



MOBILE APPLICATION DEVELOPMENT  
Assignment 1

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## 1. Introduction

### 1.1 Purpose

This Software Requirements Specification (SRS) document provides a detailed description of the "QuickServe" mobile application. The purpose is to bridge the gap between customers looking for a seamless dining experience and restaurant managers aiming to digitize their operations.

### 1.2 Scope

The project scope includes a React Native mobile application allowing customers to:

- Browse digital menus and "Daily Specials."
- Book tables for specific time slots.
- Pre-order meals to minimize wait times.
- Allow Managers to update menu items and track reservations in real-time.

### 1.3 Definitions and Acronyms

- **SRS:** Software Requirements Specification.
- **MVP:** Minimum Viable Product (The simplest version of the app).
- **NoSQL:** A flexible database system (like Firebase or MongoDB).
- **UML:** Unified Modeling Language (Visual diagrams).

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## 2. Overall Description

### 2.1 User Roles

Role	Key Permissions & Goals
Customer	Browse menus, check availability, book tables, and pre-order food.
Manager	Update menu items, change daily specials, and manage incoming bookings.

## 2.2 User Stories

- **As a Customer:** "I want to see the daily specials and book a table for 7:00 PM so my food is ready when I arrive."
  - **As a Manager:** "I want to digitize my menu so I can spend less time taking orders over the phone."
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## 3. Functional Requirements

- **R1: User Authentication:** Users must be able to sign up and log in as either a Customer or a Manager.
  - **R2: Menu Display:** The app must display categories (Appetizers, Mains, Drinks) with prices and descriptions.
  - **R3: Table Reservation:** A calendar/time picker to select booking slots.
  - **R4: Pre-Ordering:** A shopping cart feature to add food items to a specific reservation.
  - **R5: Manager Dashboard:** A dedicated screen for managers to toggle item availability (In-stock/Out-of-stock).
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## 4. Non-Functional Requirements

- **Usability:** The UI should be intuitive enough for a first-time user to book a table in under 60 seconds.
  - **Reliability:** The app should reflect table availability in real-time to avoid double-booking.
  - **Performance:** High-resolution food images should be optimized to load quickly on mobile data.
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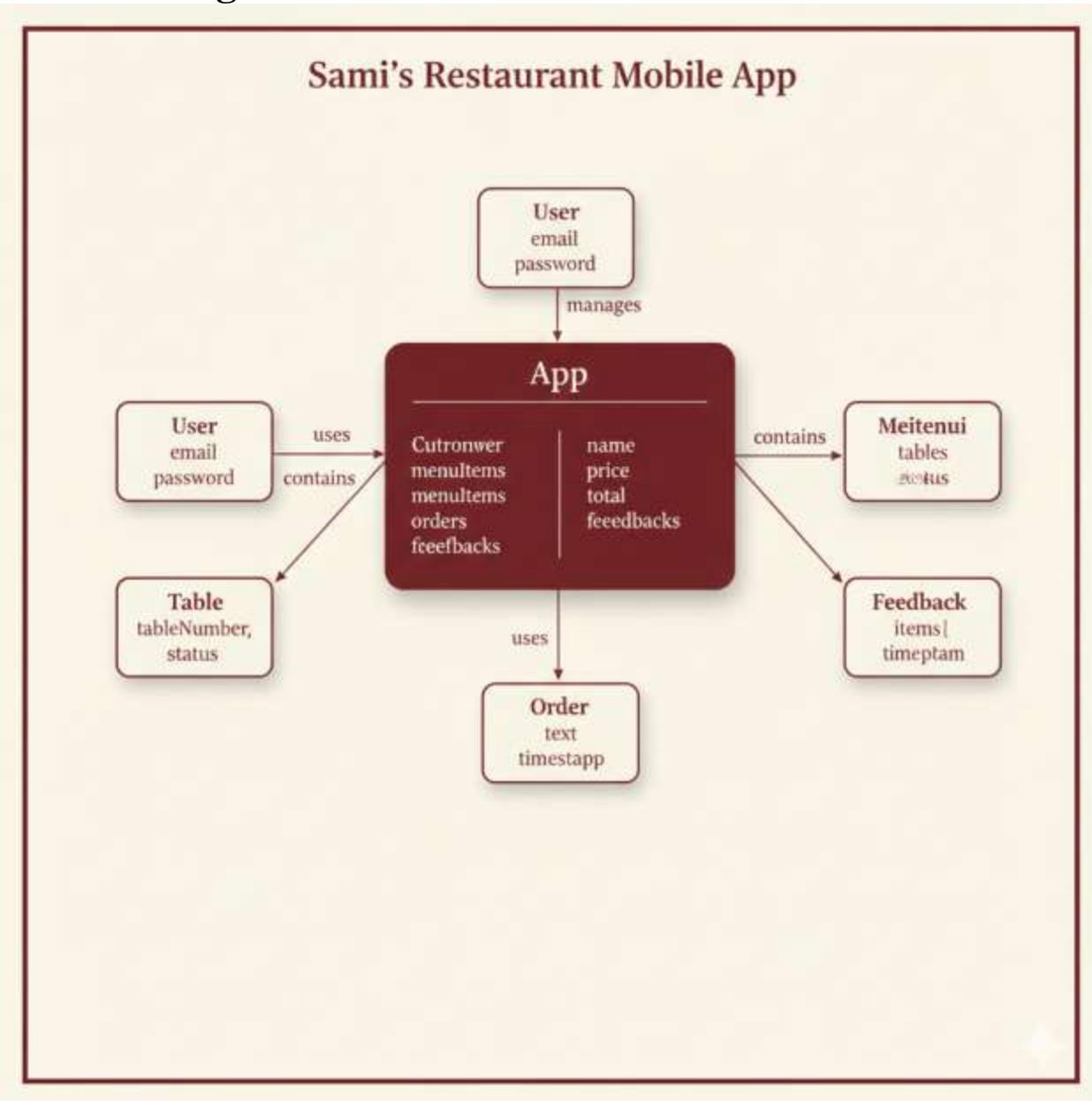
## 5. Database Schema (NoSQL)

Collection Name	Fields	Description
Users	uid, name, email, role	Stores user profiles and login credentials.

<b>Collection Name</b>	<b>Fields</b>	<b>Description</b>
<b>Menu_Items</b>	item_id, name, price, is_special	Details of all food and drink offerings.
<b>Reservations</b>	res_id, user_id, date_time, guests	Links a customer to a specific table and time.
<b>Orders</b>	order_id, res_id, items_list, total	Details of food pre-ordered for a reservation.

