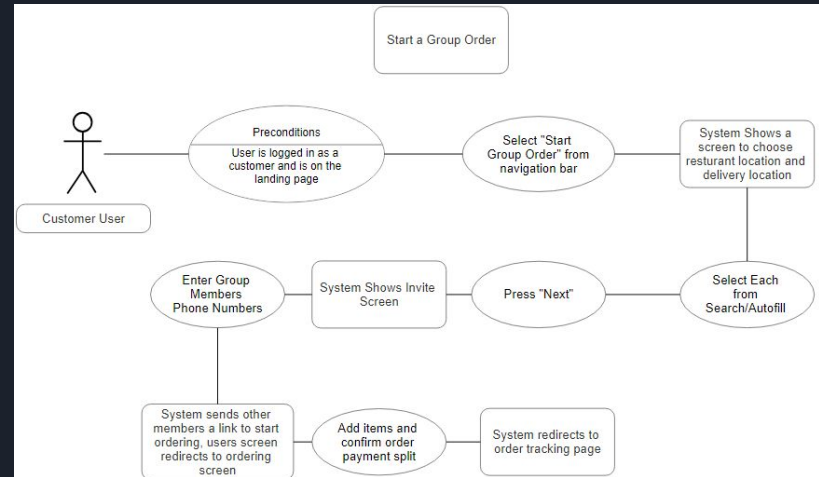
Party Mode

-The one part of it we were able to implement was scheduling orders

What we wanted to add

-Allow multiple customer accounts to pay for 1 order

-Distribute pay between accounts



AODA Compliance



Ontario

ACCESSIBILITY FOR ONTARIANS
WITH DISABILITIES ACT (AODA)

WCAG 2.0 A and AA checklist

As you test your digital asset for its level of accessibility, or partner with a company to conduct testing, the following checklist will serve as a helpful guide for meeting the WCAG 2.0 success criteria required for AODA compliance.

WCAG 2.0 Level A checklist

| Success Criteria | Description | Pass/Fail | Complete |
|--|---|---|--------------------------|
| 1.1.1 – Non-text Content | Provide text alternatives for non-text content | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.2.1 – Audio-only and Video-only (Prerecorded) | Provide an alternative to video-only and audio-only content | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.2.2 – Captions (Prerecorded) | Provide captions for video with audio | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.2.3 – Audio description or Media Alternative (Prerecorded) | Video with audio has a second alternative | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.3.1 – Info and Relationships | Logical structures | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.3.2 – Meaningful Sequence | Present content in a meaningful order | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.3.3 – Sensory Characteristics | Use more than one sense for instructions | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.4.1 – Use of Color | Don't use presentation that relies solely on color | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 1.4.2 – Audio Control | Don't play audio automatically | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |
| 2.1.1 – Keyboard | Accessible by keyboard only | <input type="radio"/> <input type="radio"/> | <input type="checkbox"/> |

Meal Combos

