

# Project Requirements & Analysis

## Team

- Seth Perry
- Sudeep Galgali
- Christina Nguyen

## Title

The Third Meal

## Project Summary

We want to create a website where customers can submit food orders for restaurants. The restaurant owners should be able to create and edit a profile and menus for their restaurants. Customers can create a profile for themselves. The customers should be able to browse the menu, place an order, and select how to pick up and pay for their orders. Once the order is placed, the restaurant owners can view, edit, and complete the order.

## Project Requirements

### Business Requirements

ID	Requirement	Topic Area	Actor	Priority
BR001	Provide options for delivery or store pickup	Orders	Customer	High
BR002	Verify if a customer is genuine	Authentication	Customer	Medium
BR003	Provide an option for payment methods	Orders / Payment	Restaurant owner	High
BR004	Track total number of orders	Orders	Restaurant owner / System	Low
BR005	Track total value of orders	Orders	Restaurant owner / System	High
BR006	Track time to fulfillment	Orders	Restaurant owner / System	Low

### User Requirements

ID	Requirement	Topic Area	Actor	Priority
UR001	Users should be able to place an order for a specific restaurant	Orders	Customer	High
UR002	Users should be able to see all the current active orders	Orders	Restaurant owner / Customer	High
UR003	Users should be able to add and edit menus for their restaurant	Store	Restaurant owner	High

ID	Requirement	Topic Area	Actor	Priority
UR004	Users should be able to cancel an active order	ORders	Customer / Restaurant owner	Medium
UR005	Users should be able to declare if the restaurant is open or closed	Store	Restaurant owner	High
UR006	Users should be able to create and edit their profiles	Profile	Customer / Restaurant owner	High
UR007	Users should be able to view a restaurant profile	Profile	Customer	High
UR008	Users should be able to update order status	OrdersUR	Restaurant owner	High
UR009	Users should be able to search for a restaurant	Store	Customer	High

## Non-functional Requirements

ID	Requirement	Topic Area	Priority
NF001	Order confirmations should be sent in under 30s	Performance	Medium
NF002	Orders updates (to restaurants) should be accurate to 30s	Performance	Medium
NF003	Accounts should be password-protected	Security	High
NF004	Data access should be well-segregated, allowing for database changes	Maintainabiliity	Medium
NF005	All transactions should be ACID compatible	Reliability	High
NF006	UI should confirm order with customers before sending order to restaurant owners	UX	High

## Use Cases

**Use Case:** Placing an Order

**ID:** UC001

**Description:** Customer searches for a restaurant and selects items from its menu. He is charged an amount based on the item prices in the menu. Restaurant owner ensures the items are prepared and then marks the status of the order. The customer then collects the order either from the store or from the delivery agent.

**Main Success Scenario:**

- Customer selects a restaurant.
- Customer views the restaurant profile and menu.
- Customer selects the desired items from the menu.
- Customer confirms the order.
- The order is viewed by the restaurant owner.
- Restaurant owner changes the status of the order.
- Once the order is ready it is either delivered or stored depending on which option is selected(delivery/store pickup).

**Primary Actor:** Customer

**Supporting Actors:** Restaurant Owner

**Pre-Conditions:**

- Customer must be logged in.
- Restaurant must be marked active by Owner.

**Post-Conditions:**

- Customer gets his order either via delivery or store pickup.
- Customer is charged an amount based on the item prices in the menu.
- Order is marked complete and no longer displayed among active orders in the orders view for the restaurant as well as the customer.

**Failure End Condition:**

- Order is marked cancelled and no longer displayed among active orders in the orders view for the restaurant as well as the customer.
- Customer is not charged any amount and is refunded if previously charged.

**Use Case:** Creating restaurant profile and menu

**ID:** UC002

**Description:** Restaurant Owner creates an account, adds the details of the restaurant and the menu.

**Main Success Scenario:**

- Restaurant Manager creates an account or logs in if it already exists
- Restaurant Manager navigates to restaurant profile
- Restaurant Manager selects Create Menu option on the UI
- Restaurant Manager enters the details of the items on the UI

**Primary Actor:** Restaurant Manager

**Supporting Actors:** None

**Pre-Conditions:**

- Restaurant Manager should be logged in.
- Restaurant Profile should exist.