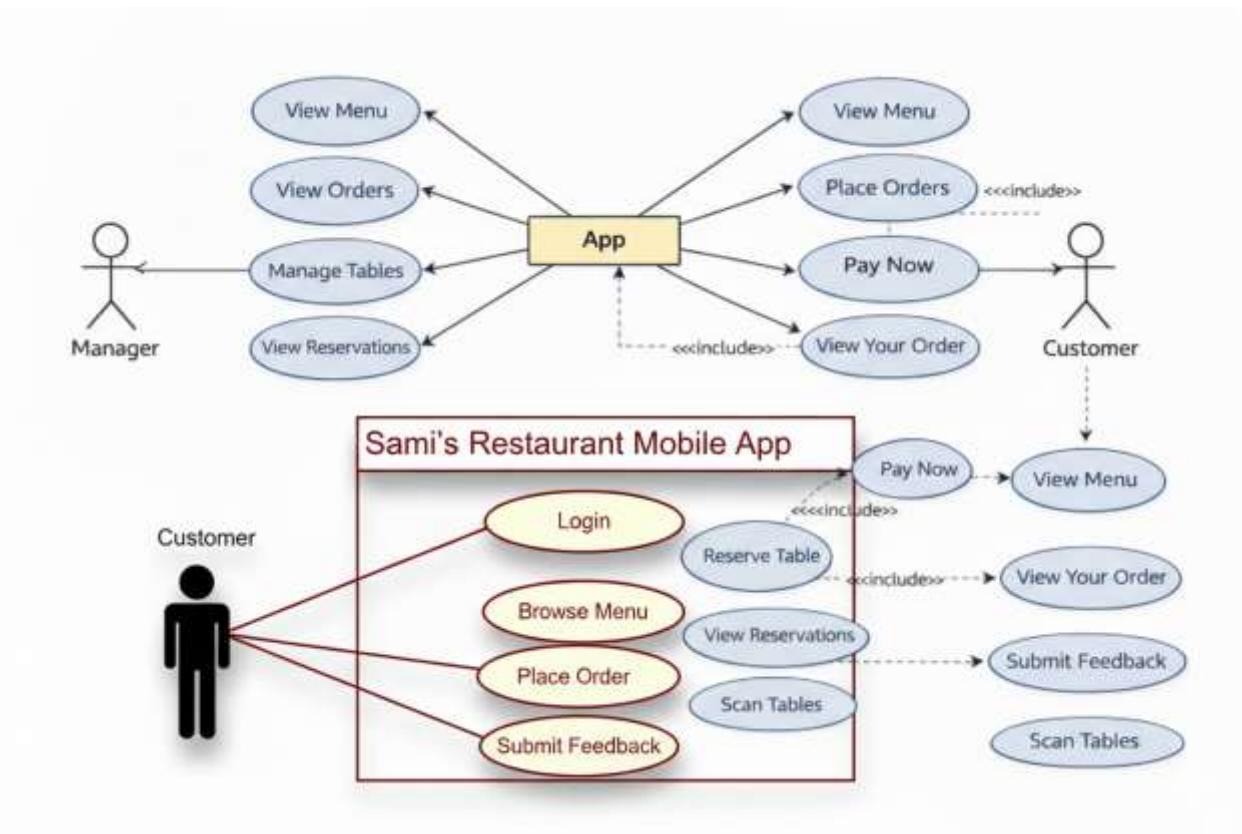
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## 6. UML Diagrams

