



# RESTROMATION

## Final Project – Team 2

GitHub: [https://github.com/harshilr/Restaurant\\_Automation](https://github.com/harshilr/Restaurant_Automation)

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Cégep de la Gaspésie et des Îles  
Mobile Application Development

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## 1) Introduction

The purpose of this project is to create an Android Mobile Application which will be used to let the user reserve a table and order food for a restaurant. This application aims at helping the employees to manage the crowd and ease up the working in a restaurant.

Mainly, the Employees and the customers will be the primary users of the application. These users will depend on the app to reserve a table and order food, and on the other side the employees will use the app to process orders and track the status of tables and ordered items by the customers.

The purpose of this documentation is to define the overall project specification as well as the general information of the prototype development. In this case, the targeted readers of the document are the stakeholders, which are interested in the development of the application as well as the developers that will be creating the app.

## 2) Project Description

Restaurant Automation system is a Mobile application which helps the management of the restaurant easily. In other words, it reduces the manpower, increases accuracy, and makes it easy for the manager to manage the crowd easily. It is an easy to use application in this modern-day world, which will make life easy for both customers and the employees of the restaurant.

Throughout the development of the application, we will be following on the Agile Scrum framework. The project will be divided into several sprints, each building on top of the previous one. Each sprint will be divided into two-week iterations. After the completion of each sprint, we will present our progress on the application and our plan for the upcoming sprint.

### 2.1 Planned Sprint Timeline

Sprint	New Deliverables	Start Date	End Date
1	<ul style="list-style-type: none"><li>• Software Architecture Document</li><li>• User Stories Backlog</li><li>• Sprint 1 planning</li><li>• UI modelling of key components</li><li>• Database Creation</li><li>• API for authentication</li></ul>	May 5, 2020	May 17,2020


## 2.1) Users and Roles

### 2.1.1) Primary Users

- Customer
- Manager
- Cashier
- Chef
- Admin

## 2.2) Roles

### 2.2.1) Customer Roles

- Able to create an account (Register).
- Able to login using email and password.
- Will have an option to recover password
- Will have the option to change password.
- Can register into an application by providing following details
  - First Name
  - Last Name
  - Email
  - Password
- Can reserve a table for a particular number of people. (If the table is not available, you can see the average waiting time for a table).
- Can reserve more than one table, maximum 2.
- Can add multiple menu items to the cart.
- Select payment option through a card or at the counter.
- Options Dine in or Takeout.
- Gets notification of the available table.
- Delete the account.
- Logout of the account.
- Give feedback/review.

## Role Description:

The customer opens the app and signs up to the app providing their name, email, mobile no. and password. If the customer is already signed up he/she logs in to the app with their email and password.

Once logged in they can book a table in the restaurant based on the number of people. If available the app will assign them a table and reserve it for them. If not available, average waiting time will be shown to them.

After booking a table the customer will be able to see the menu on the home screen. Menu Items are divided according to their category. They can add food items to the cart with the quantity. Once all the desired items are added to the cart, the customers then, can proceed to order the food from the cart. They can choose the type of payment, either paying by card or pay at the counter. They can also choose to DINE IN or to take away the food.

### 2.2.2) Manager Roles

- Can login to the app using email and password
- Can change the password
- Add an employee. As per the role.
- See the status of all the tables (reserved and available).
- Add items into the menu based on category.
- See all the menu items of the menu.
- Change price of a menu item.
- Logout.
- See the list of employees.
- Modify employee's data.
- Add tables based on capacity.

### **Role Description:**

If the manager logs in to the app, he/she has various manipulation options.

The app allows the manager to add/remove or change the status of the table (available/reserved), add/remove employees.

Moreover, it shows the status of all the tables in the restaurant.

Managers can also add, remove or update the menu Items from the menu

### 2.2.3) Chef Roles

- Login using email and password
- Change password
- Gets Notification for any order.
- See the type of order (Dine in or Takeout).
- See the order details (Items, Table number).
- Change status of order.
- Can change the menu Item Status(Available or not available)
- Logout.

#### 2.2.4) Cashier Roles

- Check the status of order payment.
- Handle cash payments.
- Change status of payments.(Paid or not).
- Only handle take out - if paid.

## 2.3) Glossary of Terms

Some of the terms have different types and should be strictly followed.

- User Type : Customer, Manager, Chef, Cashier, Admin
- Menu Item Status : Available or Not Available
- Order Status : Ordered , In process, Complete, Cancelled
- Table Status : Reserved or Available
- Order Type : Dine In or Takeout
- Menu Category : Appetisers, main course , Dessert, Beverages
- Payment Type : Cash or Card

### 3) Requirements

#### 3.1) Software Requirements

##### 3.1.1) Functional Requirements

- Users can login/register to the app.
- Customers must be able to reserve a table.
- The application must allow the customers to order food
- A cart must be created to add the desired items.
- Customers must be notified if a table is available.
- Chef should be notified if a new order has been added.
- The manager should be able to track/change the status of a table, add/change items to the menu, add employees.
- Cashiers must be able to change the payment status of the order and generate bills.

##### 3.1.2) Non- Functional Requirements

- **Recoverability:** The app should automatically sign in the user every time he/she opens the app.
- **Data Integrity:** The app should show accurate and consistent data.
- **Usability:** The ease of use and learning to adapt the system should be satisfying to the user.
- **Security:** In case of malicious attack on the system, the system should function correctly.
- **Reliability** : The probability of failure free system must be higher and should be improved on a developmental basis

- **Data Efficient:** The app should be low-data consuming and still it should provide all the functionalities in low data.

## 3.2) Requirements

### 3.2.1) User Story

User Story ID:	RM- 01
Name:	as a user I want to register myself into the system
User Story Points:	5
Priority:	High
Description:	

User Story ID:	RM- 02
Name:	As a user I want to book a table to confirm my seat in restaurant.
User Story Points:	3
Priority:	moderate
Description:	

User Story ID:	RM-03
Name:	as a user I want to see the menu of the restaurant so that I can order food
User Story Points:	8
Priority:	High
Description:	



User Story ID:	RM- 04
Name:	as a user I want a notification once my table is booked
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-05
Name:	as a user I want to select multiple item from the menu
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-06
Name:	as a user I want a cart in which I can see all the items I have selected so that I can proceed further with order
User Story Points:	3
Priority:	Low
Description:	

User Story ID:	RM-07
Name:	as a user I want access to manipulate items into the cart so that I can add and delete or update the quantity
User Story Points:	3
Priority:	Low
Description:	

User Story ID:	RM-08
Name:	As a user I want multiple payment option after I place the order so that I can pay the bill.
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-09
Name:	as a user I want to see the order I have already placed
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-10
Name:	as a user I want notification once my order is confirmed and status is changed
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-11
Name:	as a user I want to able to logout from the application
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-12
Name:	as a user I want to see the details of the restaurant so that I can see amenities provided by restaurant
User Story Points:	3
Priority:	Moderate
Description:	

User Story ID:	RM-13
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Name:	As a user I want to select my dining option before I place my order.
User Story Points:	5
Priority:	Moderate
Description:	

User Story ID:	RM-14
Name:	As a Manager, I want to add Employees so that new employees can access the application.
User Story Points:	8
Priority:	High
Description:	

User Story ID:	RM-15
Name:	As a Manager, I want to modify and delete employees to make updated data available for employees.
User Story Points:	3
Priority:	Low
Description:	

User Story ID:	RM-16
Name:	As a Manager, I want to add menu items so that users can view new items.

