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Title: Restaurant Ordering System

Project Summary: A system that customers can use to view a restaurant menu and view menu items that are available for purchase whether they are present at the restaurant or not. Customers will create an account, create an order and select items from the menu to add to their order. Once customers are done adding or removing items to their order, they can submit their order to the restaurant. Restaurant staff can view submitted orders and then start the process of preparing the order so that the order is ready when the customer arrives. Restaurant administrators not only can view submitted orders, but can also create/delete staff accounts and edit the restaurant menu in the system.

Project Requirements:

There are no business requirements for our project.

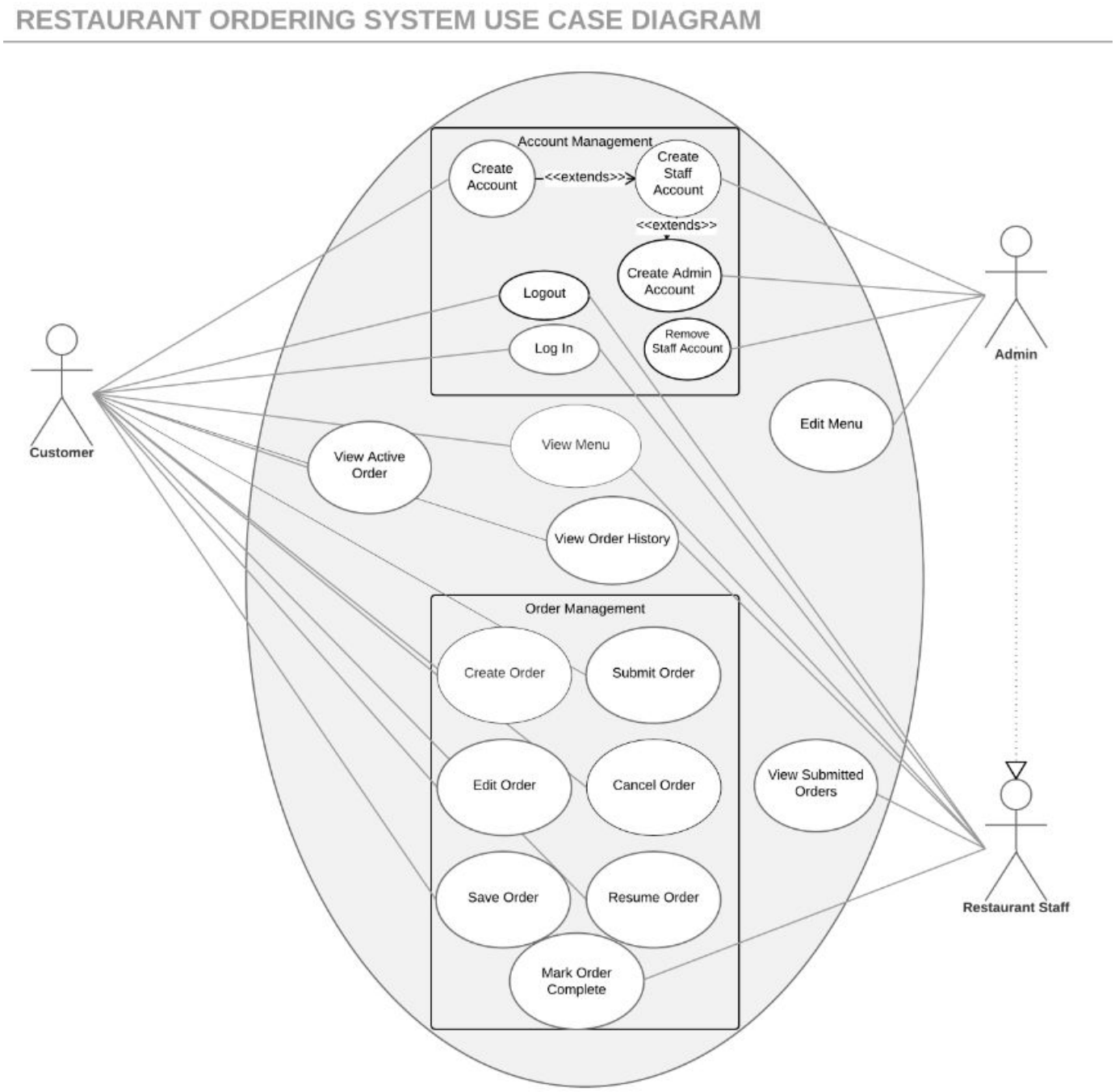
User Requirements				
ID	**Requirements**	**Topic Area**	**Actor**	**Priority**
UR-001	As a Customer, I want to be able to create an account so that I can personalize the ordering experience.	Account Management	Customer	High
UR-002	As an Admin I want to be able to add/remove Staff Accounts so that I can have control over staff that use the system.	Account Management	Admin	High
UR-003	Users should be able to login to and logout of the system	Account Management	Customer, Staff, Admin	High
UR-004	As a Customer I want to be able to view the menu of the restaurant so that I can create an order.	Menu Viewing	Customer	High
UR-005	As a Customer I want to be able to view the menu item prices on the menu so that I know the price of each item.	Menu Viewing	Customer	High