**Post-Conditions:**

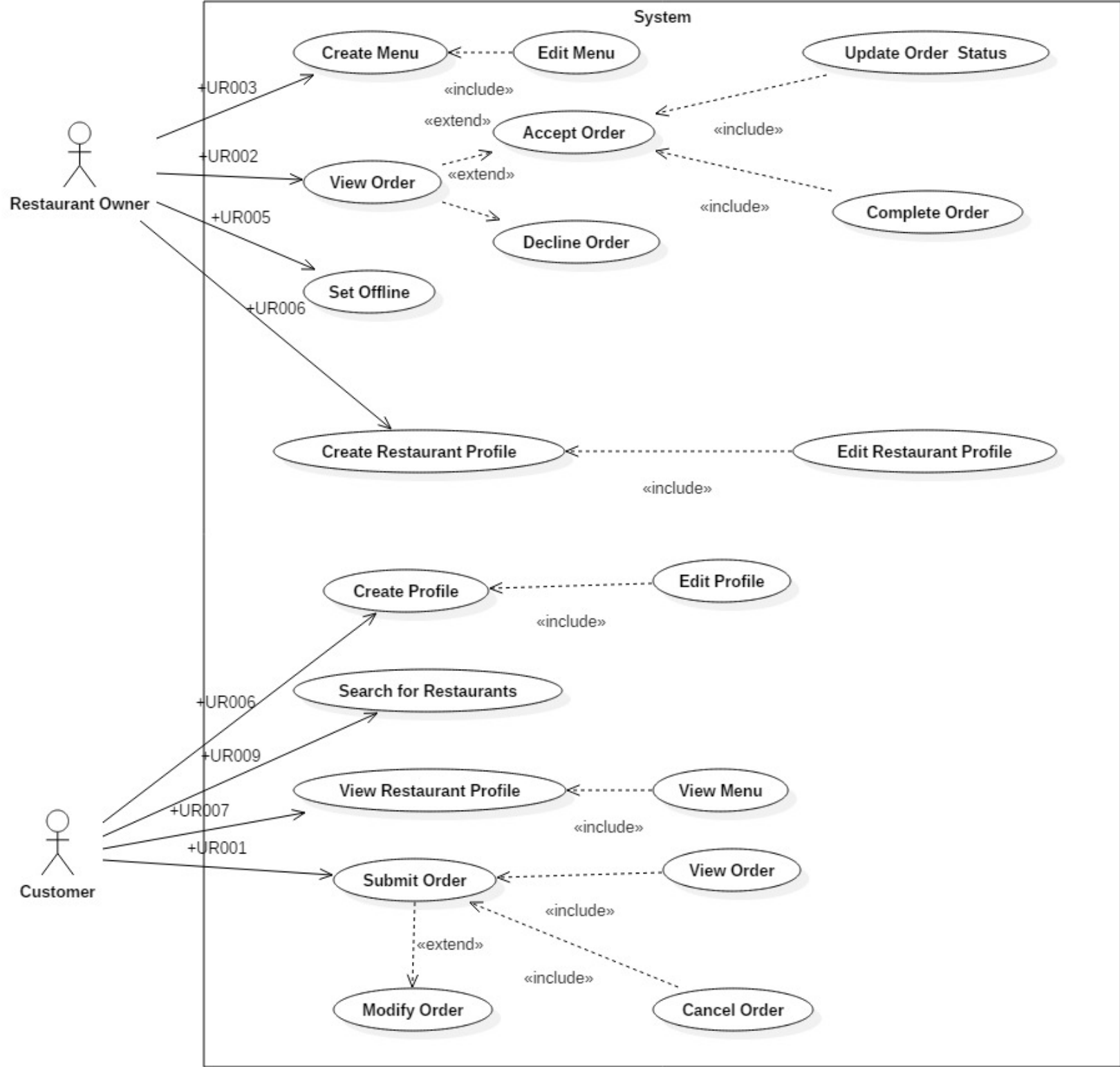
- The menu information associated with the restaurant is updated.

- The restaurant manager is shown a success prompt

**Failure End Condition:**

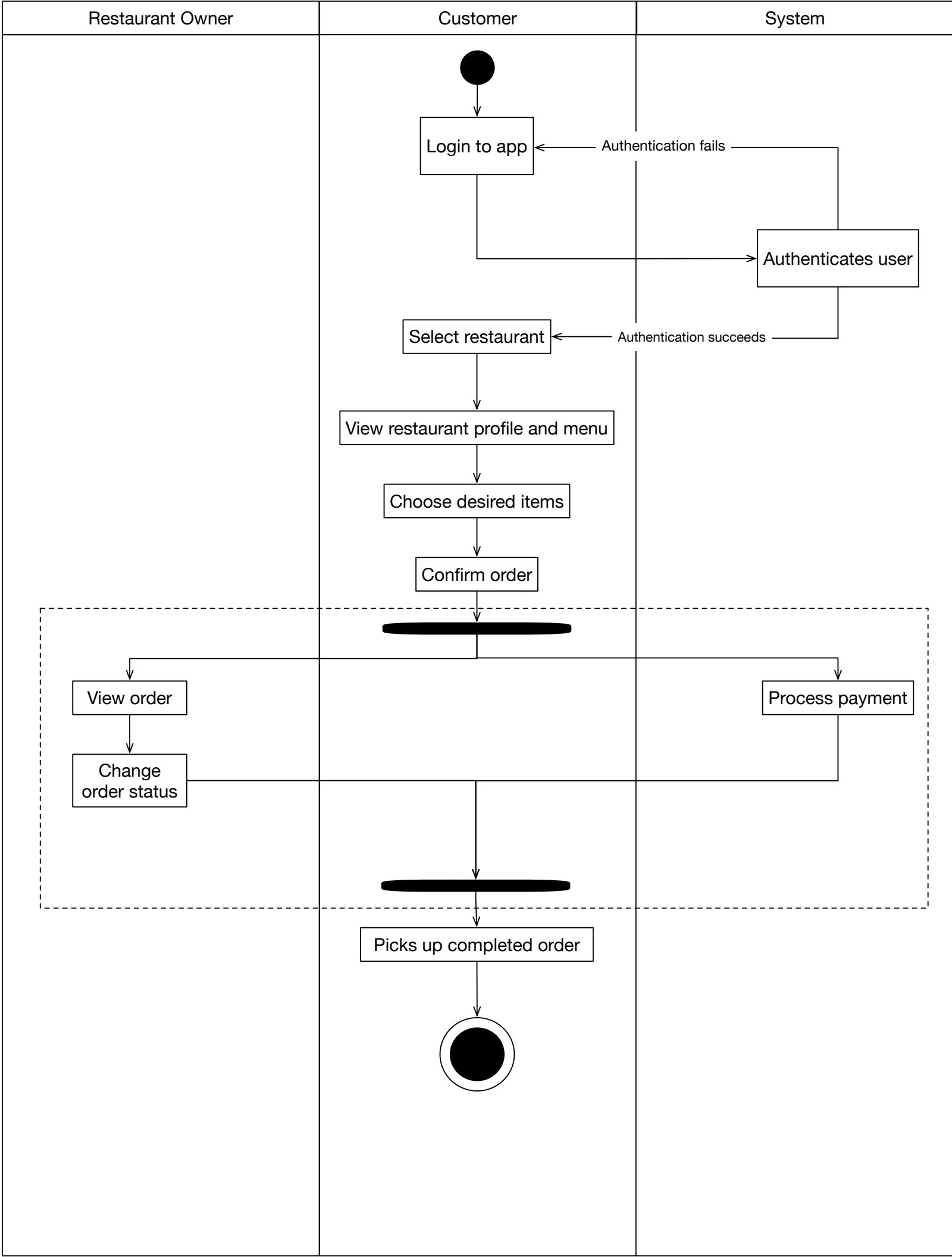
- The menu information associated with the restaurant is not updated
- The restaurant manager is shown a failed prompt

# Use Case Diagram



# Activity Diagram

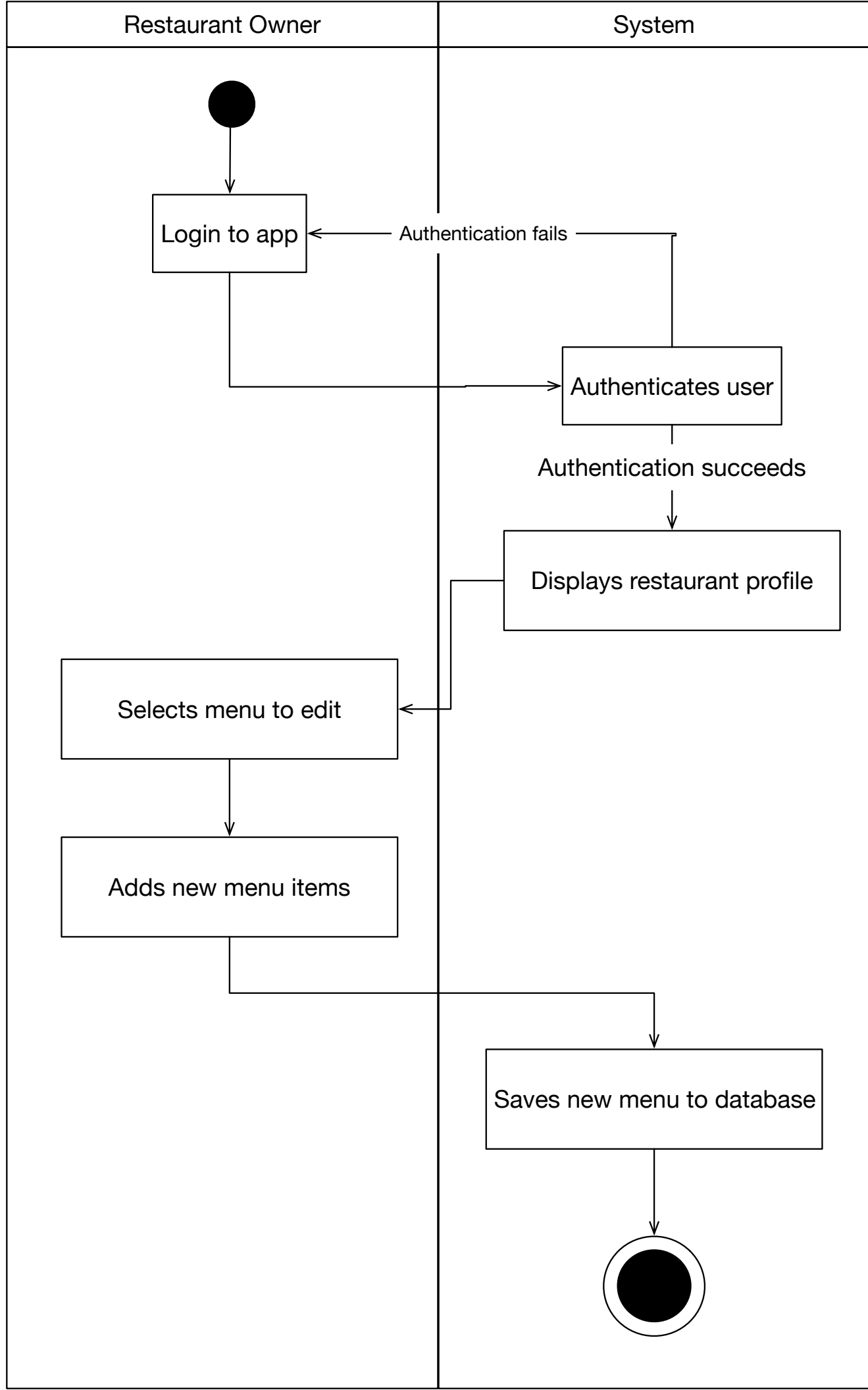
Placing an Order



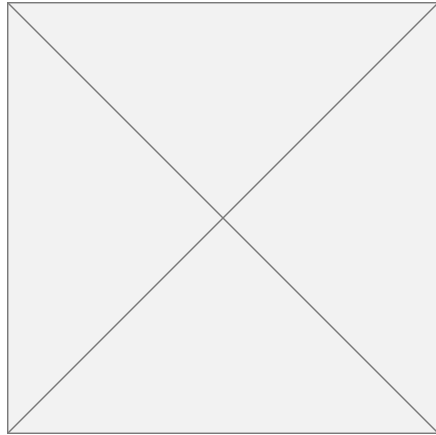


# Activity Diagram

Creating Restaurant Profile and Menu



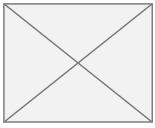
# UI Mockups



# The Third Meal

[Create Account](#)

[Login](#)



## The Third Meal

Username:

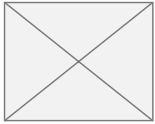
Email:

Password:

Confirm Password:

Account Type:

Save



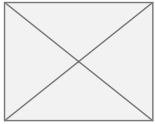
## Orders

Bob's Restaurant	4:52PM 10/23/17
\$32	Status: Open

## Restaurants

[Search](#)

Bob's Restaurant	123 W Main St, Happyville, CO, USA, 12345
Currently Open	(303) - 123 - 1234



## Bob's Restaurant

[ORDER](#)

**Address:** 123 W Main St, Happyville, CO, USA, 12345

**Phone:** (303) - 123 - 1234

**Hours:**

M-F: 8am - 12pm

Sat: 8am - 10am

Sun: Closed

### Breakfast Menu

Breakfast Burrito	\$8
-------------------	-----

The best burrito in the world.

Pancakes	\$9
----------	-----

The best pancakes in the world.

French Toast	\$7
--------------	-----

The best french toast in the world.

### Brunch Menu

Colorado Omelet	\$11
-----------------	------

The best omelet in the world.

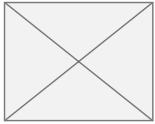
Scrambled Eggs	\$10
----------------	------

The best scrambled eggs in the world.

Blueberry Crepes	\$7
------------------	-----

They taste ok.

[ORDER](#)



## Bob's Restaurant

### Breakfast Menu

<input type="text" value="0"/>	Breakfast Burrito	\$8
	The best burrito in the world.	
<input type="text" value="0"/>	Pancakes	\$9
	The best pancakes in the world.	
<input type="text" value="0"/>	French Toast	\$7
	The best french toast in the world.	

### Brunch Menu

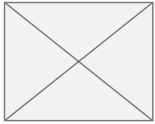
<input type="text" value="2"/>	Colorado Omelet	\$11
	The best omelet in the world.	
<input type="text" value="1"/>	Scrambled Eggs	\$10
	The best scrambled eggs in the world.	
<input type="text" value="0"/>	Blueberry Crepes	\$7
	They taste ok.	

### Order Summary

Colorado Omelet (x2)	\$22
Scrambled Eggs (x1)	\$10
<b>Total</b>	<b>\$32</b>

PLACE ORDER



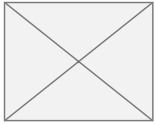


# The Third Meal

Logged in as Bob's Restaurant [Logout](#)

Name:	<input type="text" value="Bob's Restaurant"/>
Street Address:	<input type="text" value="123 W Main St"/>
City:	<input type="text" value="Happyville"/>
State/Province:	<input type="text" value="CO"/>
Country:	<input type="text" value="USA"/>
Zip Code:	<input type="text" value="12345"/>
Phone:	<input type="text" value="(303) - 123 - 1234"/>
Hours:	
Mon	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="12"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Tue	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="12"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Wed	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="12"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Thu	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="12"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Fri	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="12"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Sat	<input type="text" value="8"/> <input type="text" value="AM"/> to <input type="text" value="10"/> <input type="text" value="PM"/> <input type="checkbox"/> Closed
Sun	<input type="text" value=""/> <input type="text" value="AM"/> to <input type="text" value=""/> <input type="text" value="PM"/> <input checked="" type="checkbox"/> Closed

Save



## Bob's Restaurant

[EDIT](#)

### Orders

Bob's Restaurant

4:52PM 10/23/17

\$32

Status:

Open

[UPDATE](#)

Colorado Omelet (x2)

Scrambled Eggs (x1)

### Menus

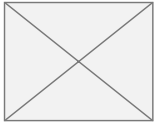
[ADD](#)

Breakfast Menu

[EDIT](#)

Brunch Menu

[EDIT](#)



## Basic Info

Name:

## Menu Items

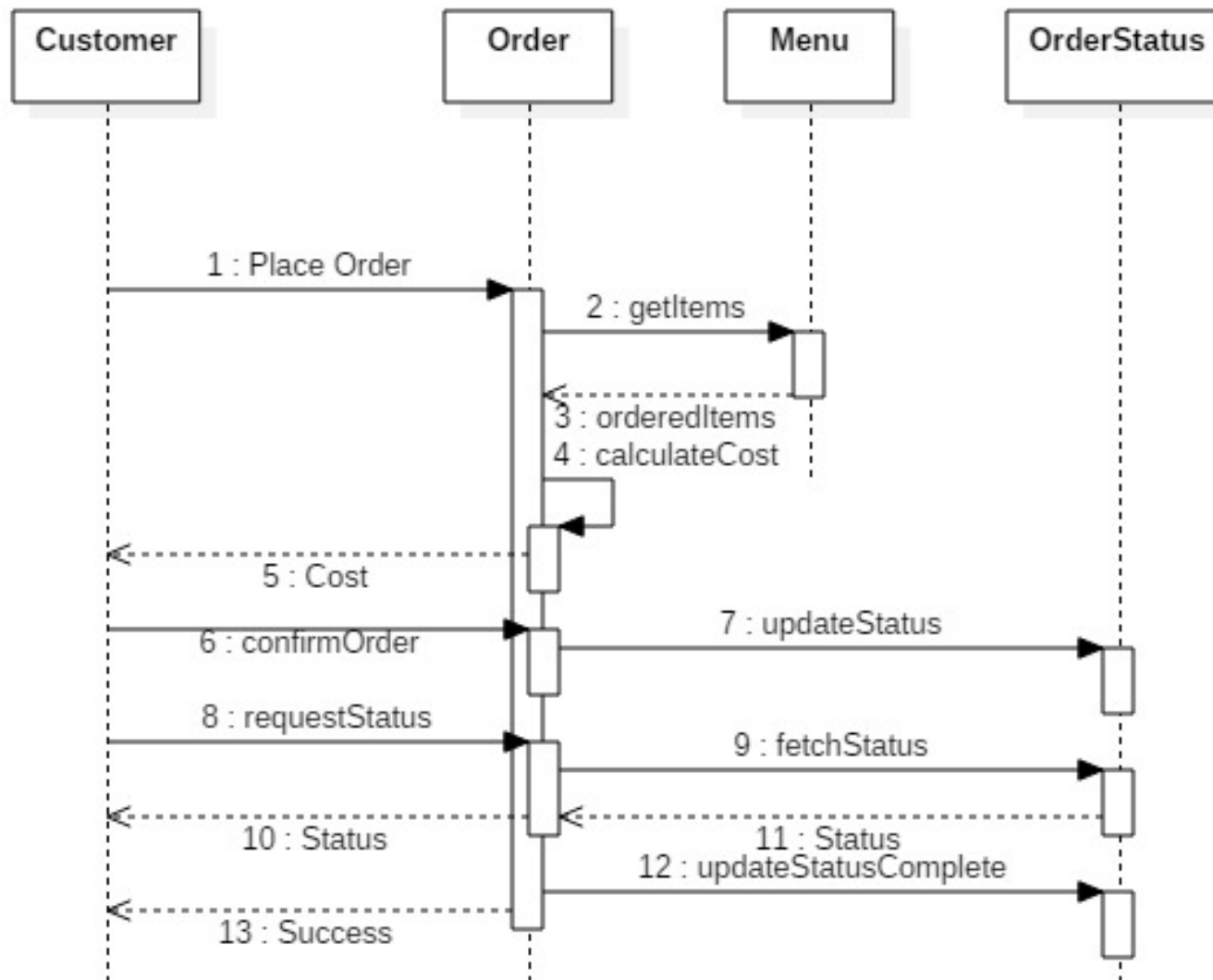
ADD

<input type="text" value="Breakfast Burrito"/>	\$ <input type="text" value="8"/>
<input type="text" value="The best burrito in the world."/>	
<input type="text" value="Pancakes"/>	\$ <input type="text" value="9"/>
<input type="text" value="The best pancakes in the world."/>	
<input type="text" value="French Toast"/>	\$ <input type="text" value="7"/>
<input type="text" value="The best french toast in the world."/>	

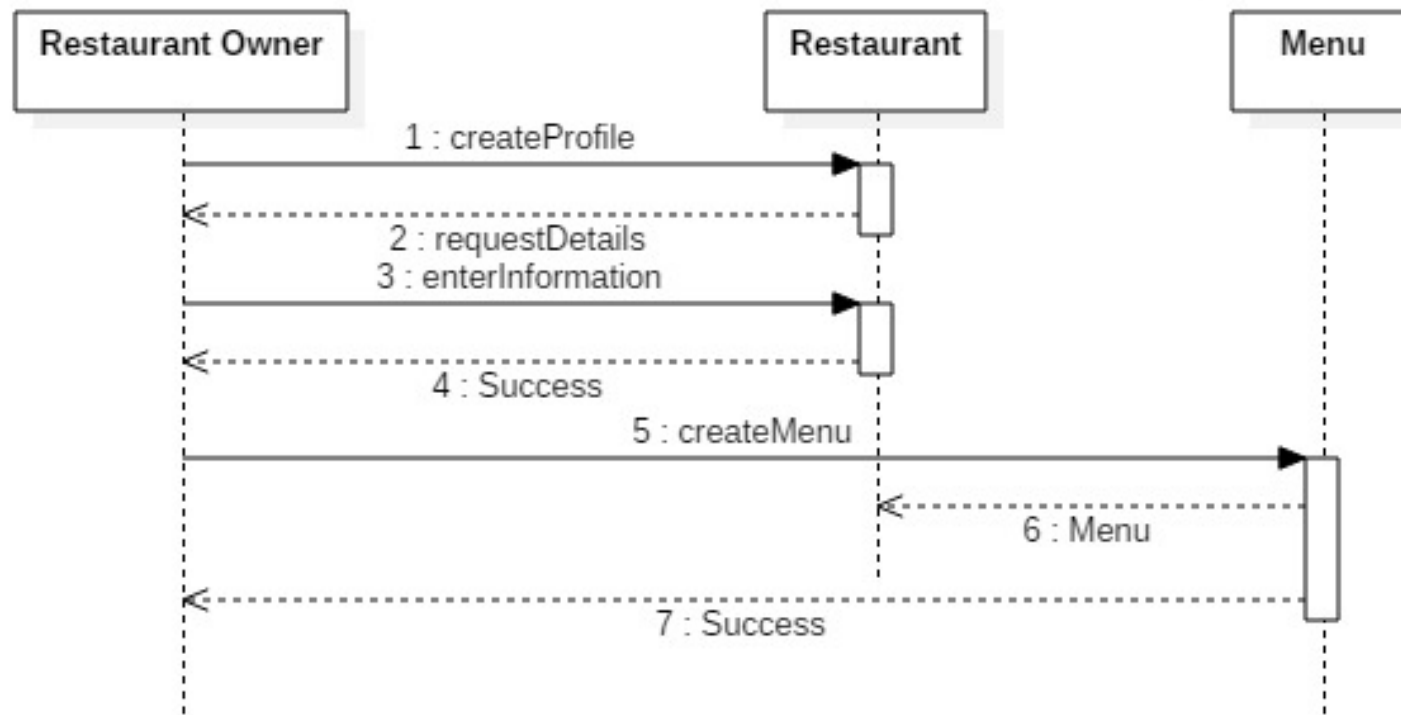
Save

# Sequence Diagrams

interaction UR001, UC001, Customer Placing an order through the system



interaction UR003, UC002, Restaurant Manager creating a menu for the restaurant.



# Class Diagram

Model::Main