User Story Points:	5
Priority:	Moderate
Description:	

User Story ID:	RM-17
Name:	As a Manager, I want to modify and delete Menu Items so that Menu Items are up-to-date.
User Story Points:	3
Priority:	Low
Description:	

User Story ID:	RM-18
Name:	As a Manager, I want to add Tables so that tables are available for use by customers.
User Story Points:	3
Priority:	Moderate
Description:	

User Story ID:	RM-19
Name:	As a Manager, I want to modify and delete tables so that updated information is available regarding tables.
User Story Points:	3

Priority:	Low
Description:	

User Story ID:	RM-20
Name:	As a manager, I want to see orders history & their current status of the restaurant.
User Story Points:	5
Priority:	Moderate
Description:	

User Story ID:	RM-21
Name:	As a manager, I want to see table's history & their current status of the restaurant.
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-22
Name:	As a Cashier, I want to Check status of payment to verify the payment status.
User Story Points:	5
Priority:	Moderate

Description:	
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User Story ID:	RM-23
Name:	As a Cashier, I want to see all the bills of restaurants of each tables.
User Story Points:	1
Priority:	Low
Description:	

User Story ID:	RM-24
Name:	As a Cashier, I want to modify payment status to make updated status of payment available.
User Story Points:	5
Priority:	Moderate
Description:	

User Story ID:	RM-25
Name:	As a Chef, I want to get Notifications when a new order is placed.
User Story Points:	8
Priority:	High
Description:	

User Story ID:	RM-26
Name:	As a Chef, I want to see the type of order so as to make sure to pack it for take-out or for serving inside the restaurant.
User Story Points:	5
Priority:	Moderate
Description:	

User Story ID:	RM-27
Name:	As a Chef, I want to see the Order Details so as to prepare the order.
User Story Points:	3
Priority:	Low
Description:	

User Story ID:	RM-28
Name:	As a Chef, I want to access to change the status of the order.
User Story Points:	5
Priority:	Moderate
Description:	



### 3.2) User Story Backlog

ID	Name	USP	Priority
RM-01	as a user I want to register myself into the system	5	High
RM-02	as a user I want to book a table in the restaurant	3	Moderate
RM-03	as a user I want to see the menu of the restaurant so that i can order food	8	High
RM-04	as a user I want a notification once my table is booked	1	low
RM-05	as a user I want to select multiple item from the menu	1	low
RM-06	as a user I want a cart in which I can see all the items i have selected so that I can proceed further with order	3	low
RM-07	as a user I want access to manipulate items into the cart so that I can add and delete or update the quantity	3	low
RM-08	As a user I want multiple payment option after i place the order so that I can pay the bill.	1	low
RM-09	as a user I want to see the order I have already placed	1	low
RM-10	as a user I want notification once my order is confirmed and status is changed	1	low
RM-11	as a user I want to able to logout from the application	1	low
RM-12	as a user I want to see the details of the restaurant so that I can see amenities provided y restaurant	3	moderate
RM-13	As a user I want to select my dining option before I place my order.	5	moderate
RM-14	As a Manager, I want to add Employees so that new employees can access the application.	8	high

RM-15	As a Manager, I want to modify and delete employees to make updated data available for employees.	3	low
RM-16	As a Manager, I want to add menu items so that users can view new items.	5	moderate
RM-17	As a Manager, I want to modify and delete Menu Items so that Menu Items are up-to-date.	3	low
RM-18	As a Manager, I want to add Tables so that tables are available for use by customers.	3	moderate
RM-19	As a Manager, I want to modify and delete tables so that updated information is available regarding tables.	3	low
RM-20	As a manager, I want to see orders history & their current status of the restaurant.	5	moderate
RM-21	As a manager, I want to see table's history & their current status of the restaurant.	1	low
RM-22	As a Cashier, I want to Check status of payment to verify the payment status.	5	moderate
RM-23	As a Cashier, I want to see all the bills of restaurants of each tables.	1	low
RM-24	As a Cashier, I want to modify payment status to make updated status of payment	5	moderate
RM-25	As a Chef, I want to get Notifications when a new order is placed.	8	High
RM-26	As a Chef, I want to see the type of order so as to make sure to pack it for take-out or for serving inside the restaurant.	5	moderate
RM-27	As a Chef, I want to see the Order Details so as to prepare the order.	3	low
RM-28	As a Chef, I want to access to change the status of the order.	5	moderate
	Total USP	99	

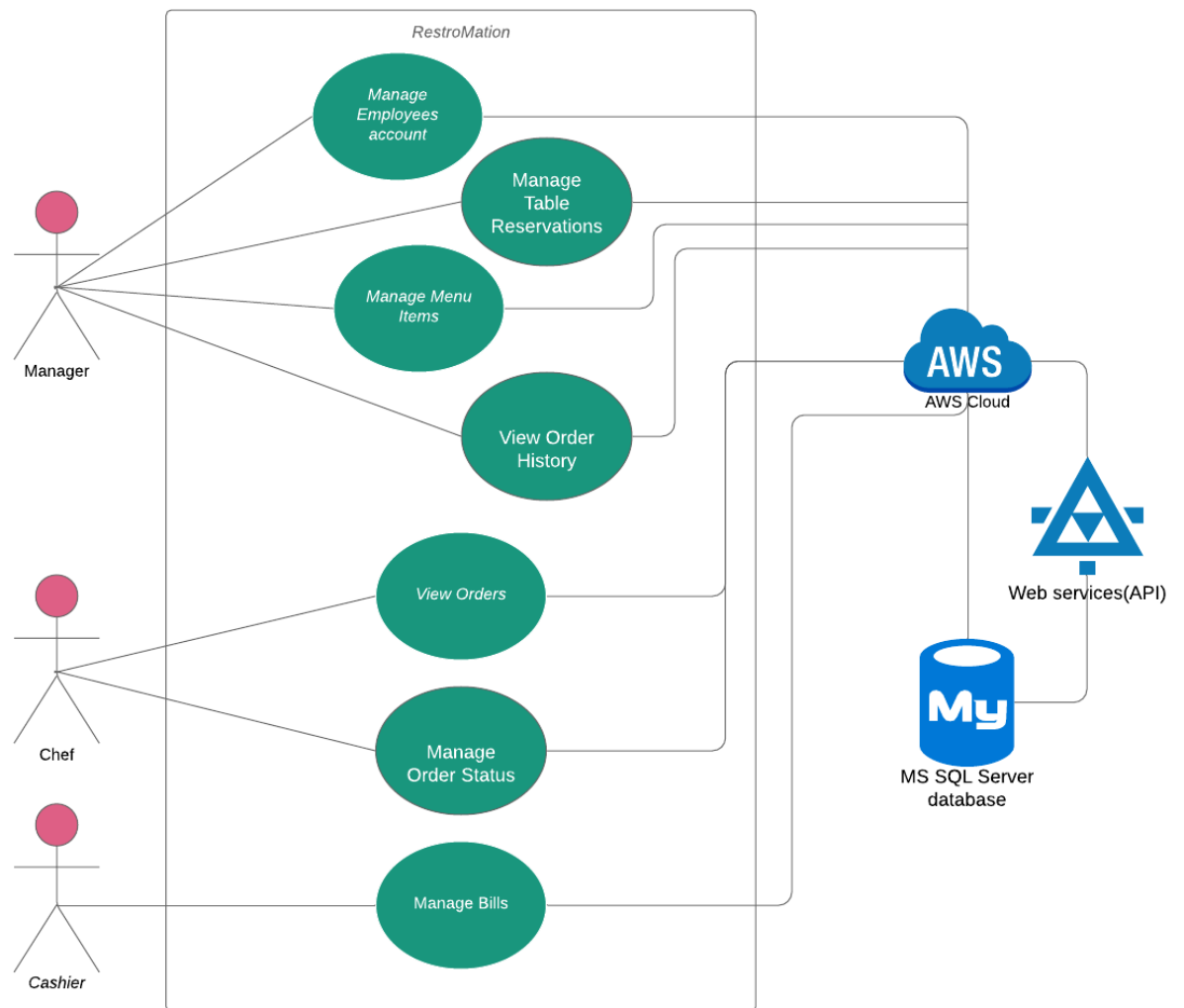
## 4) Planned User Stories

### 4.1) Sprint 1

Epic	User Story	Story Points	Priority	Status
RM-S-01	<b>RM-14</b> As a Manager, I want to add Employees so that new employees can access the application.	8	High	Done
	<b>RM-15</b> As a Manager, I want to modify and delete employees to make updated data available for employees	3	LOW	
	<b>RM-16</b> As a Manager, I want to add menu items so that users can view new items.	5	Moderate	Done
	<b>RM-17</b> As a Manager, I want to modify and delete Menu Items so that Menu Items are up-to-date.	3	low	Done
	<b>RM-18</b> As a Manager, I want to add Tables so that tables are available for use by customers.	3	moderate	Done
	<b>RM-19</b> As a Manager, I want to modify and delete tables so that updated information is available regarding tables.	3	low	

## 5) Use Case Diagram

### 5.1) Use case Diagram (Employee Side)



### 5.1.1) Fully Dressed Use Case (Employee side)

#### Manage Employee Account

Use case section	Comments
Use case Name	Manage Employee Account
Level	Manager-Level
Primary Actor	Manager
Stakeholder and Interest	Manager: As a manager, I want access to database and server. So that, I can add, update and remove any employee from database.
Preconditions	- Only Manager can manage employee account. - Manager must have knowledge about handling database.
Success Guarantee	Manager can successfully add, modify, and remove any employee from database.
Main Success Scenario	- Manager can add and modify employee details. -Manager can delete employee information if employee left job or fired.
Extensions	1.If Manager cannot manage employees. -Manager is not authenticated. 2. If there is any empty or invalid field, it will show error.
Special requirements	Device should connect to internet.
Technology and Variants list	This application can run in any android device. Variants- MySql, Visual studio
Frequency of occurrence	Could be nearly continuous.

#### Manage Table Reservation

Use case section	Comments
Use case Name	Manage Table Reservation
Level	Manager-Level
Primary Actor	Manager
Stakeholder and Interest	Manager: As a manager, I want access to database and server. So that, I can manage table reservation, add, modify and delete table into database.
Preconditions	- Only Manager can manage reservation of table.

	<ul style="list-style-type: none"> <li>- Manager can change status of table.</li> <li>- Manager must have knowledge about handling database.</li> </ul>
<b>Success Guarantee</b>	Manager can successfully add, modify, and remove any table from database. Manager can successfully change table status.
<b>Main Success Scenario</b>	<ul style="list-style-type: none"> <li>-Manager can change status of table.</li> <li>- Manager can add and modify table details.</li> <li>-Manager can delete table information from database.</li> </ul>
<b>Extensions</b>	1.If Manager cannot manage table reservation. -Manager is not authenticated. 2. If there is any empty or invalid field, it will show error.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

#### Manage Menu items

Use case section	Comments
<b>Use case Name</b>	Manage Menu items
<b>Level</b>	Manager-Level
<b>Primary Actor</b>	Manager
<b>Stakeholder and Interest</b>	Manager: As a manager, I want access to database and server. So that, I can add, update and remove any menu item according to category from database.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>- Only Manager can manage menu items.</li> <li>- Manager must have knowledge about handling database.</li> </ul>
<b>Success Guarantee</b>	Manager can successfully add, modify, and remove any menu item according to category into database.
<b>Main Success Scenario</b>	<ul style="list-style-type: none"> <li>- Manager can add and modify menu items details.</li> <li>-Manager can add new category of menu into DB.</li> <li>-Manager can delete any menu items.</li> </ul>
<b>Extensions</b>	1.If Manager cannot manage menu items. -Manager is not authenticated. 2. If there is any empty or invalid field, it will show error.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio

<b>Frequency of occurrence</b>	Could be nearly continuous.
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#### View Order History

<b>Use case section</b>	<b>Comments</b>
<b>Use case Name</b>	View Order History
<b>Level</b>	Manager-Level
<b>Primary Actor</b>	Manager
<b>Stakeholder and Interest</b>	Manager: As a manager, I can view order history according to date, month and year.
<b>Preconditions</b>	- Only Manager can view history of orders.
<b>Success Guarantee</b>	-Manager can successfully view order history. -Manager can choose time period of showing history.
<b>Main Success Scenario</b>	- Manger can go to view history screen.
<b>Extensions</b>	1.If Manager cannot view table history. -Manager is not authenticated. - Error exception has occurred.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

#### View Orders

<b>Use case section</b>	<b>Comments</b>
<b>Use case Name</b>	View Orders
<b>Level</b>	Chef-Level
<b>Primary Actor</b>	Chef
<b>Stakeholder and Interest</b>	Chef: As a chef, I want to be able to view all orders with remaining time. So that, I can prepare orders according to time.
<b>Preconditions</b>	-The database is up and running.

	<ul style="list-style-type: none"> <li>- All orders have to send to chef's screen.</li> <li>- Chef can view orders.</li> </ul>
<b>Success Guarantee</b>	<ul style="list-style-type: none"> <li>-All new orders would successfully send to chef's screen on time.</li> <li>-Chef can successfully remove done order from queue.</li> </ul>
<b>Main Success Scenario</b>	<ul style="list-style-type: none"> <li>-Chef can view all new orders on time.</li> <li>-Chef can view all orders according to priority(Older one on top and latest in bottom)</li> <li>-Chef can view order queue and wait queue from the database.</li> </ul>
<b>Extensions</b>	1.If Chef cannot view orders. <ul style="list-style-type: none"> <li>-Chef is not authenticated.</li> <li>-Slow server</li> <li>-Error exception has occurred.</li> </ul>
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

#### Manage order status

<b>Use case section</b>	<b>Comments</b>
<b>Use case Name</b>	Manage order status
<b>Level</b>	Chef-Level
<b>Primary Actor</b>	Chef
<b>Stakeholder and Interest</b>	Chef: As a chef, I want to be able to change the status of orders (Wait and done)
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>-The database is up and running.</li> <li>- All orders should be displayed on chef's screen.</li> <li>-Only chef can select an order to cook, and flag an order as done.</li> </ul>
<b>Success Guarantee</b>	Chef can successfully change status of orders (Waiting or done)
<b>Main Success Scenario</b>	-Chef can select orders to cook and flag an order is done.
<b>Extensions</b>	1.If Chef unable to manage order status. <ul style="list-style-type: none"> <li>-Chef is not authenticated.</li> <li>-Slow server</li> <li>-Error exception has occurred.</li> </ul>
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio

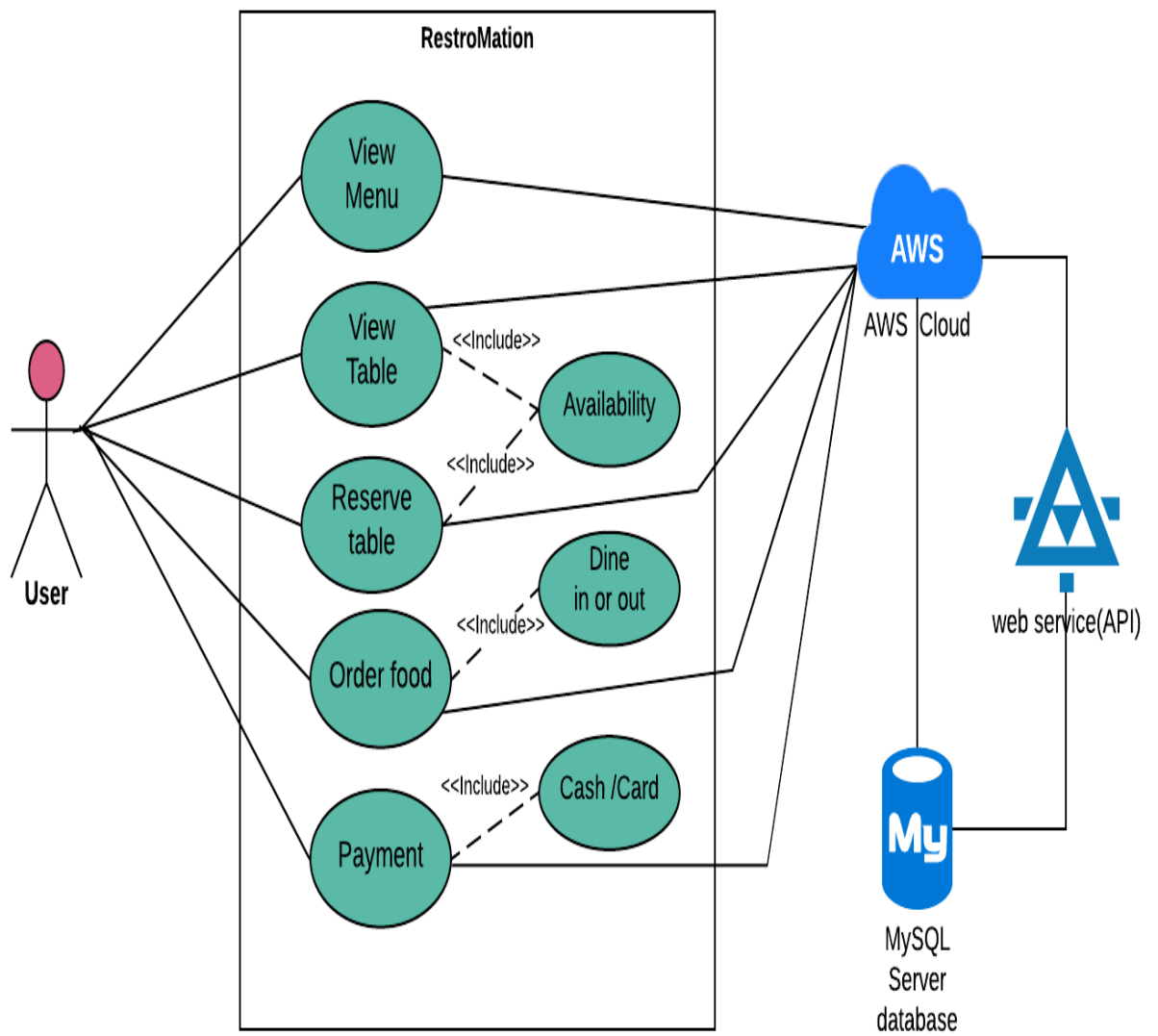


<b>Frequency of occurrence</b>	Could be nearly continuous.
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## Manage Bills

Use case section	Comments
<b>Use case Name</b>	Manage Bills
<b>Level</b>	Cashier-Level
<b>Primary Actor</b>	Cashier
<b>Stakeholder and Interest</b>	Cashier: As a cashier, I want to be able to manage bills (Cash/Card) of customer. So that, I can take payment. -Wants accurate, fast entry, and no payment errors, as cash drawer shortages are deducted from his/her salary.
<b>Preconditions</b>	-The database is up and running. -Cashier is identified and authenticated. - All due payments should be displayed on cashier's screen. -Only cashier can take payment and change status to PAID.
<b>Success Guarantee</b>	-Tax is correctly calculated. - Accounting and Inventory are updated. - Commissions recorded. - Receipt is generated. - Payment authorization approvals are recorded.
<b>Main Success Scenario</b>	-System presents receipt. -. Customer leaves with receipt and goods (if any). -Customer pays and System handles payment.
<b>Extensions</b>	1.If cashier unable to manage Bills. -Cashier is not authenticated. -Slow server -Error exception has occurred.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

## 5.2) Use case Diagram (Customer Side)



### 5.2.1) Fully Dressed Use Case (Customer side)

#### View Menu

Use case section	Comments
Use case Name	View Menu
Level	User-Level
Primary Actor	User
Stakeholder and Interest	User: As a user, I want to view menu according to food category items. So that, I can view all available menu items easily.
Preconditions	-The database is up and running.
Success Guarantee	-User Successfully land to menu screen. .
Main Success Scenario	-Customer selects "View Menu" from the main screen. - System displays a categorized list of food items available to order based on ingredients available.
Extensions	1.If user unable to View menu. -User is not authenticated. -Slow server -Error exception has occurred.
Special requirements	Device should connect to internet.
Technology and Variants list	This application can run in any android device. Variants- MySql, Visual studio
Frequency of occurrence	Could be nearly continuous.

#### View Table

Use case section	Comments
Use case Name	View Table
Level	User-Level
Primary Actor	User
Stakeholder and Interest	User: As a user, I want to view all types of available tables list. So that, I can find a perfect table according to my requirement.
Preconditions	-The database is up and running.

<b>Success Guarantee</b>	-User Successfully can view list of available table and waiting for table.
<b>Main Success Scenario</b>	User can view all available tables and waiting tables list at a same time.
<b>Extensions</b>	1.If user unable to View table. -User is not authenticated. -Slow server -Error exception has occurred.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

#### Reserve Table

<b>Use case section</b>	<b>Comments</b>
<b>Use case Name</b>	Reserve Table
<b>Level</b>	User-Level
<b>Primary Actor</b>	User
<b>Stakeholder and Interest</b>	User: As a use, I want to view all types of available tables list. So that, I can reserve table according to my requirement.
<b>Preconditions</b>	-The database is up and running.
<b>Success Guarantee</b>	-User Successfully reserve one or multiple(no more than 3) available table.
<b>Main Success Scenario</b>	-Successful reservation of table is main success scenario.
<b>Extensions</b>	1.If user unable to reserve table. -Table must be available at time of reservation. -User is not authenticated. -Slow server -Error exception has occurred.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

## Order Food

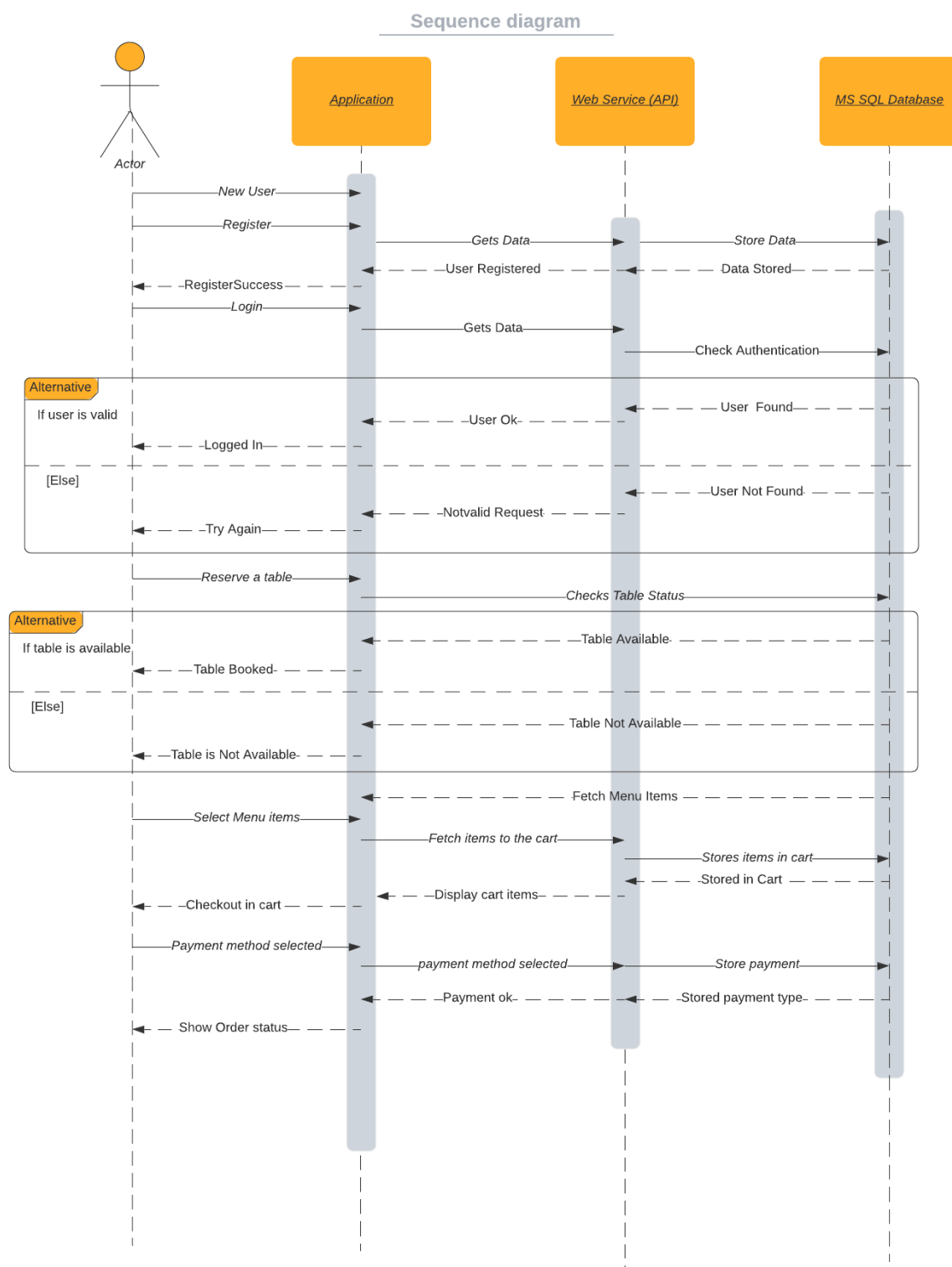
Use case section	Comments
Use case Name	Order Food
Level	User-Level
Primary Actor	User
Stakeholder and Interest	User: -As a user, I can select food item of my choice and specifies the desired side meal. -As a user, I want an option for Dine-in or Dine-out. So that, I can enjoy food in my comfort zone. -As a user, when I finished adding meals, I can select "View Order" option. -As a user, I can easily add food items into my cart.
Preconditions	-The database is up and running. -User has placed the order. -User can order only those food items which are available. -User cannot modify cart items after order placed.
Success Guarantee	-User Successfully order multiple food items. -User can modify their order into cart. -User successfully place order.
Main Success Scenario	-System displays a categorized list of food items available to order based on ingredients available. -User can cancel their order after payment successfully.
Extensions	1.If user unable to order table. -User is not authenticated. -Slow server -Error exception has occurred.
Special requirements	Device should connect to internet.
Technology and Variants list	This application can run in any android device. Variants- MySql, Visual studio
Frequency of occurrence	Could be nearly continuous.

## Payment

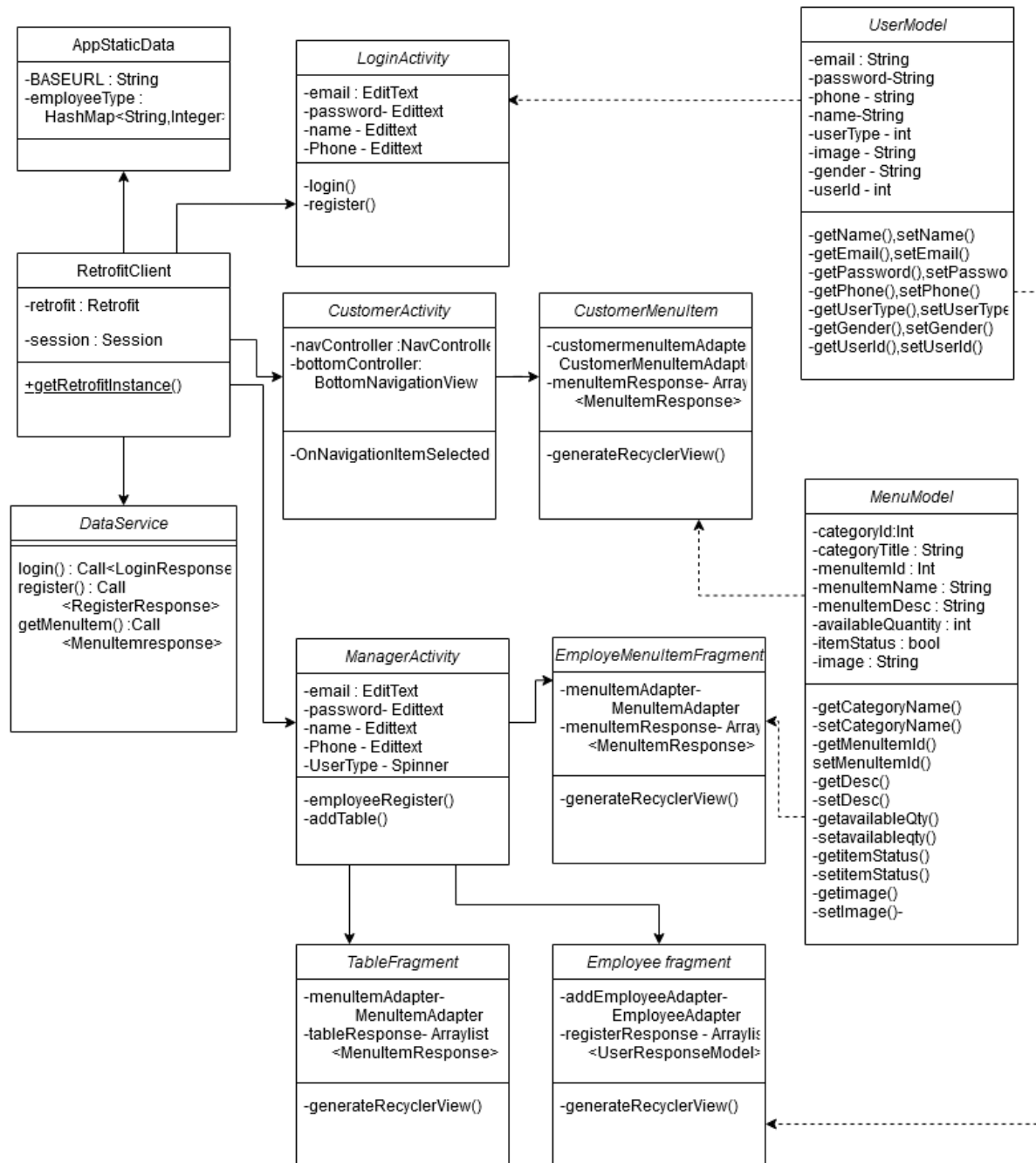
Use case section	Comments
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<b>Use case Name</b>	Payment
<b>Level</b>	User-Level
<b>Primary Actor</b>	User
<b>Stakeholder and Interest</b>	User: -As a user, I can make payment by cash or card.
<b>Preconditions</b>	-User should select payment method. -The database is up and running.
<b>Success Guarantee</b>	-User Successfully pay bills by cash or card.
<b>Main Success Scenario</b>	-User can pay their bill by two option, by cash and using card (Which is fully secure)
<b>Extensions</b>	1.If user unable to make payment. - Card is invalid (Online payment) -User is not authenticated. -Slow server -Error exception has occurred.
<b>Special requirements</b>	Device should connect to internet.
<b>Technology and Variants list</b>	This application can run in any android device. Variants- MySql, Visual studio
<b>Frequency of occurrence</b>	Could be nearly continuous.

## 6) Sequence Diagram



## 7) Class Diagram





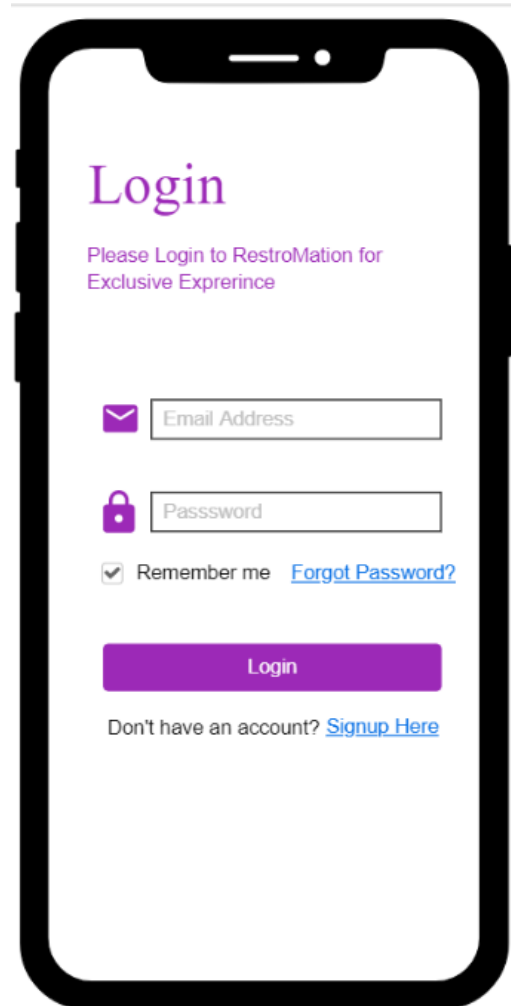
## 8) Mock-Ups

### 8.1) Customer side



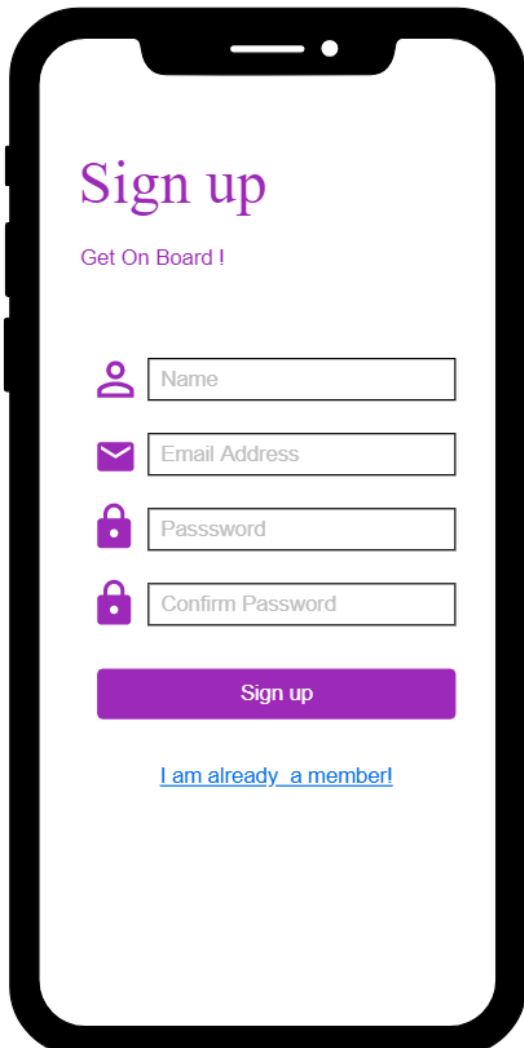
#### 8.1.1 Splash Screen

Splash screen whenever app is opened.




#### 8.1.2 Login Screen


The customer and employee can login into the system through login screen.





Sign up

Get On Board !







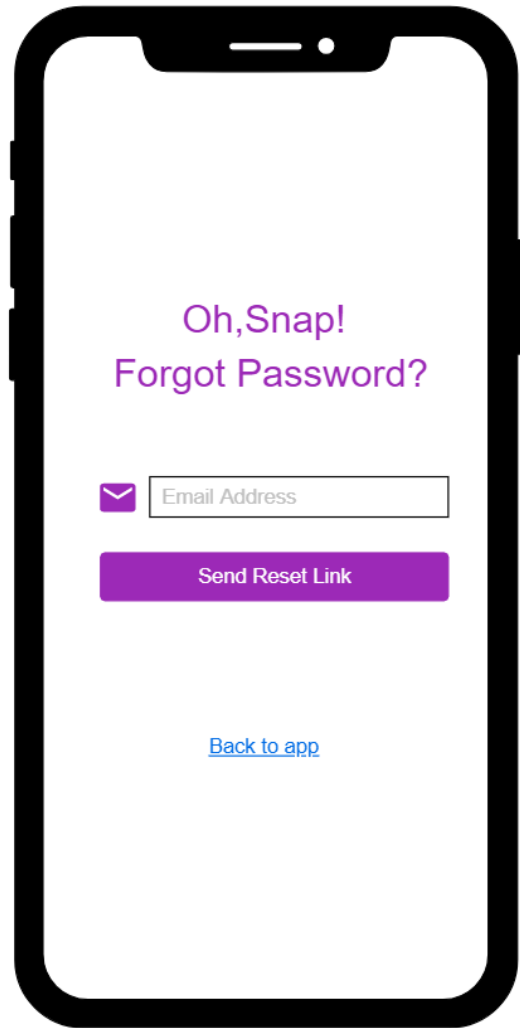


[Sign up](#)


[I am already a member!](#)

#### 8.1.4 Register Screen

Customer can able to register into the system with their legit credentials.



Oh,Snap!  
Forgot Password?

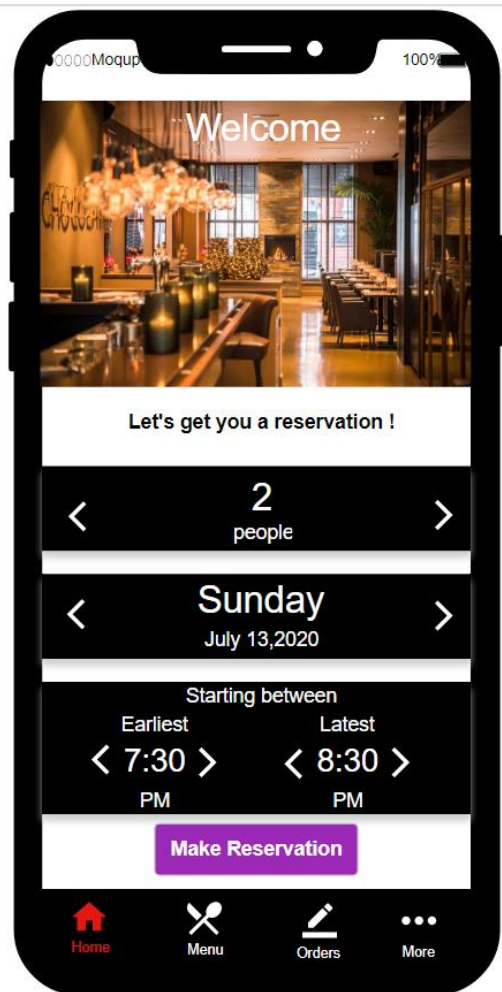


[Send Reset Link](#)

[Back to app](#)

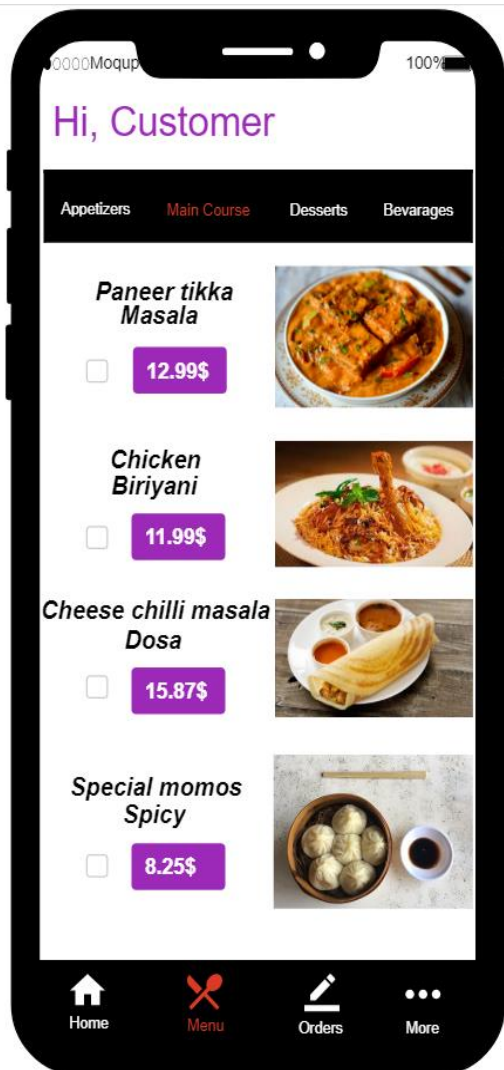
#### 8.1.3 Forgot Password

Customer and employee can recover their new password in case they forgot the current password.



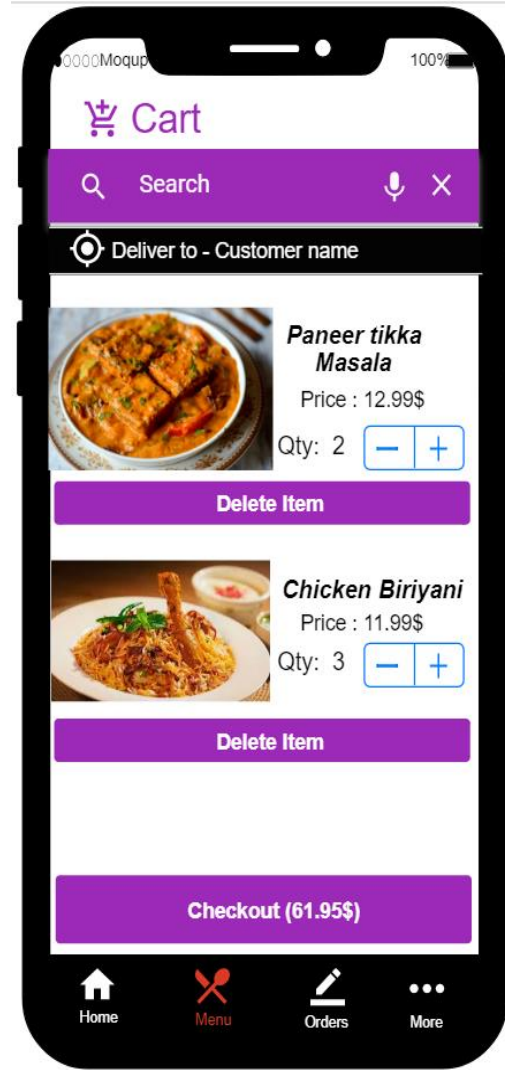
#### 8.1.5 Reservation Screen

Customer would able to book table and see if table is available.



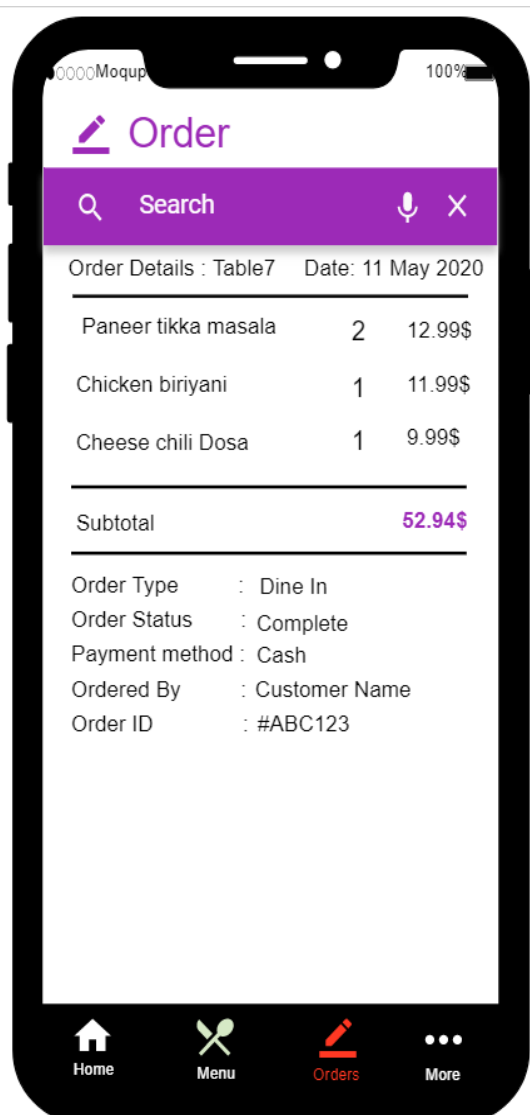
#### 8.1.7 Menu Items

Customer would able to see all the menu items and able to select the quantity to order