UR-006	As an Admin I want to be able to add/remove menu items	Menu Management	Admin	High
UR-007	As an Admin I want to be able to edit the menu items.	Menu Management	Admin	High
UR-008	As a Customer I want to be able to create a new order so that I can group together items that I wish to order from the Restaurant.	Order Management	Customer	High
UR-009	As a Customer I want to be able to add/remove menu items to/from my order.	Order Management	Customer	High
UR-010	As a Customer I want to be able to submit my order to the restaurant so that they can view it.	Order Management	Customer	High
UR-011	As a Customer I want to be able to view the order total so that I know how much I'm spending when I submit the order	Order Management	Customer	High
UR-012	As a Customer I want to be able to save an in-progress order so that I can resume the order later.	Order Management	Customer	Medium
UR-013	As a Customer I want to be able to resume an in-progress order so that I can come back later to complete my order.	Order Management	Customer	Medium
UR-014	As a Customer I want to be able to cancel an in-progress order so that I can start a new order.	Order Management	Customer	Medium
UR-015	As a Staff or Admin I want to be able to mark orders submitted to the restaurant as complete	Order Management	Staff, Admin	High

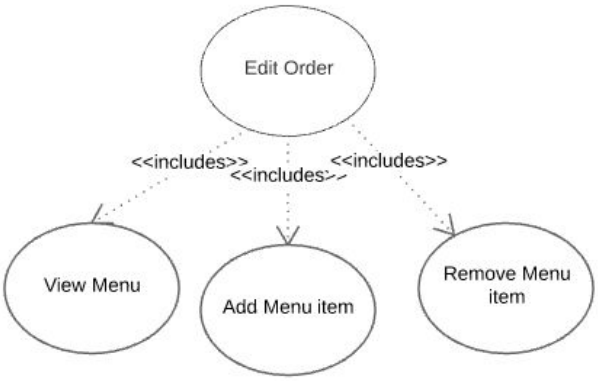
UR-016	As a Staff or Admin I want to be able to view submitted but not completed orders	Order Viewing	Staff, Admin	High
UR-017	As a Staff or Admin I want to be able to see the full order history for the restaurant.	Order Viewing	Staff, Admin	High
UR-018	As a Customer, I want to be able to view my full order history, so that I can see what I ate in the past.	Order Viewing	Customer	Medium

Non-functional requirements		
ID	**Requirements**	**Priority**
NF-001	Performance: The system should be able to handle up to 50 concurrent Customers.	High
NF-002	Performance: System must complete user facing actions in no more than 3 seconds	Medium
NF-003	Reliability:System must maintain a history of all orders for up to 365 days.	Medium
NF-004	Reliability:System must never lose an order that is in-progress.	Medium
NF-005	Usability: System must be usable without any separate documentation needed by the Customer.	Medium
NF-006	Performance: System must respond to user input in no more than 1 second	Medium
NF-007	Implementation: The system should be able to be used by browsers on personal computers and tablets.	Medium
NF-008	Reliability: The system should auto-save a Customer's order if the customer goes without activity for 5 minutes when editing an order.	Low

