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**Design Report**  
**for**  
**Kitchen Zealot**

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**Version 2.0**

**November 23, 2019**

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<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
11/2/2019	1.0.0	Initial version of the online restaurant system	Abtahi Chowdhury Abusaleh Masud Safwan Shahid Arman Uddin Farhan Zaman
11/23/2019	2.0.0	This report is meant to provide the data structure and logic to carry out the functionalities dictated by the specification.	Abtahi Chowdhury Abusaleh Masud Safwan Shahid Arman Uddin Farhan Zaman

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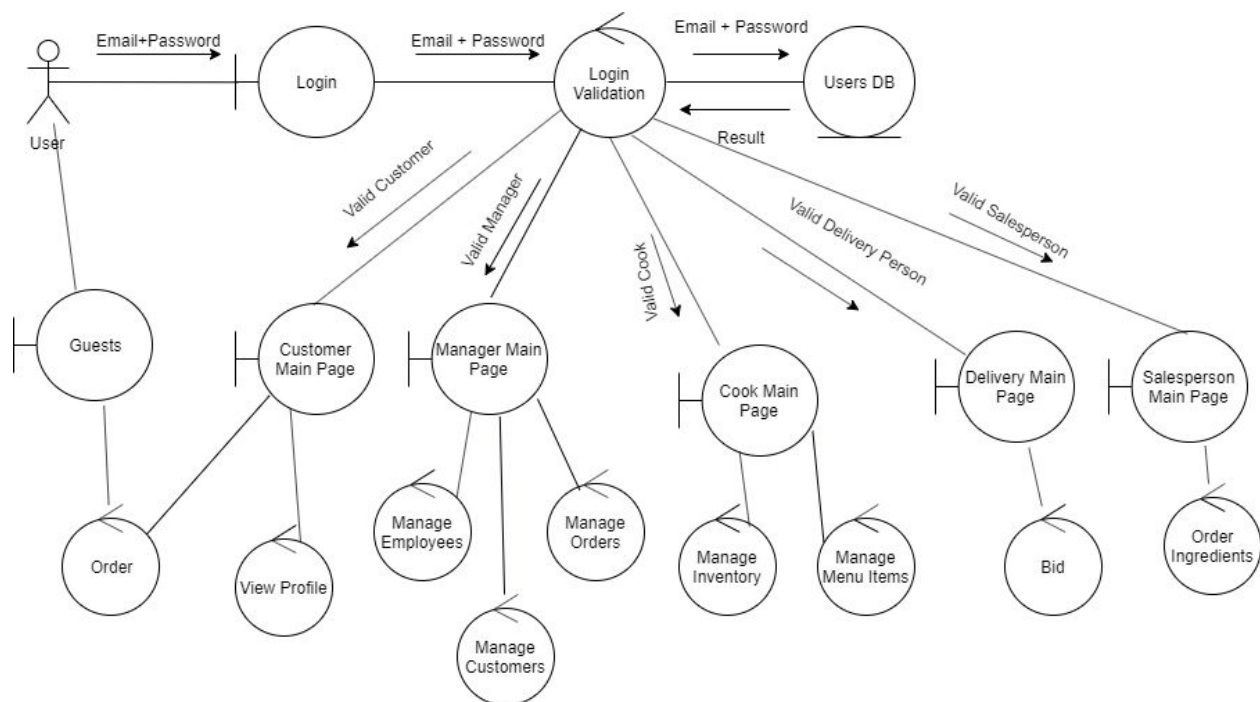
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# 1. Introduction

Below you will encounter many diagrams, charts, and pseudocode, as they will assist in breaking down the design of our product. As you continue reading the paper, any questions or confusions that arise will be answered and clarified. Not only does it allow customers (registered users) and guests (unregistered users) to order and receive food, but also gives managers, salespeople, cooks, and delivery people access to their own page to handle services in the company. Delivery people have access to see all the different orders from customers and guests, and bid on them. Salespeople are given comments from cooks, to know and order ingredients that are needed. Cooks are allowed to request more supplies from salespeople, rate salespeople, and change menu items. Managers can approve guest to customers, view order history, view all ratings, start delivery bidding process per order, pay employees, hire/fire employees, and remove warnings.

The **collaboration class diagram** below gives an overview on the entire Kitchen Zealot system.



DB: Database

## 2. Design

### 2.1 Use Case Scenarios

<b>View Menu</b>
<p><b>Normal Scenario</b></p> <ol style="list-style-type: none"><li>1. Guests, or customers click “Menu” on the homepage to see menu. Customers or Guests who are logged in to the site, can click “Order” to view the menu to order.</li></ol>

<b>Login</b>
<p><b>Normal Scenario</b></p> <ol style="list-style-type: none"><li>1. User clicks “Login” button in the navigation bar</li><li>2. User is asked to enter their email and password</li><li>3. User inputs appropriate information</li><li>4. Information is checked against database for validation</li><li>5. User is logged in</li></ol>
<p><b>Exceptional Scenario</b></p> <ol style="list-style-type: none"><li>1. User clicks login and enters credentials</li><li>2. Credentials are not valid</li><li>3. Error message is shown</li><li>4. User is asked to try again</li></ol>

<b>Continue as Guest</b>
<p><b>Normal Scenario</b></p> <ol style="list-style-type: none"><li>1. User clicks on “Login” and then “Continue as Guest”</li><li>2. User inputs their phone number and address when ordering</li></ol>
<p><b>Exceptional Scenario</b></p> <ol style="list-style-type: none"><li>1. User clicks on “Login” and then “Continue as Guest”</li><li>2. User inputs invalid phone number and/or address</li><li>3. Input boxes will highlight red to indicate an error</li></ol>

## **Register**

### **Normal Scenario**

1. Guest clicks login
2. Guest clicks "Sign Up"
3. Guest is asked to enter "Name", "Email", "Password", "Phone Number"
4. Guest clicks "Register"
5. A request is sent to the manager to approve
6. Manager approves or disapproves new
7. If approved, then guest info is sent to the database to be added

### **Exceptional Scenario**

1. Guest clicks login
2. Guest clicks "Sign Up"
3. Guest is asked to enter "Name", "Email", "Password", "Phone Number"
4. Guest enters an email already in use
5. Guest clicks "Register"
6. An error message pops up stating the email is already used

## **Add/Remove Products to Cart**

### **Normal Scenario**

1. Customer clicks on order
2. Customer adds an item to the cart with the quantity they want

## **Order Food**

### **Normal Scenario**

#### **Scenario 1: Customer**

1. Customer clicks "Order"
2. Customer views menu and clicks "Add to Cart"
3. Customer adjusts quantity
4. Customer click "Check Out"

#### **Scenario 2: Guest**

1. Guest clicks "Menu"
2. Guest adds an item to the cart with the quantity they want
3. Guest clicks "Check Out" to place order
4. Guest is prompted to enter their details: Name, Email, Phone Number, Payment Details



### **View All Placed Orders**

#### **Normal Scenario**

1. Customer clicks on “My Orders” to view all placed orders

### **Rate Food/Delivery**

#### **Normal Scenario**

1. Customers can rate the food(cooks) and the delivery people individually
2. Customer Views order
3. Rate Food
4. Rate Delivery

### **Bid on Deliveries**

#### **Normal Scenario**

1. Delivery person can access the pending bid page via a button on the post-login page
2. Delivery person chooses from a list of pending bids
3. Delivery person places bids on that selected order
4. After 15 minutes time runs out, bid is over

#### **Exceptional Scenario**

1. Two users input the same bid at the same time

### **Give Customers Rating**

#### **Normal Scenario**

1. Delivery person can access the past delivered ordered in the “Delivered Orders” tab
2. Delivery person can view orders by clicking “View” next to the respective order
3. Delivery person can give customers ratings from 1 to 5 and an optional comment

#### **Exceptional Scenario**

1. Can't give a rating if they view the rating they received from said customer

## **View Delivered Orders**

### **Normal Scenario**

1. Delivery person can access the past delivered ordered in the “Delivered Orders” tab

## **Modify Menu Items**

### **Normal Scenario**

1. Cooks can access the “Modify Menu Page” by clicking a button in the navbar
2. Cook choose a menu item they wish to change or add a new menu item

### **Exceptional Scenario**

1. Two cooks may try to delete the same item at the same time

## **Request Supplies**

### **Normal Scenario**

1. Cooks can click a “Request Supplies” button on the navigation bar
2. On the Request Supplies Page, the cook can order the desired supplies by clicking “Order”

## **Rate Supplies**

### **Normal Scenario**

1. Cooks can click “Rate Past Orders’
2. Cooks can click “View” on a past order
3. Cooks can rate from 1 to 5, and write an optional comment

## **Purchase Supplies**

### **Normal Scenario**

1. Salesperson click on “Purchase Supplies”
2. Salesperson can open a list of items and select which items and in what quantity to purchase

## **Start Bids**

### **Normal Scenario**

1. Managers can click “Manage Orders” to view all orders
2. Managers can then click an order to view order details and start bids if appropriate

### **Exceptional Scenario**

1. No current orders

## **Manage Employees**

### **Normal Scenario**

1. Managers can click the “Employees” tab
2. Managers can click “View” next to any Employee to view employee details
3. Managers can hire new employees by manually adding the required information

### **Exceptional Scenario**

1. May go below minimum number of employees

## **Approve Registration**

### **Normal Scenario**

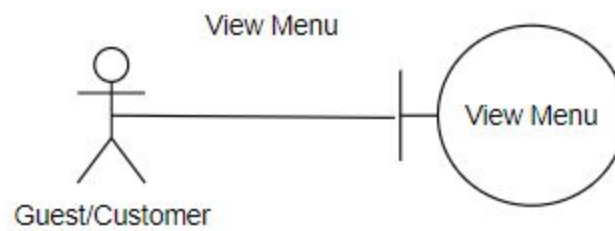
1. Manager clicks “Pending Registrations”
2. Manager can click “View” next to applicants name
3. Manager clicks “Yes” / “No” next to each new guest