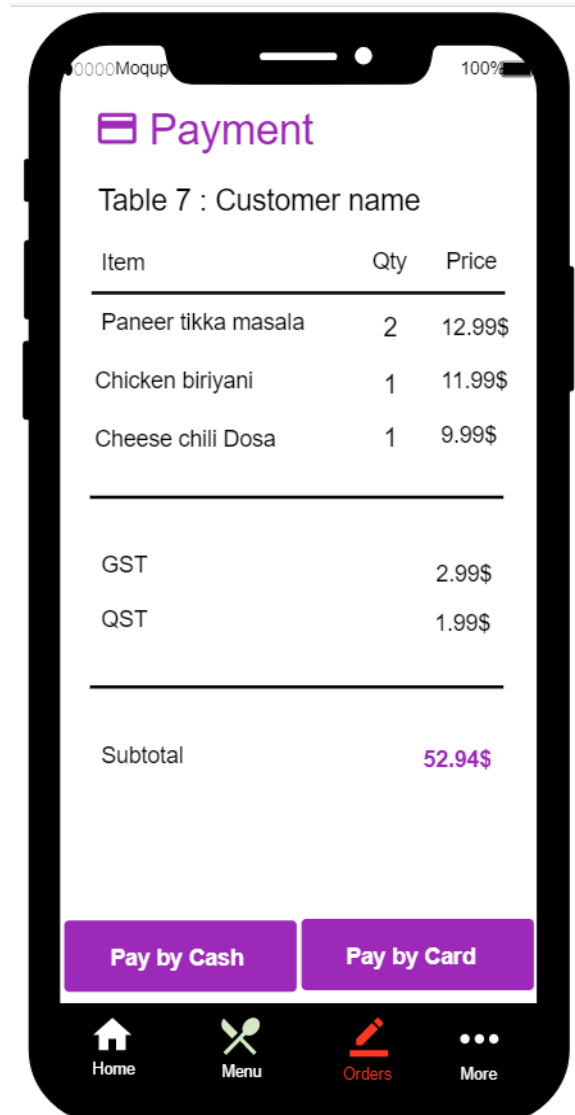
#### 8.1.6 Cart

Customer would able to see all the selected items & their quantity, and processed further for confirmation.



#### 8.1.9 Order History

Customer would able to see the history of their orders.



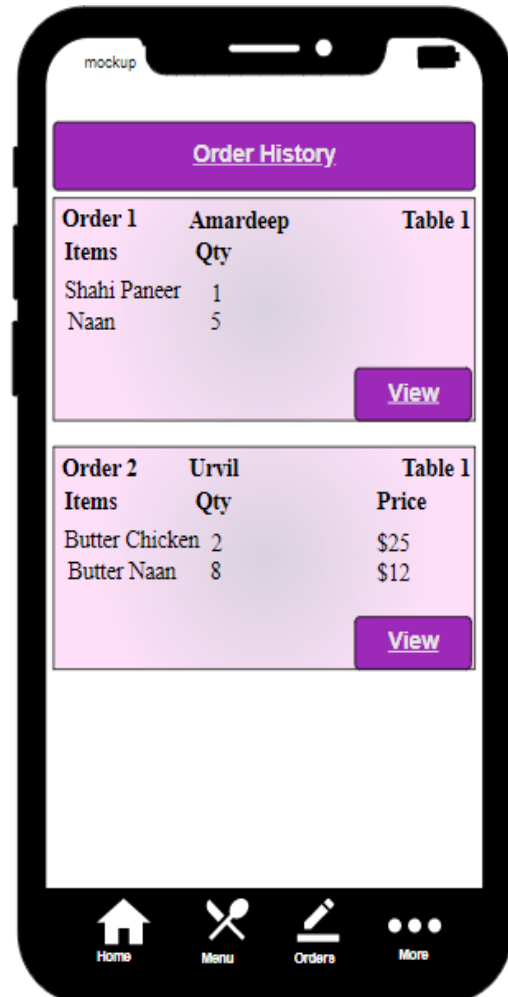
#### 8.1.8 Payment screen

Customer can select the payment option and

## 8.2) Manager Side



**8.2.1 Manager Dashboard**  
Manager gets the multiple option to perform their task from the application.

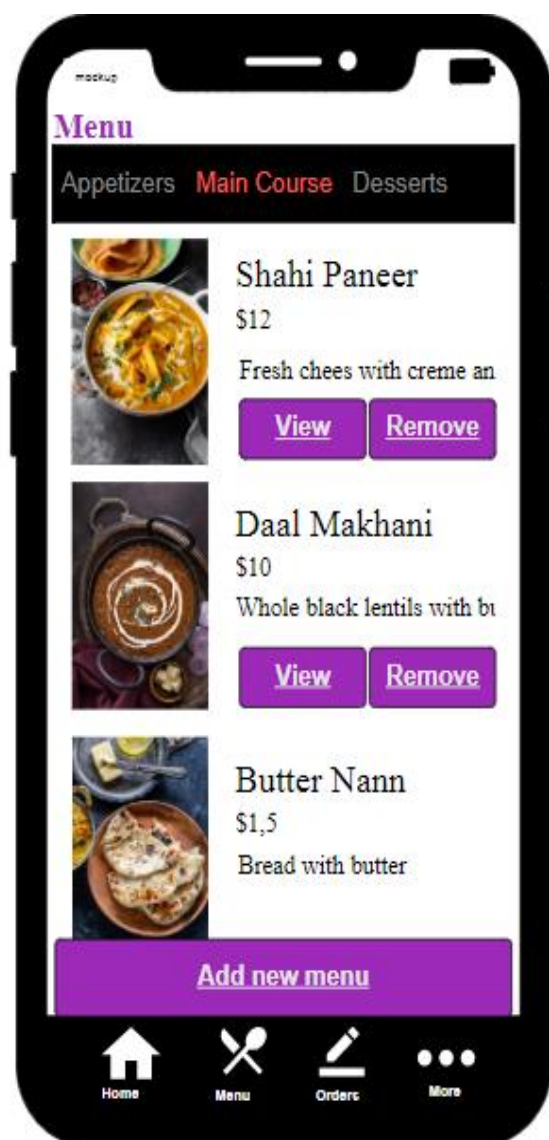


**8.2.2 Order history**  
Manager can see all the orders done by every customer in the restaurant.



#### 8.2.4 Table History

Manager can see the table booking history done by every customer.



#### 8.2.3 Menu items

Manager would able to see all the menu items and manipulate the menu by adding or removing item.

#### 8.2.6 Add employee

Manager would able to register a new employee for the restaurant into the system.

#### 8.2.5 Add Menu Item

Manager would able to add menu item into the system.



## RESTROMATION