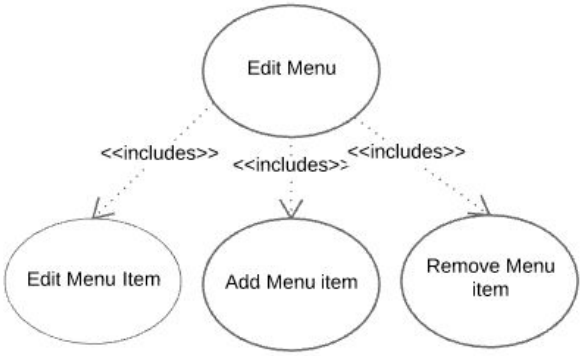
Use Cases:


RESTAURANT ORDERING SYSTEM USE CASE DIAGRAM
Account Management
Create Account
<<extends>>
Create Staff Account
<<extends>>
Create Admin Account
Logout
Log In
Remove Staff Account
Customer
Admin
Edit Menu
View Active Order
View Menu
View Order History
Order Management
Create Order
Submit Order
Edit Order
Cancel Order
View Submitted Orders
Save Order
Resume Order
Mark Order Complete
Restaurant Staff

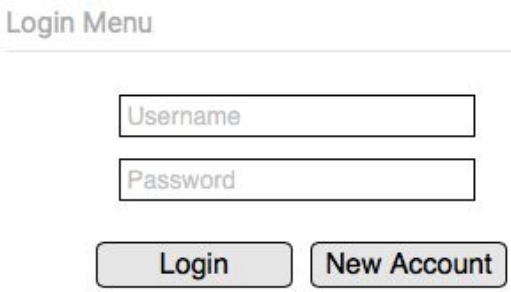
Edit Order Sub-Diagram:

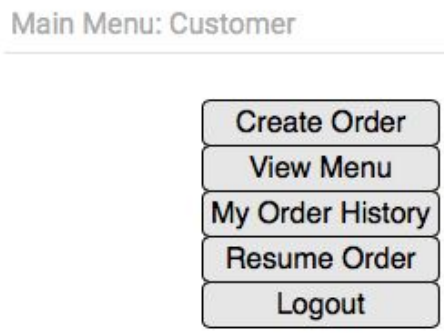


Edit Menu Sub-Diagram:



UI Mockups:


Login Menu
Username
Password
Login
New Account


Main Menu: Customer
Create Order
View Menu
My Order History
Resume Order
Logout

Create Order: Customer

▼ Item	▼ Quantity	▼ Price	
Burger	1	$10	Remove
Diet Coke	1	$2.75	Remove

Total: $12.75

View Menu
Submit Order
Cancel Order
Save
Back

View Menu: If Customer

▼ Item	▼ Price	▼ Description	▼ Image	
Clam Chowder	$1	Seafood Stew		Add to Order
Burger	$10	Ground beef and buns		Add to Order

View Order Back

Customer Order History

▼ Order Id	▼ Order Date	▼ Order Total	▼ Item(s) (Quantity)	▼ Order Status
051	03/08/2017	$20	Burger (2)	Active
050	03/08/2017	$2.75	Diet Coke(1)	Submitted
004	05/20/2016	$2	Clam Chowder (2)	Complete

Resume Submit Cancel

Back

View Menu: If Admin

▼ Item	▼ Price	▼ Description	▼ Image
Clam Chowder	$1	Seafood Stew	
Burger	$10	Ground beef and buns	

Edit Remove

Edit Remove

Add Item

Enter Item Name:

Enter Item Price:

Enter Item Description:

Back

Edit Menu Item

Clam Chowder
10
seafood stew

Submit

Back

View Orders

filter by customer name

Filter

▼ Order Id	▼ Order Total	▼ Customer Name	▼ (Quantity)	▼ Order Status
001	$60	John Doe	Burger (3)	Complete
002	$20	Fred Trouble	Burger (1)	Submitted

Mark Complete

Back

Data Storage: We will be using a MySql database in order to persist the data. We also will be using Hibernate to easily store the Java objects in the database. Our system will store the following models within the database:

- Restaurant
- User

Class Diagram: