# SOFTWARE ENGINEERING
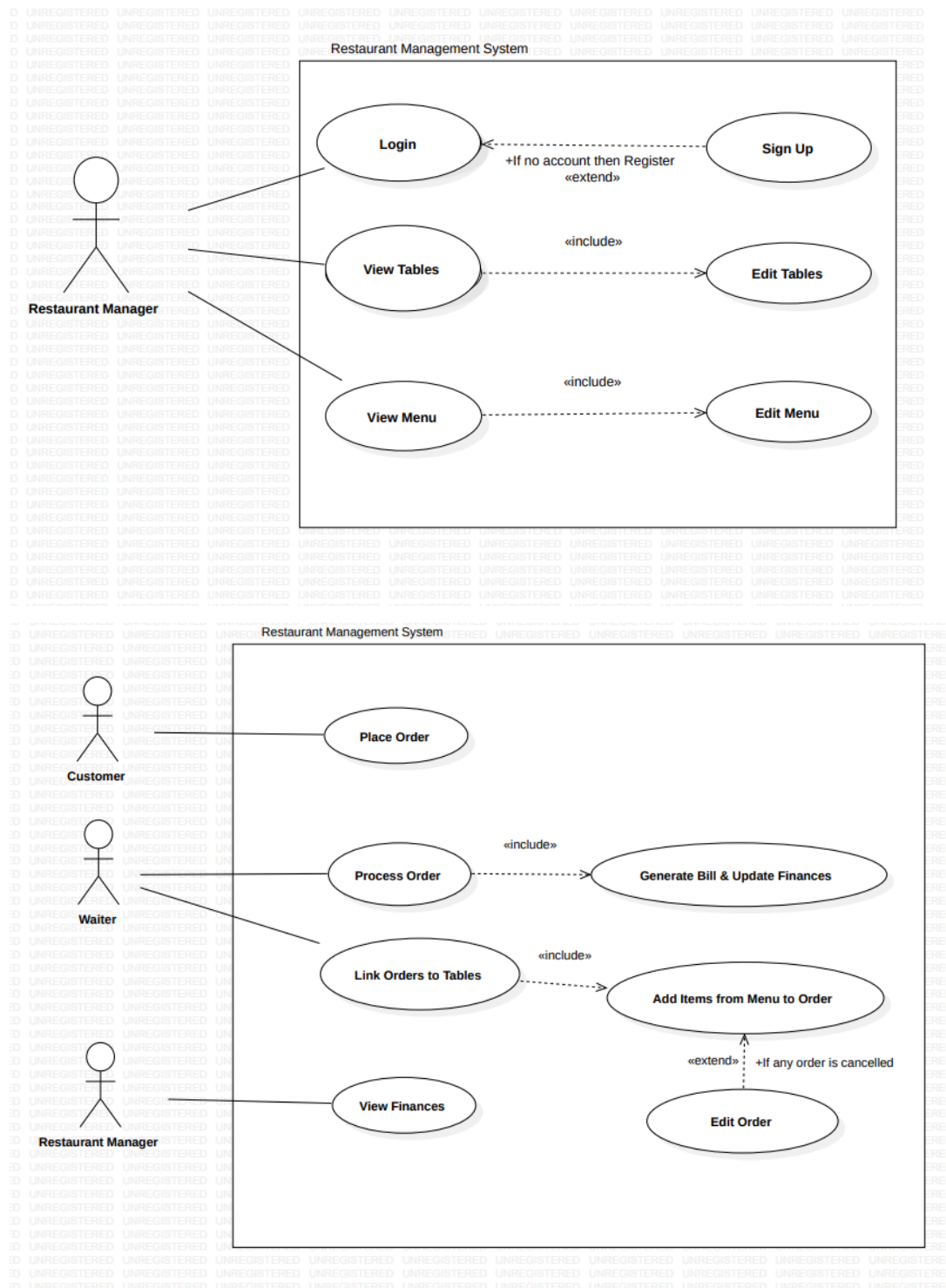## Use Case Diagram & Class Diagram

## USE CASE DIAGRAM



**Restaurant Management System**

- Restaurant Manager
- Login
- Sign Up
- +If no account then Register «extend»
- View Tables
- «include»
- Edit Tables
- View Menu
- «include»
- Edit Menu



**Restaurant Management System**

- Customer
- Place Order
- Waiter
- Process Order
- «include»
- Generate Bill & Update Finances
- Link Orders to Tables
- «include»
- Add Items from Menu to Order
- «extend» +If any order is cancelled
- Edit Order
- Restaurant Manager
- View Finances

# CLASS DIAGRAM

## Finance

-Financeid: int
-dailyEarning: double
-weeklyEarning: double
-monthlyEarning: double

+updateEarnings(amount: double, period: String): void
+generateReport(period: String): String

## User

-Userid: int
-Username: String
-Password: String

+Login(): void
+Logout(): void

## Restaurant

-Restaurantid: int
-Name: String
-Address: String
-OwnerName: String

+UpdateProfile(name: String, address: String): void

## Table

-TableNumber: int
-Status: String

+AssignTable(): void
+ReleaseTable(): void

## Menu

-Itemid: int
-Name: String
-Price: double

+AddMenuItem(name: String, price: double): void
+RemoveMenuItem(Itemid: int): void
+UpdatePrice(Itemid: int, price: double): void

## Order

-Orderid: int
-TableNumber: int
-Status: String
-TotalAmount: double

+addItem(item: MenuItem, quantity: int): void
+removeItem(item: MenuItem): void
+calculateTotal(): double
+closeOrder(): void

1   1   1   1...n   1   1...n   1...n   1