### **Exceptional Scenario**

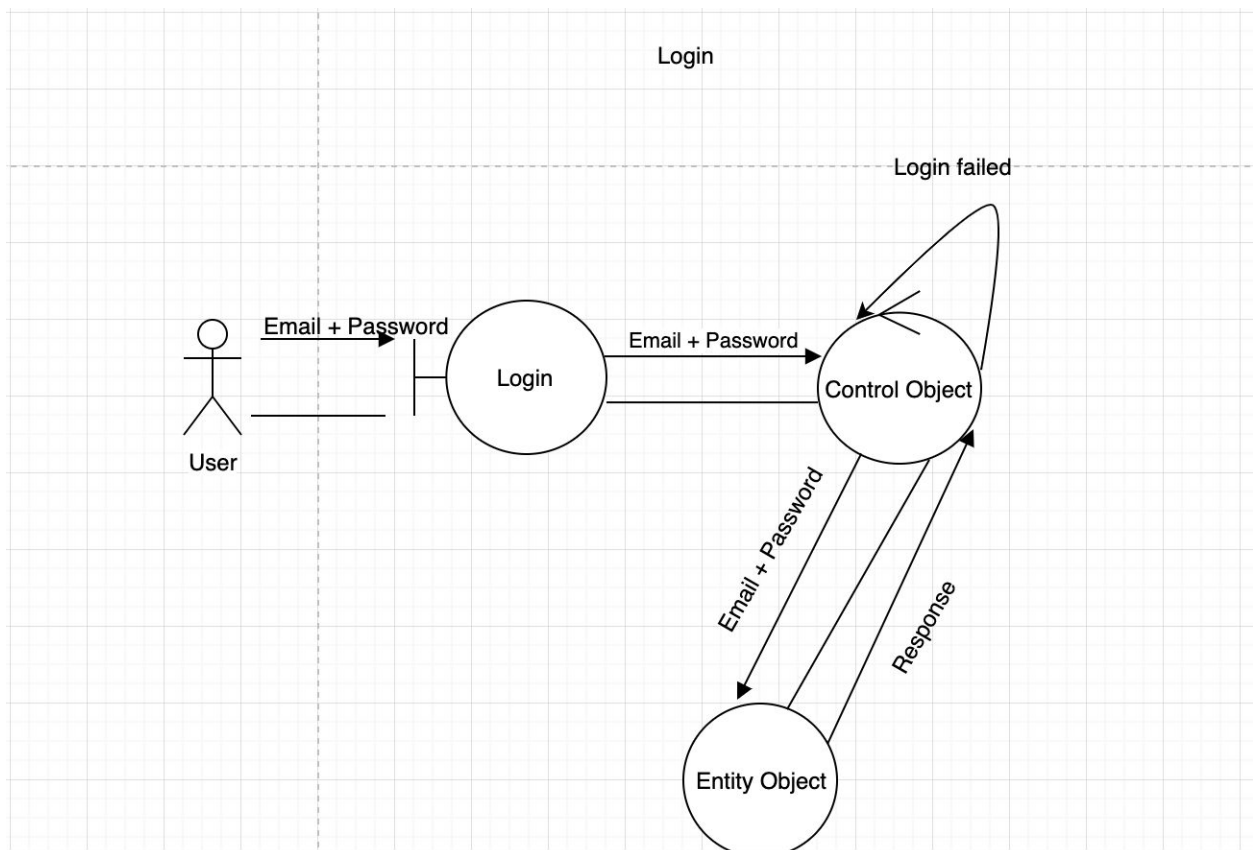
1. Guest may not have order history

## 2.2 Collaboration Diagrams

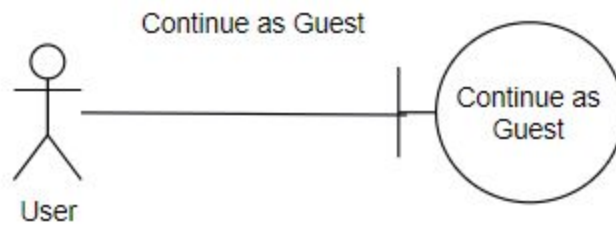
### View Menu



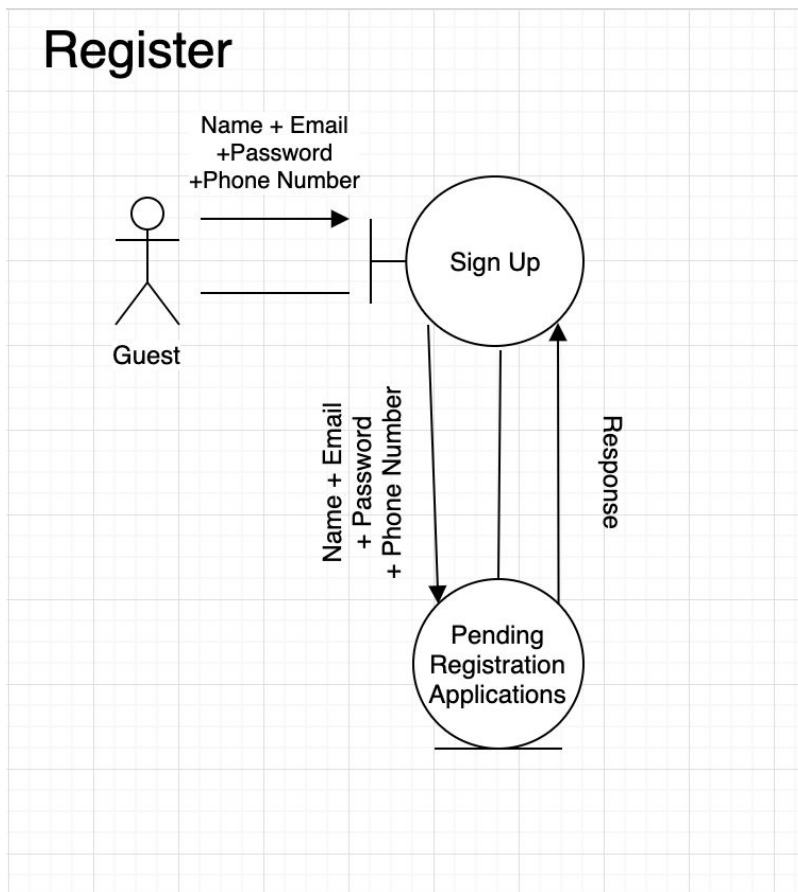
### Login



## Continue as Guest

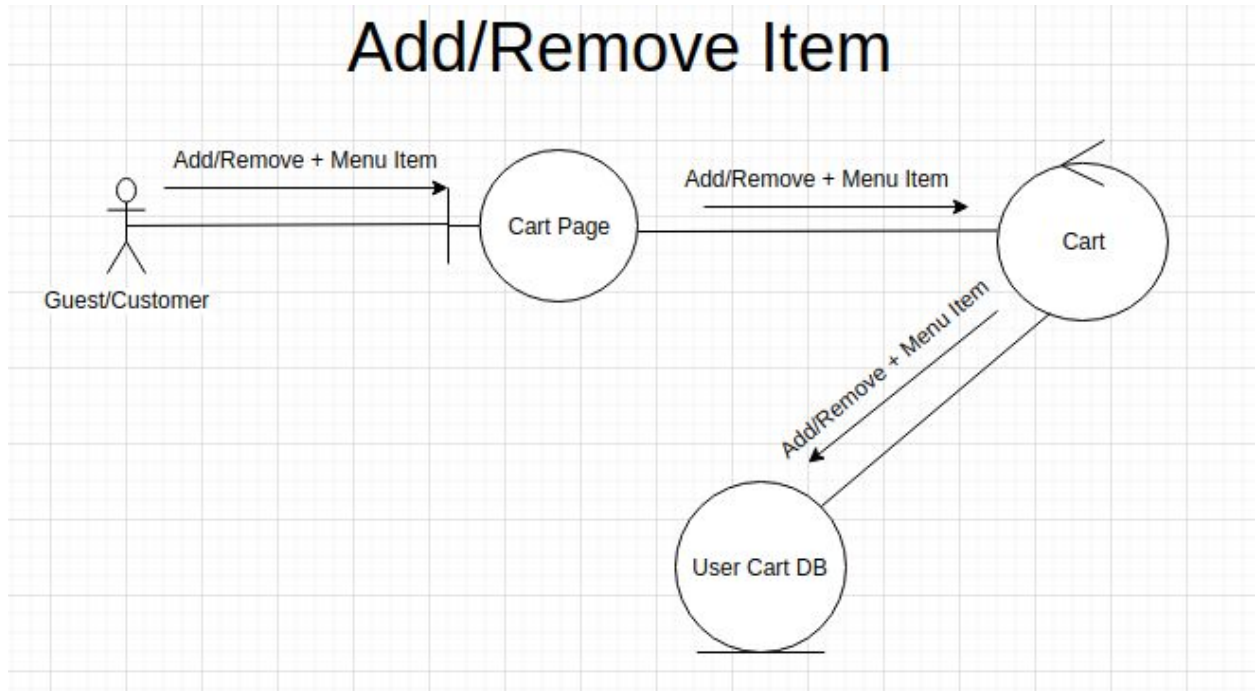


## Register

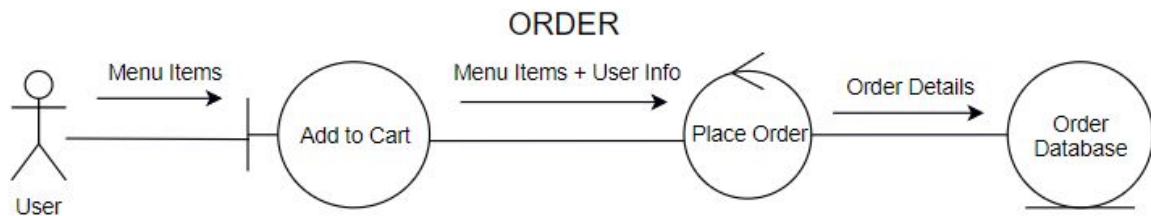


## Add/Remove Products to Cart

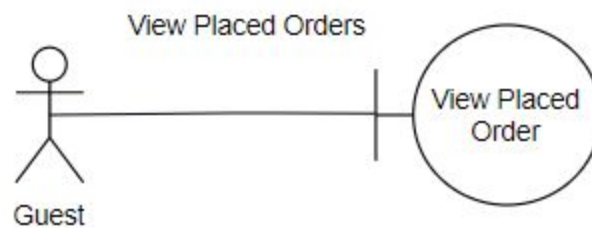
### Add/Remove Item



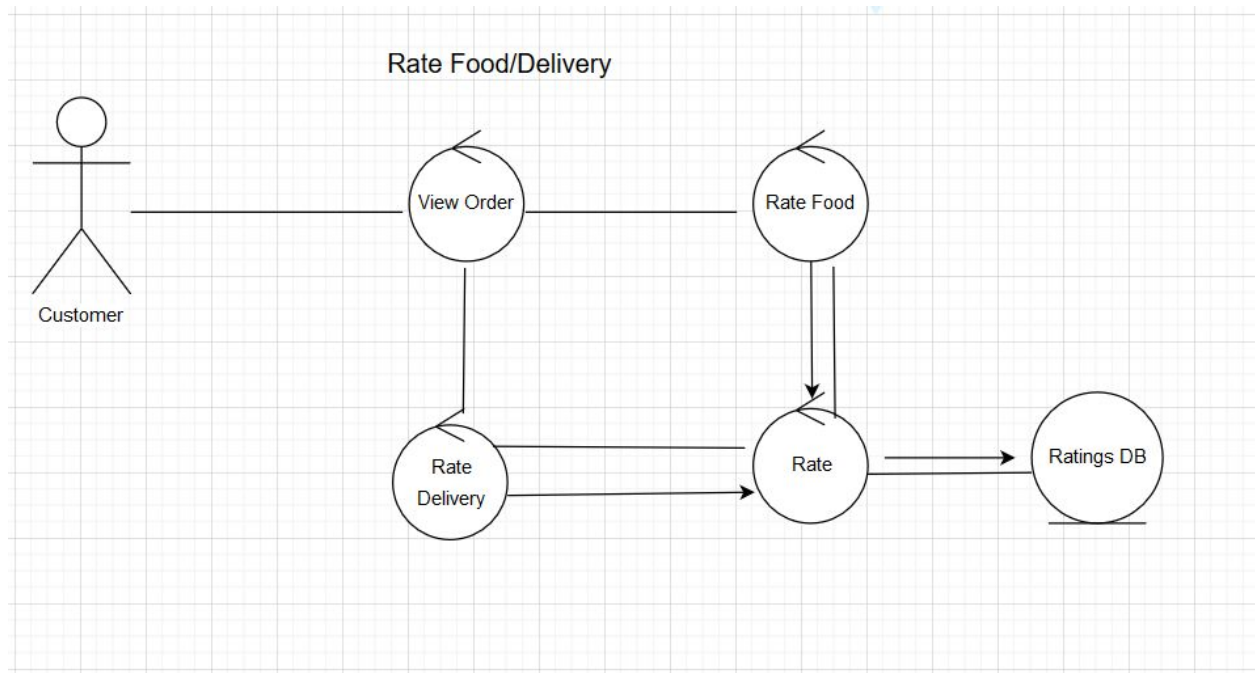
## Order Food



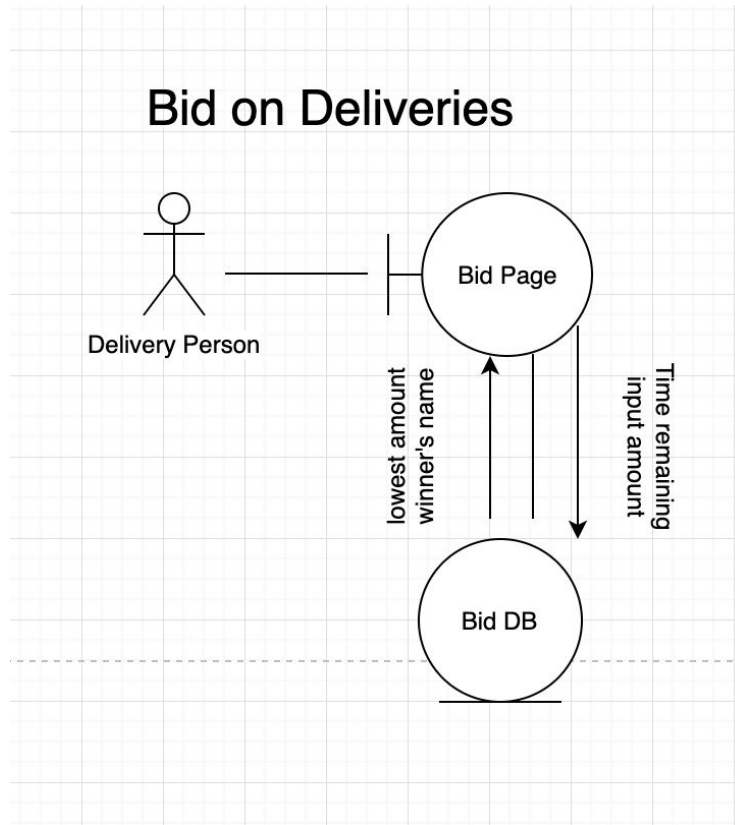
## View All Placed Orders



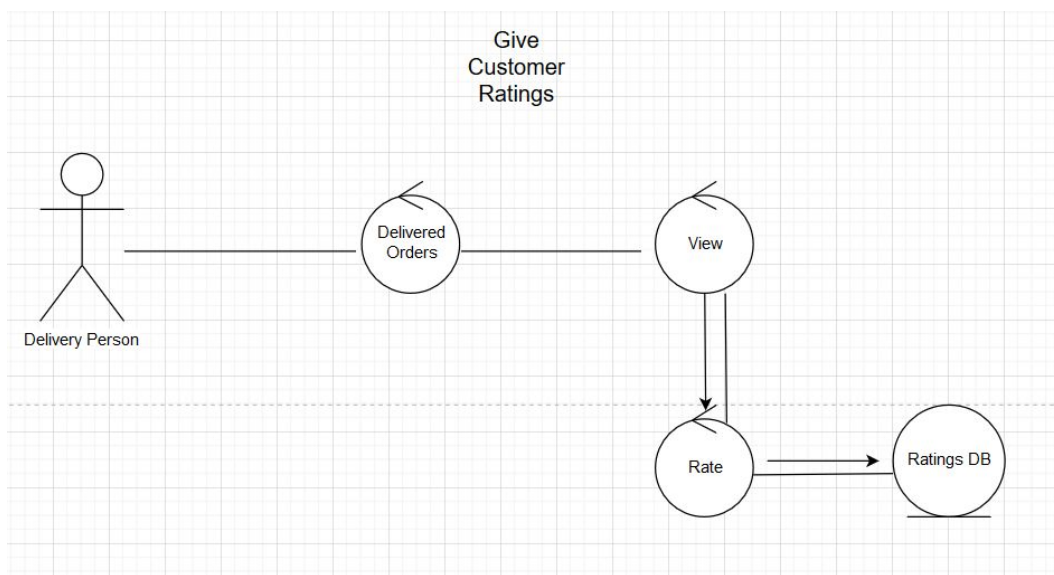
## Rate Food/Delivery



## Bid on Deliveries



## Give Customer Rating





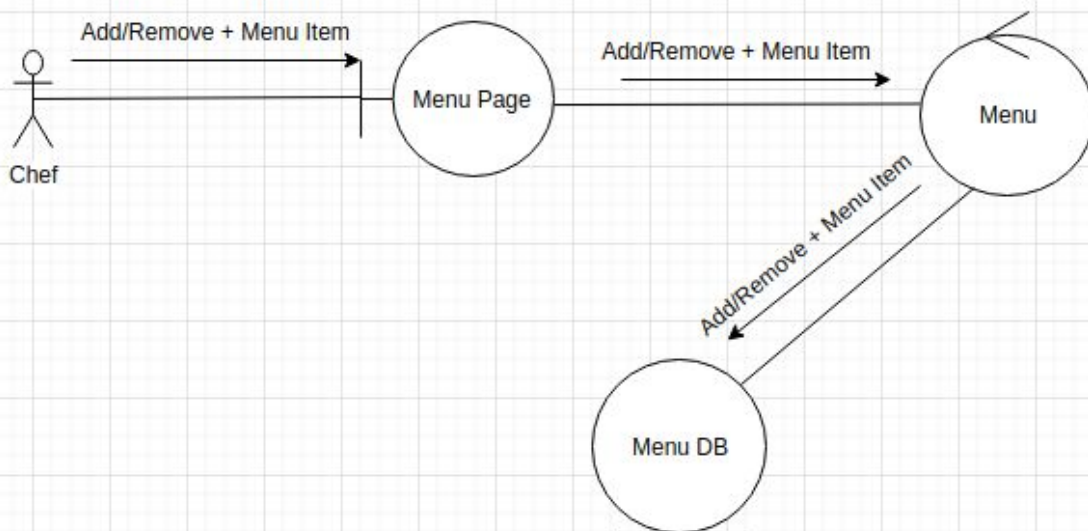
## View Delivered Orders

### View Delivered Orders

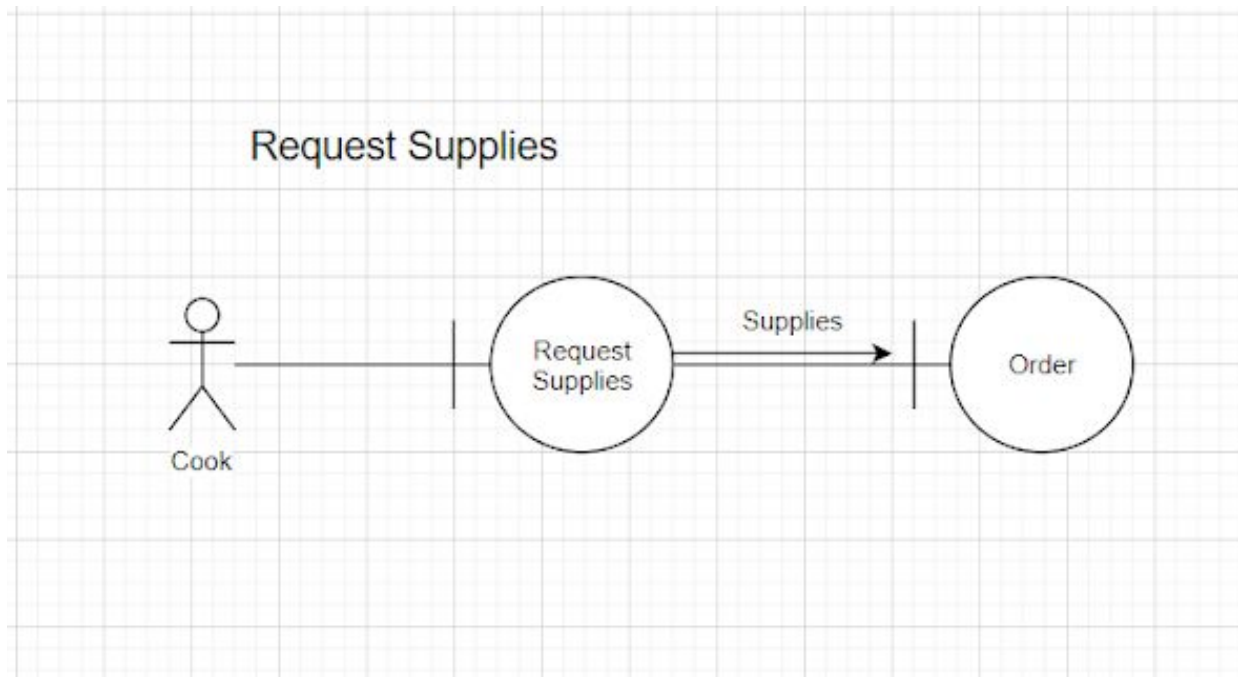


## Modify Menu Items

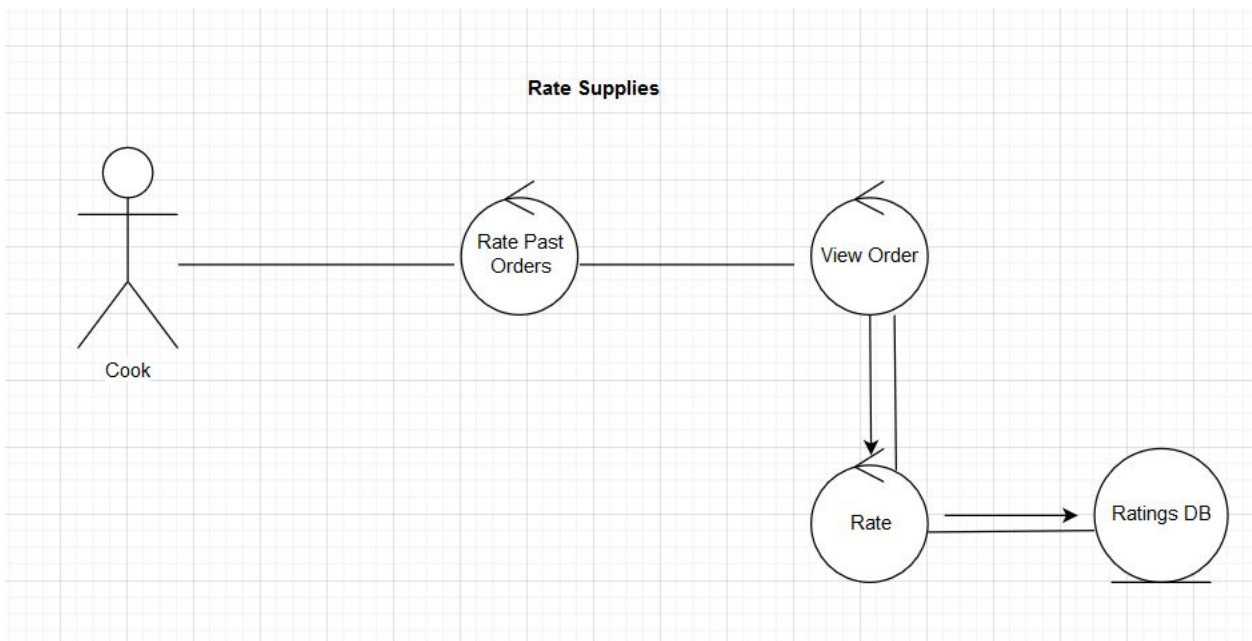
### Modify Menu Items



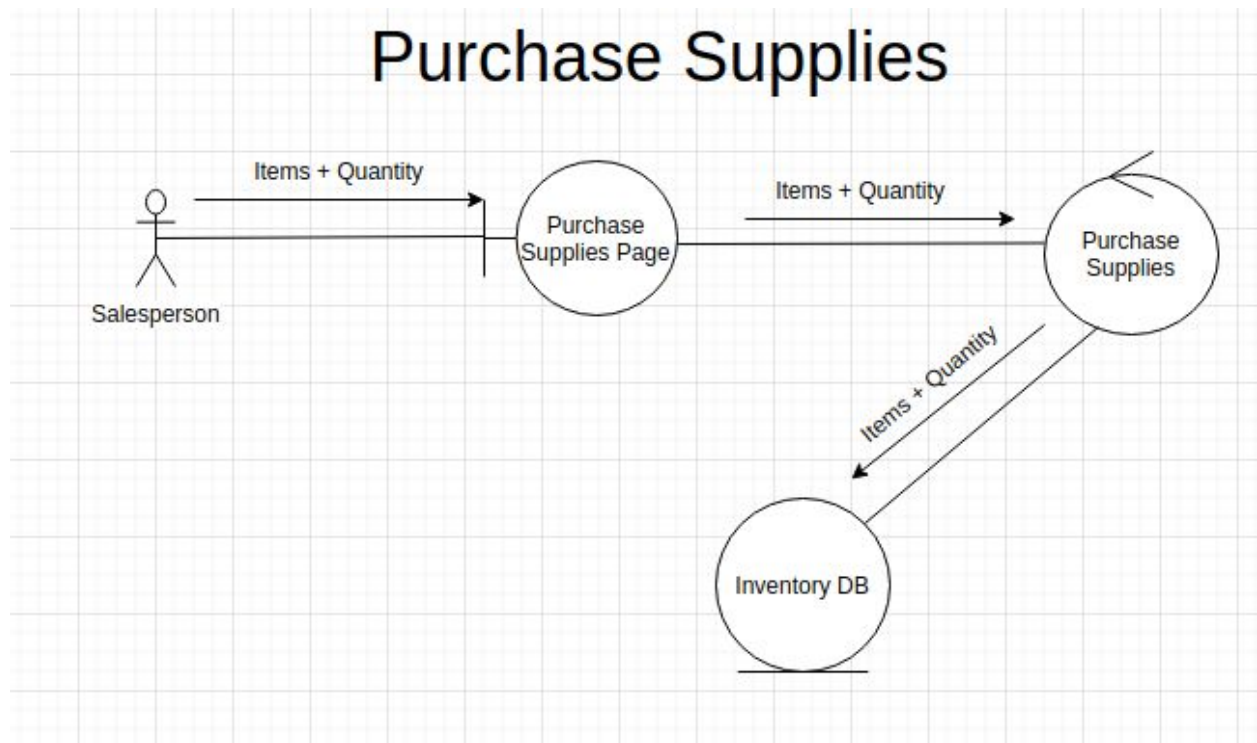
## Request Supplies



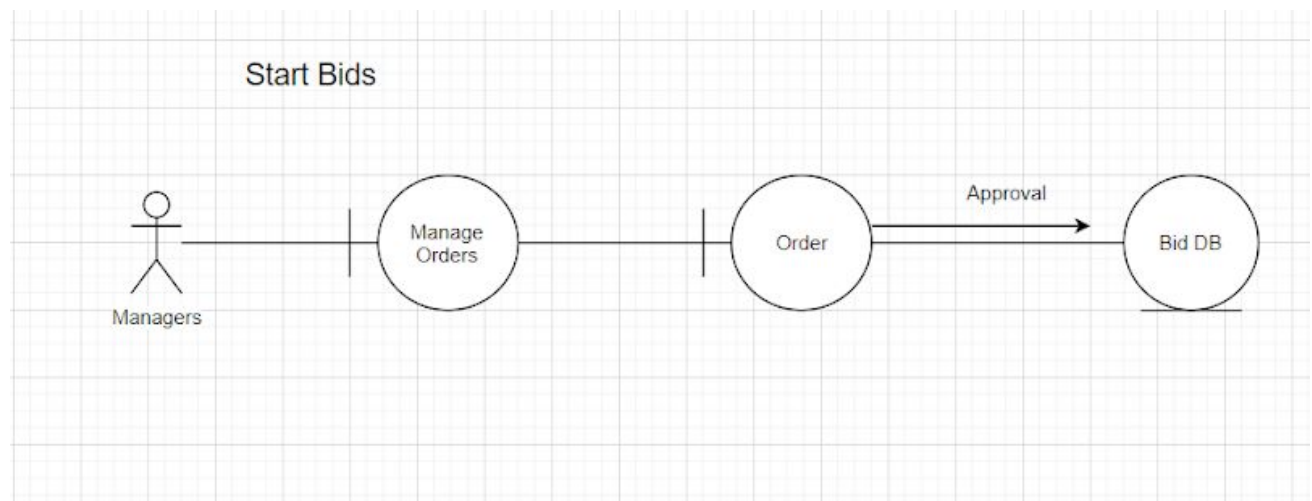
## Rate Supplies



## Purchase Supplies

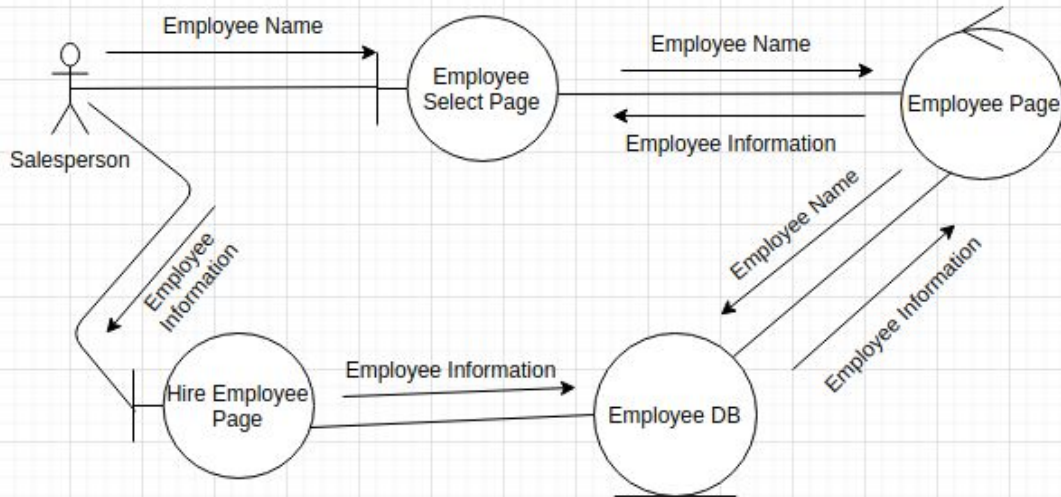


## Start Bids

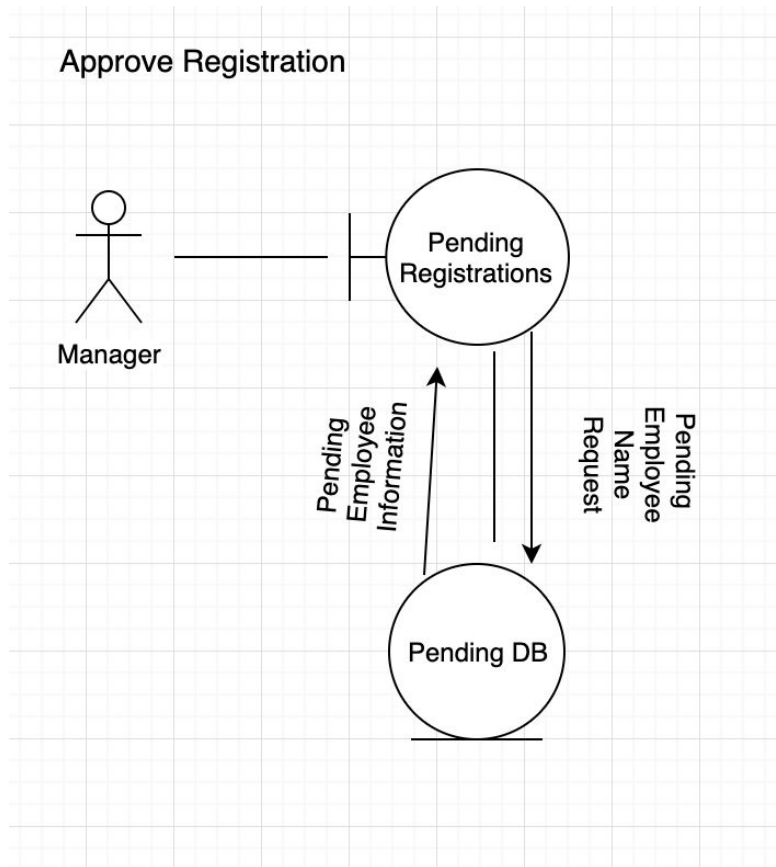


## Manage Employees

# Manage Employees

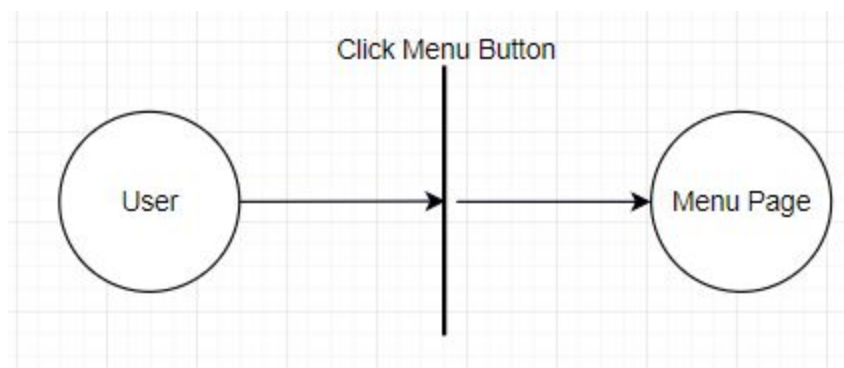


## Approve Registration

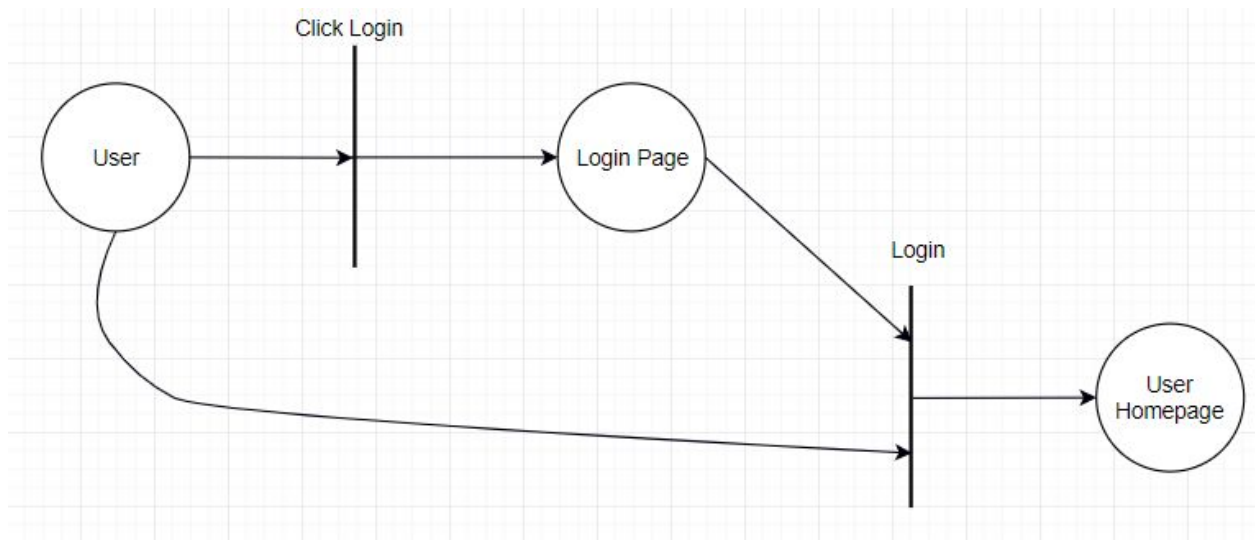


## 2.2 State Diagrams/ Petri-net

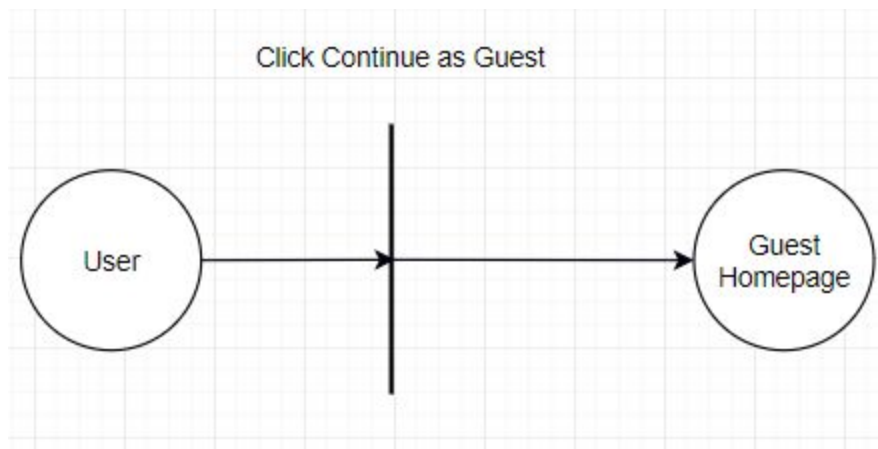
### View Menu



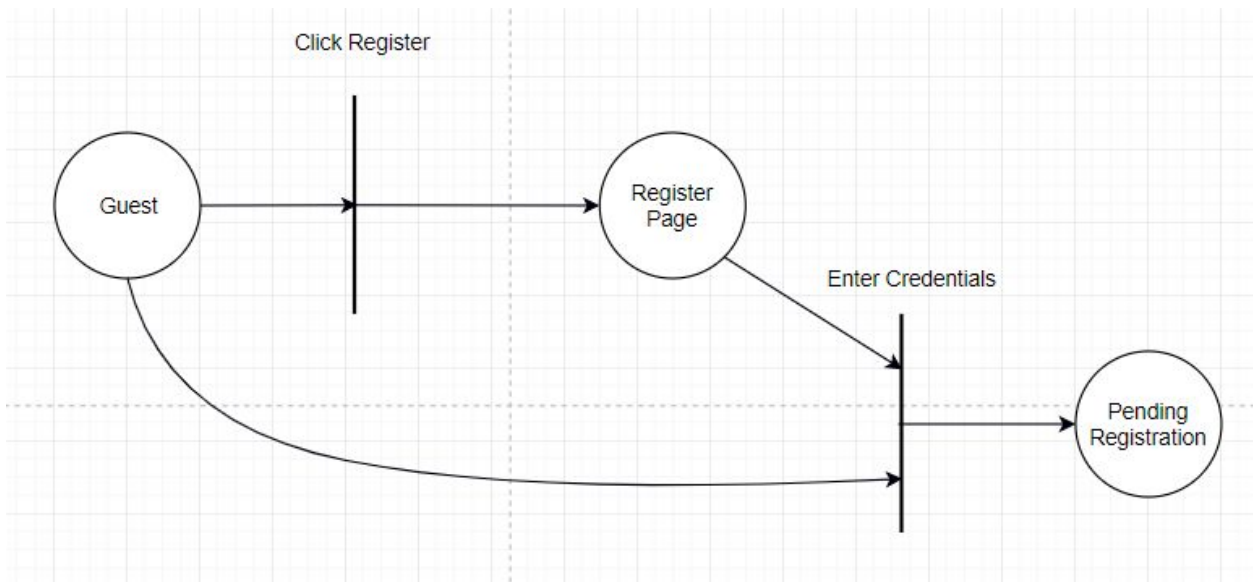
## Login



## Continue as Guest

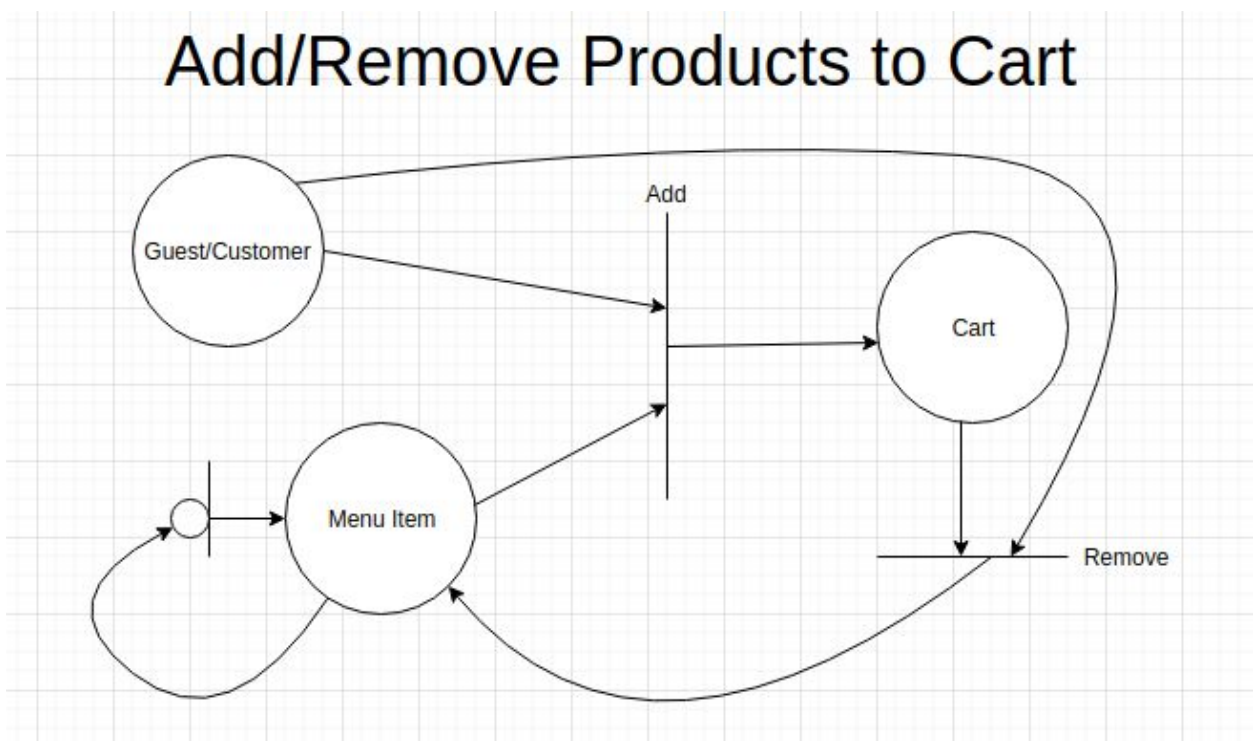


## Register

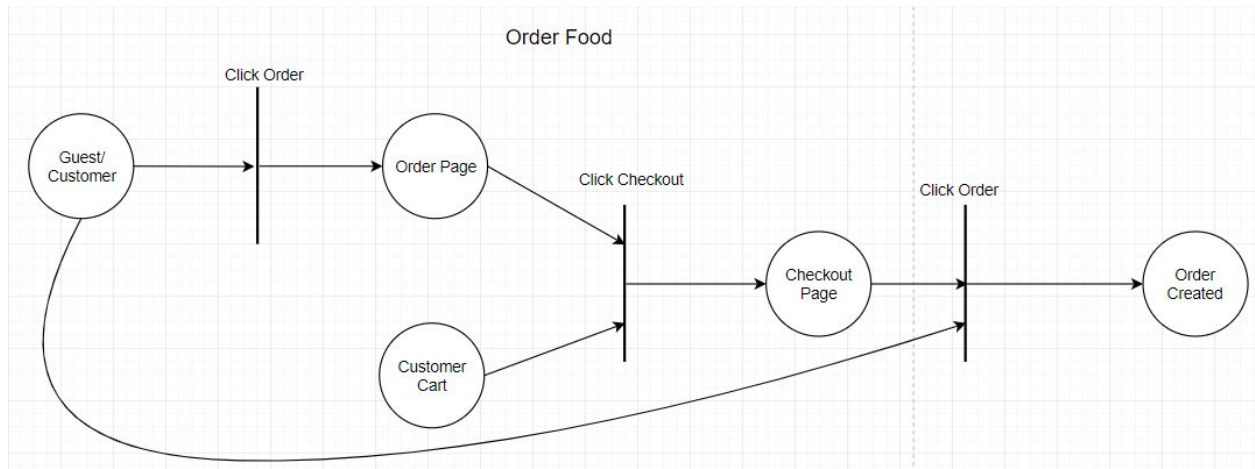


## Add/Remove Products to Cart

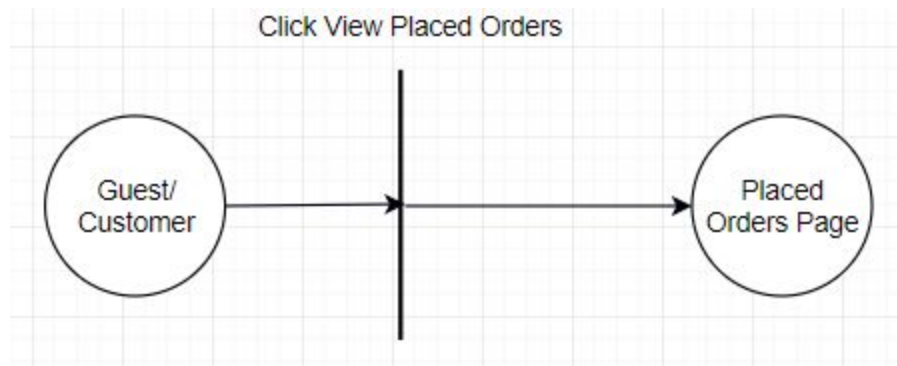
# Add/Remove Products to Cart



## Order Food

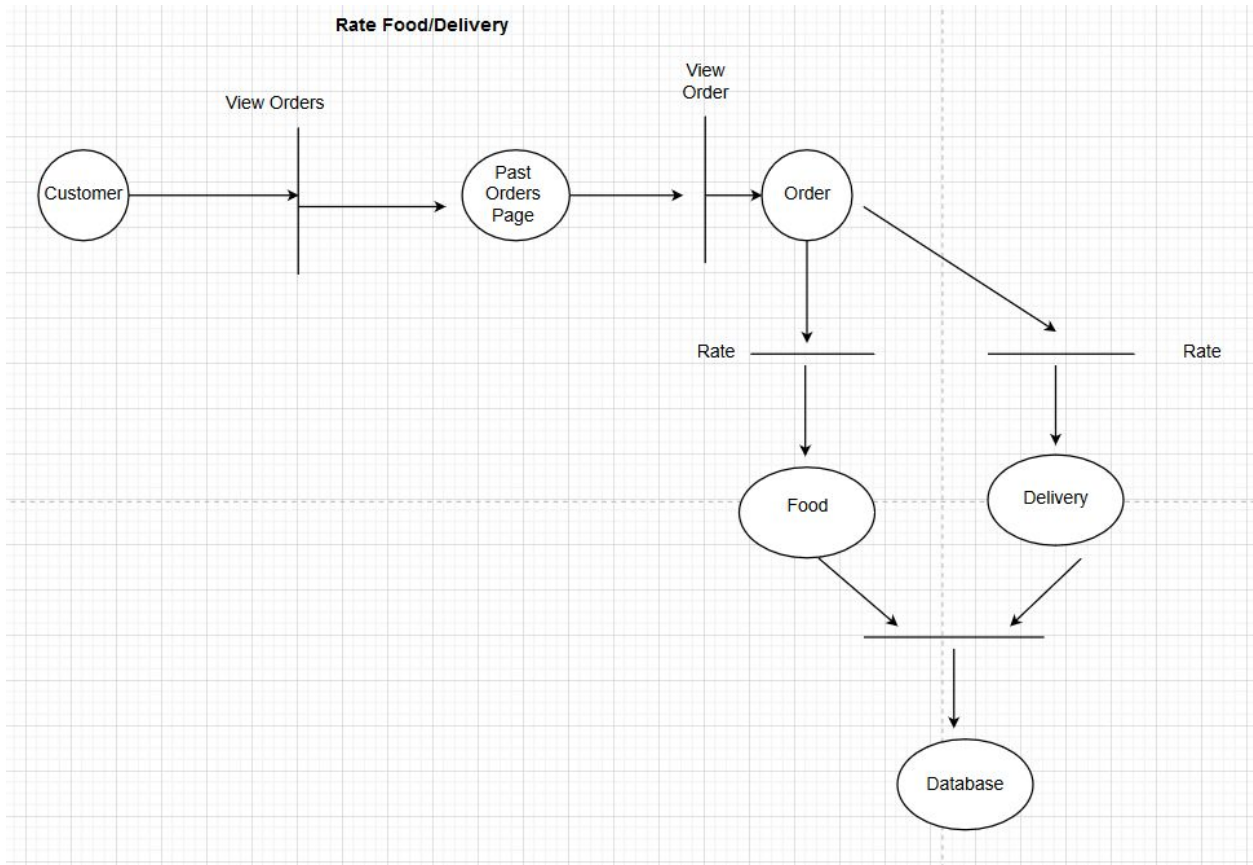


## View All Placed Orders

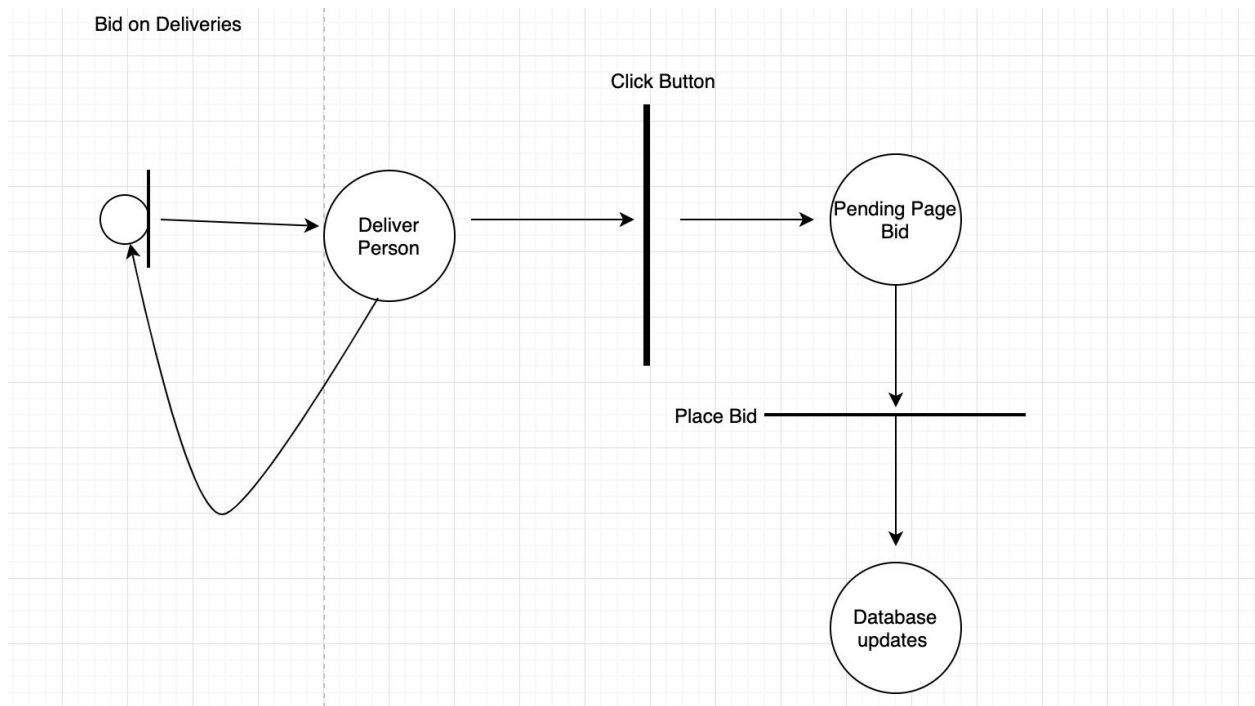




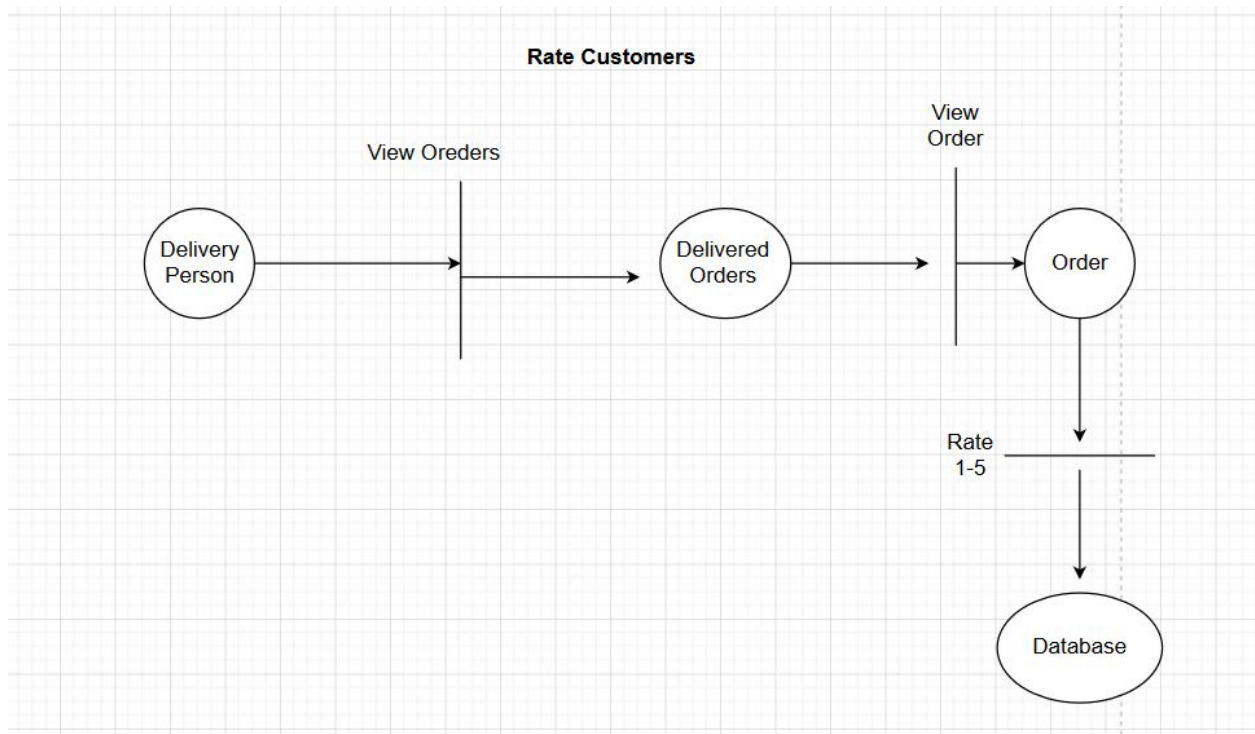
## Rate Food/Delivery



## Bid on Deliveries

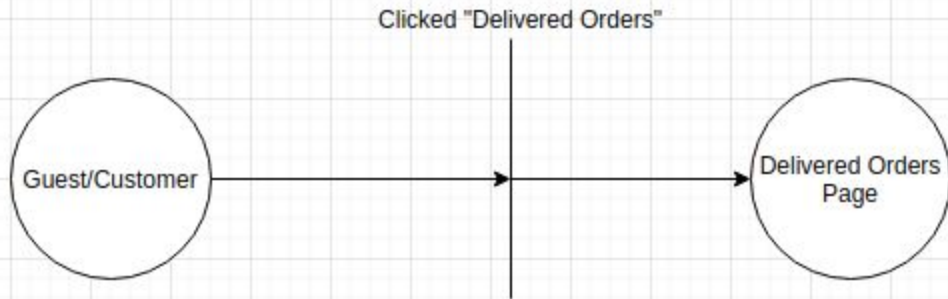


## Give Customer Rating

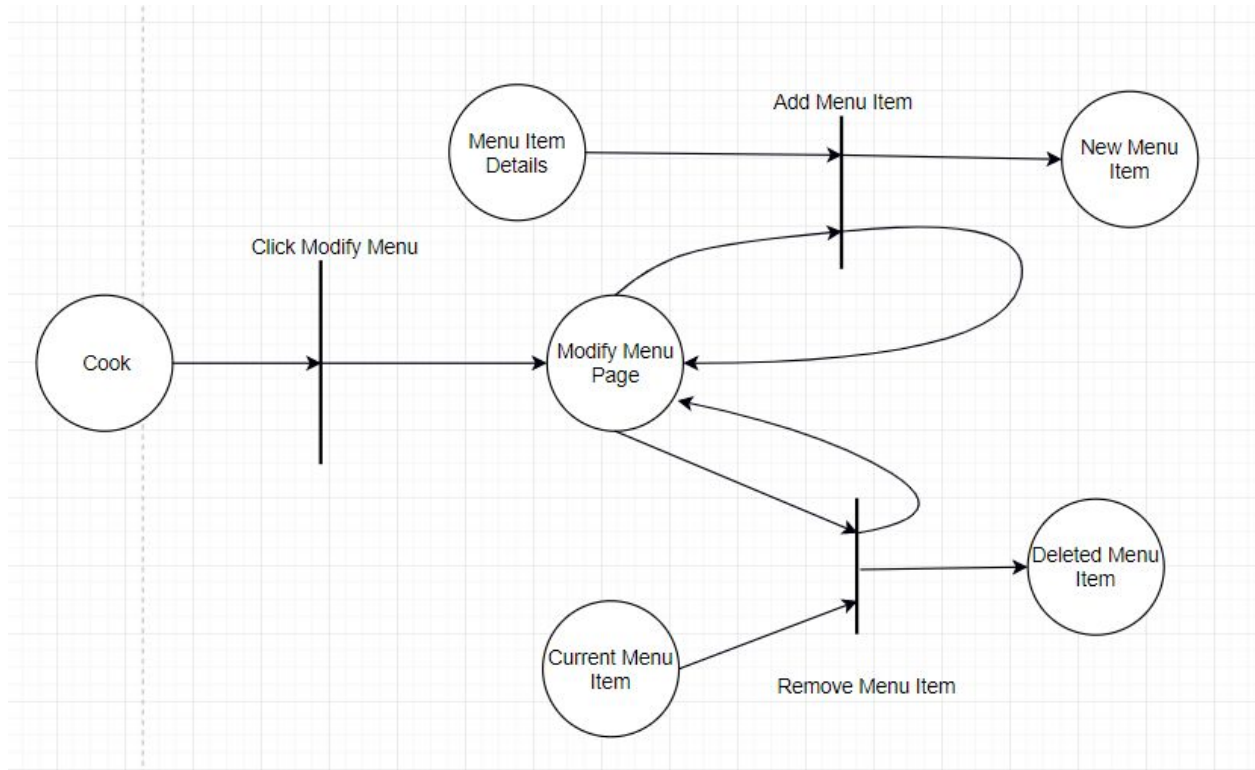


## View Delivered Orders

# View Delivered Orders

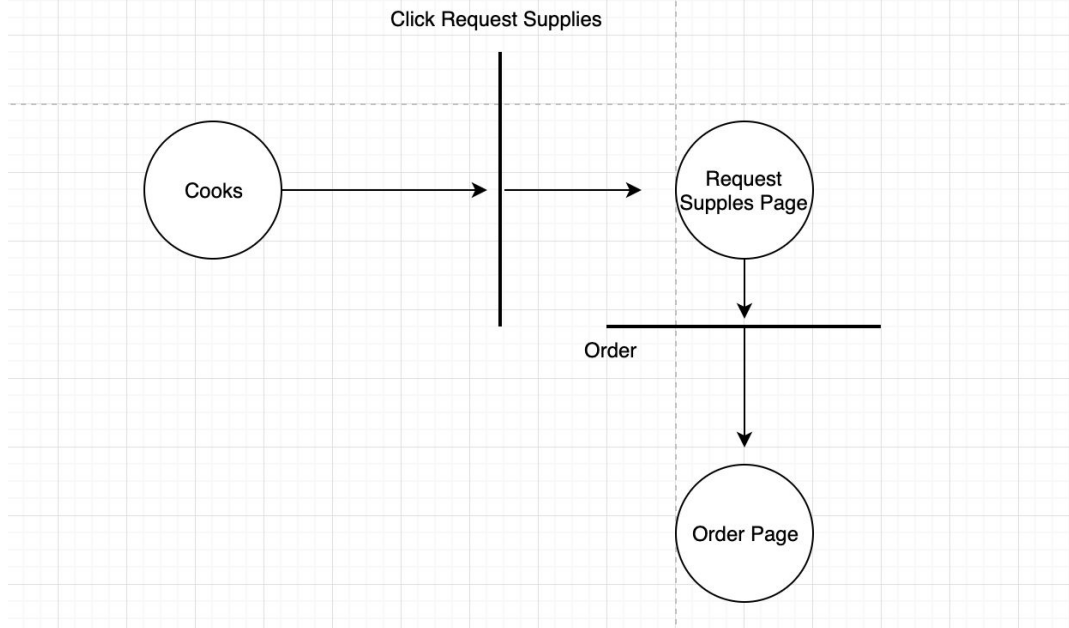


## Modify Menu Items

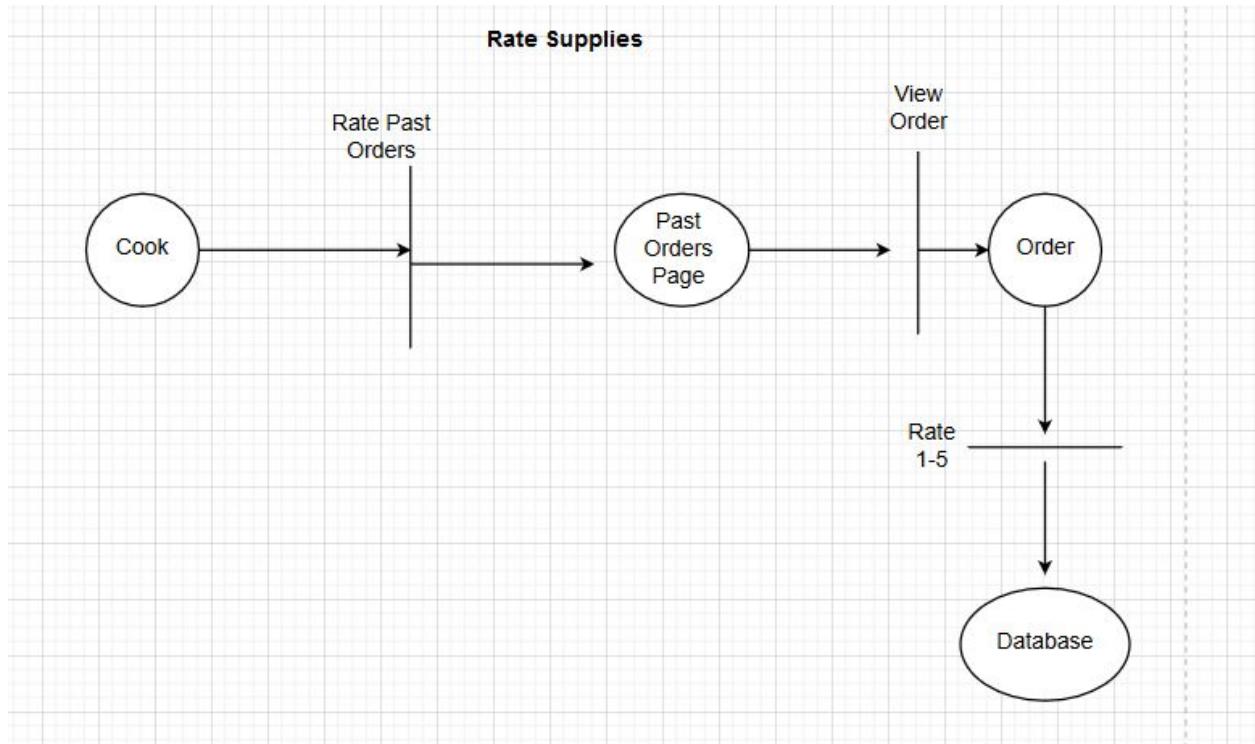


## Request Supplies

Request Supplies

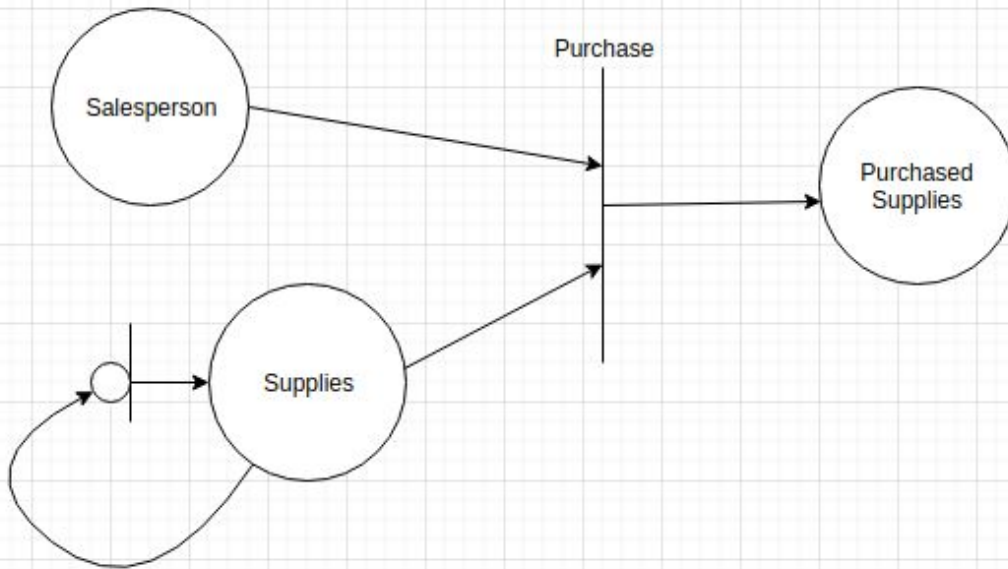


## Rate Supplies



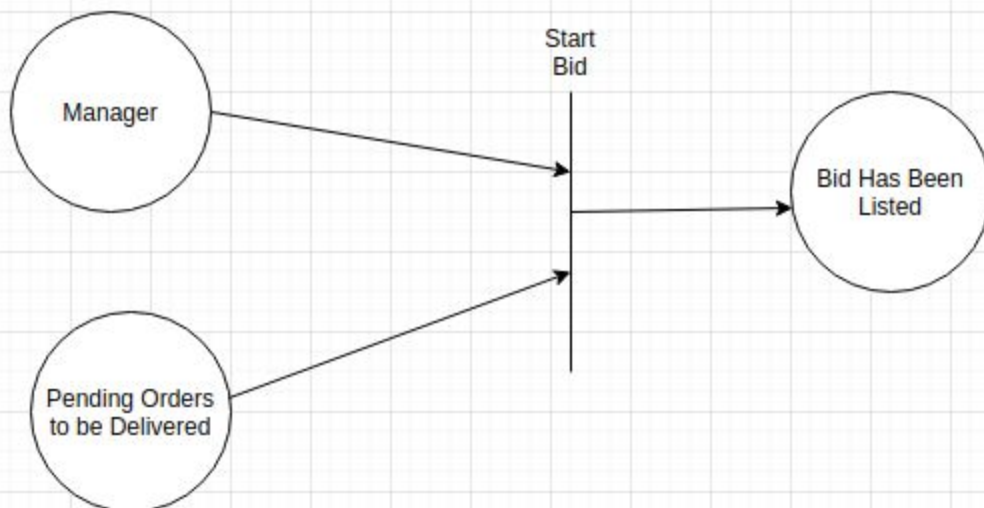
## Purchase Supplies

# Purchase Supplies

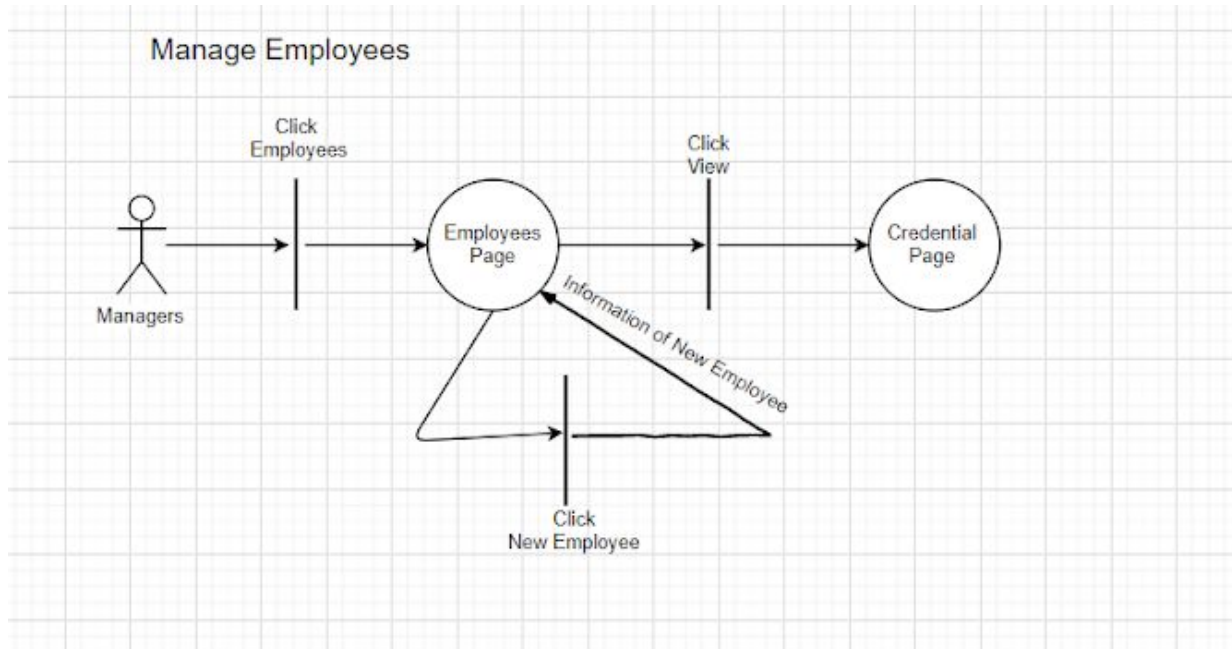


## Start Bids

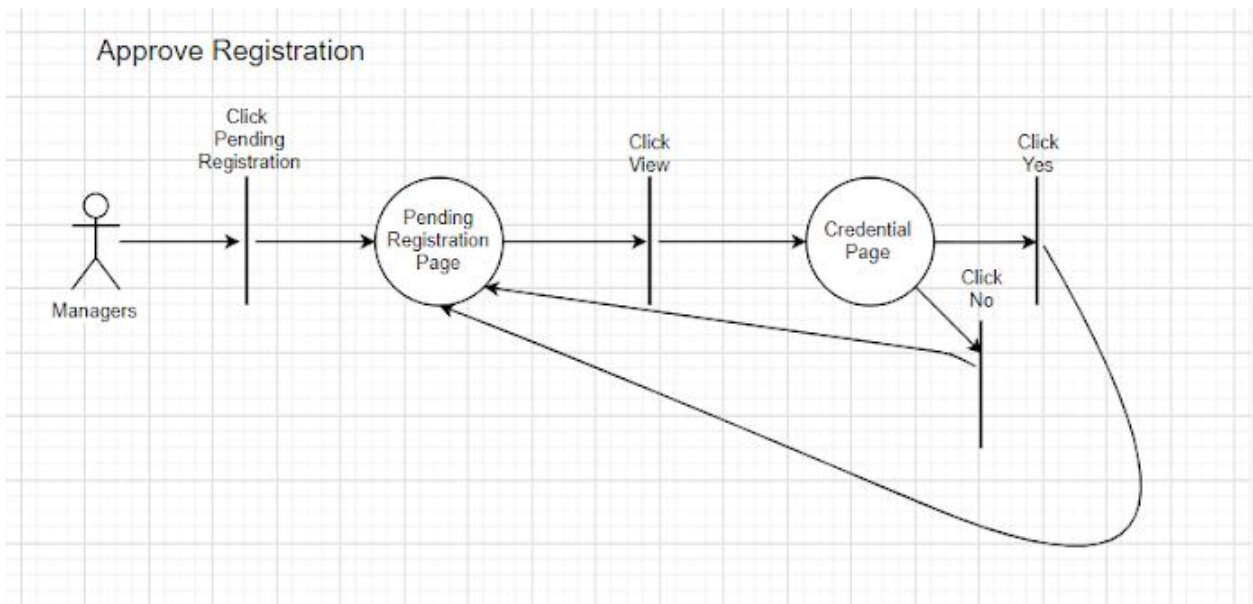
# Start Bids



## Manage Employees

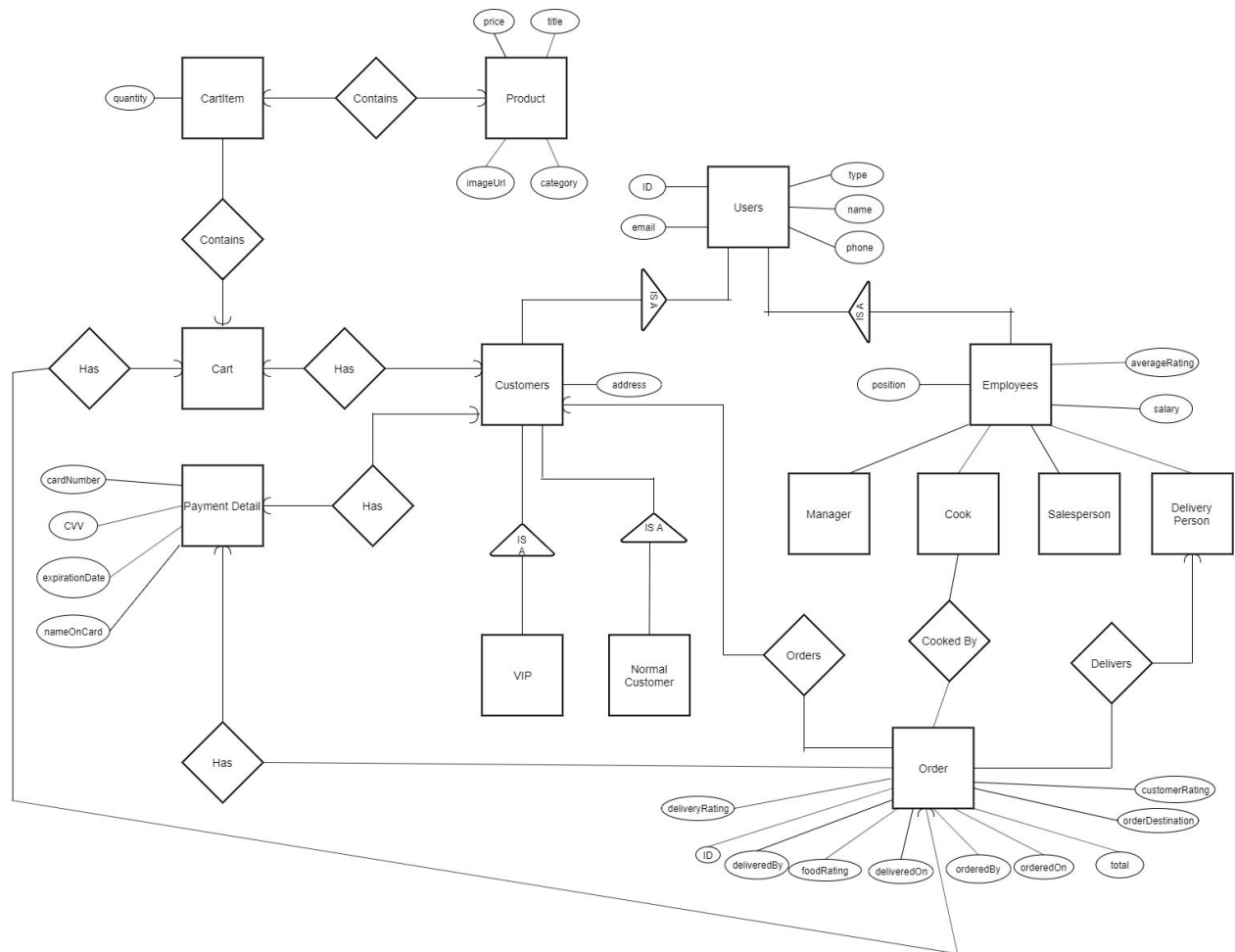


## Approve Registration





### 3. E/R Diagram



## 4. Detailed Design

### 1. addNewEmployee(formValue)

**Input:** New Employee Information

**Output:** None

**Description:** Add new employee's information to the database

```
addNewEmployee(formValue)
{
    let secondaryApp =
firebase.initializeApp(environment.firebase, "Secondary");

secondaryApp.auth().createUserWithEmailAndPassword(formValue.email, "123456
").then(userCredentials=>{
    let tempUser:User =
{uid:userCredentials.user.uid,email:userCredentials.user.email,phone:formV
alue.phone,name:formValue.name,type:"employee"};
    this.userServe.addUser(tempUser);
    let tempEmployee:Employee =
{uid:userCredentials.user.uid,position:formValue.position,salary:formValue
.salary};
    this.emplServe.addEmployee(tempEmployee);
    secondaryApp.auth().signOut();
    });
}
```

## 2. login(email:string, password:string)

**Input:** Email, Password

**Output:** redirected to appropriate URL

**Description:** Allows a person to login, and DB returns proper type and displays appropriate page

```
login(email:string, password:string)
{
    this.afAuth.auth.signInWithEmailAndPassword(email,
password).then(userCredentials=>{
    this.user$.pipe(take(1)).subscribe(user=>{
        this.userService.getUser(user.uid).pipe(take(1)).subscribe(user=>{
            if(user.type=="customer")
            {
                this.router.navigateByUrl("/" + user.type);
            }
            else
            {
                this.emplServe.getEmployee(user.uid).pipe(take(1)).subscribe(employee=>{
                    this.router.navigateByUrl("/" + employee.position);
                })
            }
        })
    })
}).catch(error=>{this.error = error});
}
```

## 3. register(email:string, password:string)

**Input:** email, password

**Output:** None

**Description:** Creates a customer object with the email and password

```
register(email:string, password:string)
{
    this.afAuth.auth.createUserWithEmailAndPassword(email,password);
}
```

#### 4. logout()

**Input:** none

**Output:** none

**Description:** Logs current user out

```
logout()  
{  
  this.afAuth.auth.signOut();  
  this.router.navigateByUrl("");  
}
```

#### 5. guestLogin()

**Input:** none

**Output:** none

**Description:** Redirects to guest homepage

```
guestLogin()  
{  
  this.afAuth.auth.signInAnonymously().then(guestCredentials=>{  
    this.router.navigateByUrl("/guest");  
  });  
}
```

## 6. addToCart(product:Product)

**Input:** Product

**Output:** none

**Description:** Added product to cart

```
addToCart (product:Product)
{
  this.authServe.user$.pipe (take (1)) .subscribe (user=>{
    this.custServe.getCustomer (user.uid) .pipe (take (1)) .subscribe (customer=>{
      for (let cartItem of customer.shoppingCart)
      {
        if (cartItem.product.title == product.title)
        {
          cartItem.quantity += 1;
          this.custServe.updateCustomer (user.uid, customer);
          return;
        }
      }
      customer.shoppingCart.push ({product:product, quantity:1});
      this.custServe.updateCustomer (user.uid, customer);
    });
  });
}
```

## 7. removeFromCart(product:Product)

**Input:** product

**Output:** none

**Description:** Remove product from cart

```
removeFromCart (product:Product)
{
  this.authServe.user$.pipe (take (1)) .subscribe (user=>{
    this.custServe.getCustomer (user.uid) .pipe (take (1)) .subscribe (customer=>{
      for (let cartIndex = 0; cartIndex < customer.shoppingCart.length; cartIndex++)
      {
        if (customer.shoppingCart[cartIndex].product.title == product.title)
        {
          customer.shoppingCart[cartIndex].quantity -= 1;
          if (customer.shoppingCart[cartIndex].quantity == 0)
          {
            customer.shoppingCart.splice (cartIndex, 1);
          }
          this.custServe.updateCustomer (user.uid, customer);
          return;
        }
      }
    });
  });
}
```

## 8. getCustomer()

**Input:** none

**Output:** customer object

**Description:** Returns customer object

```
getCustomer ()
{
  return this.custServe.getCurrentCustomer ();
}
```

## 9. getUser()

**Input:** none

**Output:** user object

**Description:** Returns user object

```
getUser()  
  
{  
    return this.custServe.getCurrentUser();  
}
```

## 10. updateCart(customer:Customer)

**Input:** Customer

**Output:** updated cart

**Description:** Customer object updates its cart member

```
updateCart(customer:Customer)  
  
{  
    this.authServe.user$.pipe(take(1)).subscribe(user=>{  
        this.custServe.updateCustomer(user.uid,customer);  
    })  
}
```

## 11. addToGuestCart(product:Product)

**Input:** product

**Output:** none

**Description:** Adds the product to the guest user's card

```
addToGuestCart (product:Product)
{
  this.cart = JSON.parse(localStorage.getItem("cart"));
  for(let cartItem of this.cart)
  {
    if(cartItem.product.title == product.title)
    {
      cartItem.quantity += 1;
      localStorage.setItem("cart",JSON.stringify(this.cart));
      this.cart$.next(this.cart);
      return;
    }
  }
  this.cart.push({product:product,quantity:1});
  localStorage.setItem("cart",JSON.stringify(this.cart));
  this.cart$.next(this.cart);
  return;
}
```



## 12. removeFromGuestCart(product:Product)

**Input:** product

**Output:** none

**Description:** Remove the product from the guest's cart

```
removeFromGuestCart (product:Product)
{
  this.cart = JSON.parse(localStorage.getItem("cart"));
  for(let cartIndex = 0;cartIndex < this.cart.length;cartIndex++)
  {
    if(this.cart[cartIndex].product.title == product.title)
    {
      this.cart[cartIndex].quantity -= 1;
      if(this.cart[cartIndex].quantity == 0)
      {
        this.cart.splice(cartIndex,1);
      }
      localStorage.setItem("cart",JSON.stringify(this.cart));
      this.cart$.next(this.cart);
      return;
    }
  }
}
```

## 13. addCustomer(customer:Customer)

**Input:** customer

**Output:** none

**Description:** Adds customer

```
addCustomer (customer:Customer)
{
  this.customerCollection.doc(customer.uid).set(customer);
}
```

#### 14. removeCustomer(customer:Customer)

**Input:** customer

**Output:** None

**Description:** Removes Customer

```
removeCustomer(customer:Customer)
{
    this.afs.doc("customers/" + customer.uid).delete();
}
```

#### 15. updateCustomer(uid:string, customer:Customer)

**Input:** uid, customer

**Output:** none

**Description:** Update customer object

```
updateCustomer(uid:string, customer:Customer)
{
    this.afs.doc("customers/" + uid).update(customer);
}
```

#### 16. getCustomer(uid:string) : Observable<Customer>

**Input:** uid

**Output:** observable<customer>

**Description:** Returns an object to observe changes in the customer

```
getCustomer(uid:string):Observable<Customer>
{
    return this.afs.doc("customers/" + uid).valueChanges() as Observable<Customer>;
}
```

## 17. getUser(uid:string) : Observable<User>

**Input:** uid

**Output:** observable<user>

**Description:** Returns an object to observe changes in the user

```
getUser(uid:string):Observable<User>
{
    return this.userService.getUser(uid);
}
```

## 18. getCurrentUser()

**Input:** none

**Output:** user object

**Description:** Get user object from the database

```
getCurrentUser()
{
    return this.authService.user$.pipe(switchMap(user=>{
        return this.getUser(user.uid);
    }));
}
```

## 19. getCurrentCustomer()

**Input:** none

**Output:** customer object

**Description:** Get customer object from the database

```
getCurrentCustomer()
{
    return this.authService.user$.pipe(switchMap(user=>{
        return this.getCustomer(user.uid)
    }));
}
```

## 20. addEmployee(employee:Employee)

**Input:** employee

**Output:** none

**Description:** Adds employee to the database

```
addEmployee (employee:Employee)
{
    this.employeeCollection.doc (employee.uid) .set (employee);
}
```

## 21. removeEmployee(employee:Employee)

**Input:** employee

**Output:** none

**Description:** Remove employee from the database

```
removeEmployee (employee:Employee)
{
    this.afs.doc ("employees/" + employee.uid) .delete ();
}
```

## 22. getEmployee(uid:string): Observable<Employee>

**Input:** String of an employee

**Output:** Returns the name of the employee

**Description:** Finds the name of the employee in the input and returns it

```
getEmployee (uid:string) :Observable<Employee>
{
    return this.afs.doc ("employees/" + uid) .valueChanges () as Observable<Employee>;
}
```

## 23. getUser(uid:string) : Observable<User>

**Input:** A string of a user

**Output:** Returns the name of user

**Description:** Finds the name of the user in the input and outputs it

```
getUser (uid:string) :Observable<User>
{
    return this.userServe.getUser (uid); }
}
```

## 24. addGuest(guest:Guest)

**Input:** guest

**Output:** None

**Description:** Adds guest to guest database

```
addGuest(guest:Guest)
{
    this.guestCollection.add(guest);
}
```

## 25. removeGuest(guest:Guest)

**Input:** guest

**Output:** None

**Description:** Guest deleted from database

```
removeGuest(guest:Guest)
{
    this.afs.doc("guests/" + guest.uid).delete();
}
```

## 26. getGuest(uid:string) : Observable<Guest>

**Input:** uid

**Output:** Returns guest object

**Description:** Calls the guest object with parameter uid, and returns it.

```
getGuest(uid:string):Observable<Guest>
{
    return this.afs.doc("guests/" + uid).valueChanges() as Observable<Guest>;
}
```

## 27. addOrder(order:Order)

**Input:** Customer's order

**Output:** Nothing

**Description:** Creates an id for the order and adds it into the "orderCollection" database

```
addOrder(order:Order)
{
    let id = this.afs.createId()
    this.orderCollection.doc(id).set(order);
    return id; }
}
```

## 28. removeOrder(order:Order)

**Input:** Order object

**Output:** none

**Description:** removes an order object

```
removeOrder (order:Order)
{
    this.afs.doc("orders/" + order.uid).delete();
}
```

## 29. updateOrder(uid:string, order:Order)

**Input:** takes in string

**Output:** none

**Description:** takes in string and updates order

```
updateOrder (uid:string,order:Order)
{
    this.afs.doc("orders/" + uid).update(order);
}
```

## 30. getOrder(uid:string): Observable<Order>

**Input:** takes in a string

**Output:** returns order

**Description:** Takes a string and returns an order

```
getOrder (uid:string) :Observable<Order>
{
    return this.afs.doc("orders/" + uid).valueChanges() as Observable<Order>;
}
```

## 31. create(product:Product)

**Input:** product object

**Output:** none

**Description:** A Product object is created

```
create (product:Product)
{
    this.productsCollection.add(product);
}
```

### 32. lookUp(uid:string): Observable<Product>

**Input:** Any string

**Output:** The string as the desired product

**Description:** Takes in a string and a product and returns a string as that product

```
lookUp(uid:string):Observable<Product>
{
    return this.afs.doc('products/'+uid).valueChanges() as Observable<Product>;
}
```

### 33. update(uid:string, product:Product)

**Input:** Any string and any product

**Output:** Nothing

**Description:** Changes the specified and replaces it with the product

```
update(uid:string, product:Product)
{
    return this.afs.doc('products/'+uid).update(product);
}
```

### 34. delete(uid:string)

**Input:** Any string

**Output:** The string

**Description:** Finds and deletes a specified string and returns it

```
delete(uid:string)
{
    return this.afs.doc('products/'+uid).delete();
}
```

### 35. addUser(user:User)

**Input:** Name of any user of type user

**Output:** Nothing

**Description:** Adds the specified user

```
addUser(user:User)
{
    this.userCollection.doc(user.uid).set(user); }
}
```

### 36. removeUser(user:User)

**Input:** Name of any user of type user

**Output:** Nothing

**Description:** Removes the specified user

```
removeUser(user:User)
{
    this.afs.doc("users/" + user.uid).delete();
}
```

### 37. getUser(uid:string): Observable<User>

**Input:** String of the user you want to find

**Output:** String of the user

**Description:** Returns the name of the input string, if it exists

```
getUser(uid:string):Observable<User>
{
    return this.afs.doc("users/" + uid).valueChanges() as Observable<User>;
}
```



## 5. System Screens


### Main Page




# Order Page

Kitchen Zealot


MenuLogin




Beef with Broccoli  
\$8.00




Chicken Chow Mein  
\$6.00




General Tso's Chicken  
\$9.00



Kung Pao Chicken  
\$7.00



Orange Chicken  
\$8.00




Beef with Broccoli  
\$8.00


# Cart

Kitchen Zealot


OrderCustomer




Beef with Broccoli  
\$8.00  
Add to Cart




Chicken Chow Mein  
\$6.00  
Add to Cart




General Tso's Chicken  
\$9.00  
1 in cart



Kung Pao Chicken  
\$7.00



Orange Chicken  
\$8.00



Beef with Broccoli  
\$8.00

Product	Price	Quantity
Orange Chicken	\$8.00	1
Kung Pao Chicken	\$7.00	1
General Tso's Chicken	\$9.00	1
Subtotal	\$24.00	

Order

## CheckOut Page

Kitchen Zealot

Order Customer ▾

Name

Customer

Phone Number

1234567890

Address

City College

Name on Card

Credit Card Number

Expiration Date

CVV

Product	Price	Quantity
Chicken Chow Mein	\$6.00	34
Beef with Broccoli	\$8.00	63
Hunan Chicken	\$7.00	102
Orange Chicken	\$8.00	106
Subtotal	\$2,270.00	
Tax	+\$181.60	
Customer Discount	-\$181.60	
Total	\$2,270.00	

## 6. Minutes

Meeting # 1 (3 hours) : We discussed who are team members are, their skill levels, basic planning of the system, what languages, technologies to learn and use, when we would have future checkpoints, and what parts and roles each of us would fill in

Meeting # 2 (6 hours): We discussed and worked on the Phase 1 template report, and equally distributed the work while bouncing ideas off of each other and improving on it.

Meeting # 3 (6 hours): We discussed and worked on the Phase 2 template report, and equally distributed the work. We each made a handful of diagrams for the use-case and worked together for the general collaboration class diagram.

## 7. Git Repository

<https://github.com/AbtahiChowdhury/csc322>