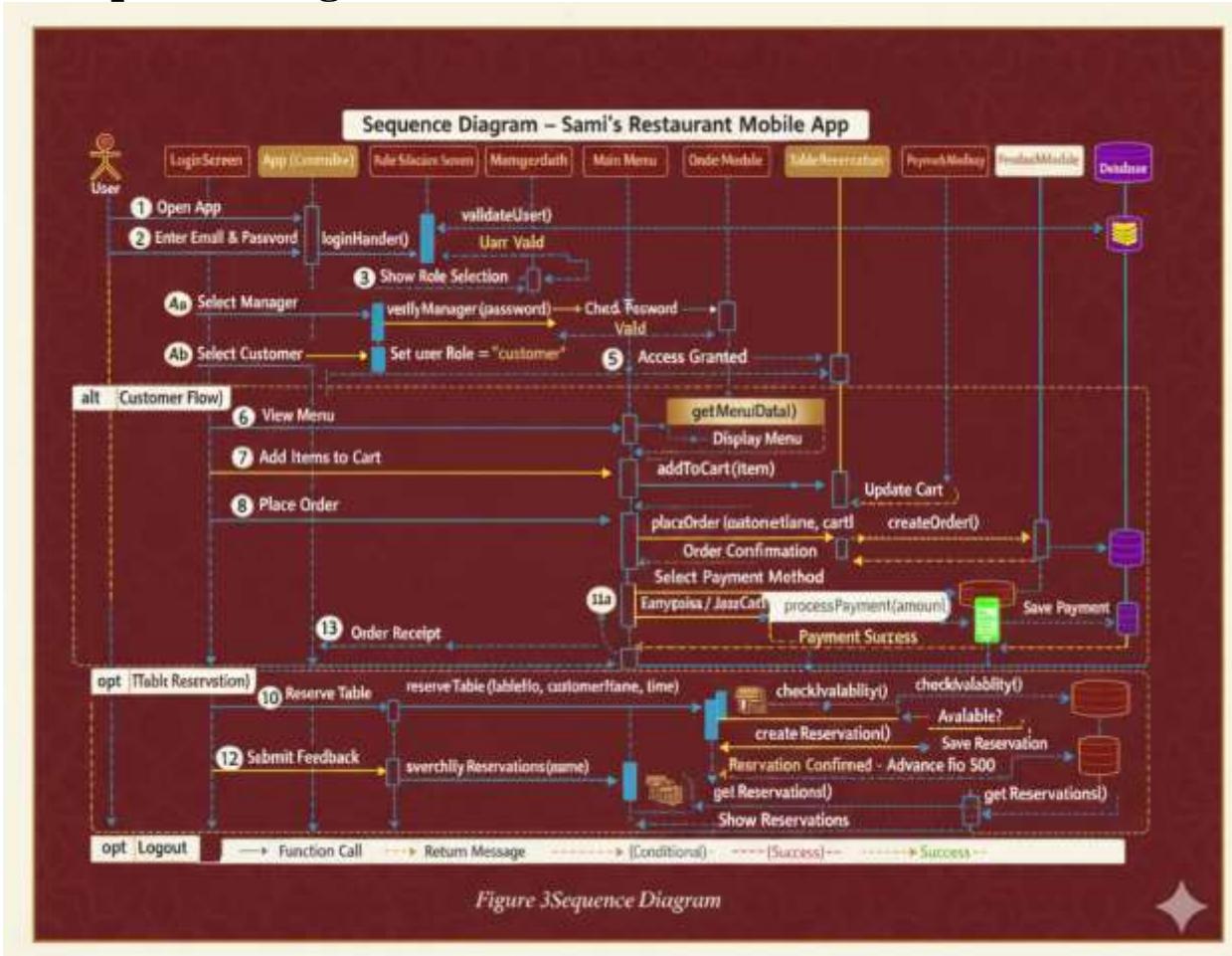


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## 7. Use case diagram



## 8. Sequence diagram



diagram

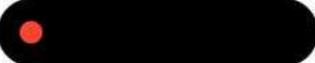
### 7.1 Login Screen

The Login Screen will feature:

- Two text input fields for Email and Password.
- A 'Login' button that validates credentials.
- A toggle to switch between "Customer" and "Manager" views.

9:24

◀ Camera



82

Login



**Sami's Resturent**

sami

Password

**Login**

9:24

◀ Camera

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>Login

Menu

### Margherita Pizza

\$12

Order

### Veg Burger

\$8

Order

### Pasta Alfredo

\$10

Order

Reserve Table

Scan Table QR

Feedback

9:24

◀ Camera



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Order

Payment



## Payment

Margherita Pizza

2 x \$12

**Total: \$24**

Select Payment Method

EasyPaisa

JazzCash

Cash on Delivery

Confirm Cash Order

9:24

◀ Camera



82

◀ Order

Payment



## Payment

Margherita Pizza  
2 x \$12

**Total: \$24**

Select Payment Method

EasyPaisa

JazzCash

Cash on Delivery



Scan with EasyPaisa App

9:24

◀ Camera



82

◀ Menu

TableScan



## Scan Table QR

QR Scanner Area

Scanned Table: 1

Available

Scan QR Code

Scan Again

9:24

◀ Camera



82

◀ Menu

Reservation



## Table Reservation

Select a Table:

T-1  
AVAILABLE

T-2  
OCCUPIED

T-3  
AVAILABLE

T-4  
AVAILABLE

T-5  
OCCUPIED

T-6  
AVAILABLE

T-7  
AVAILABLE

T-8  
AVAILABLE

T-9  
AVAILABLE

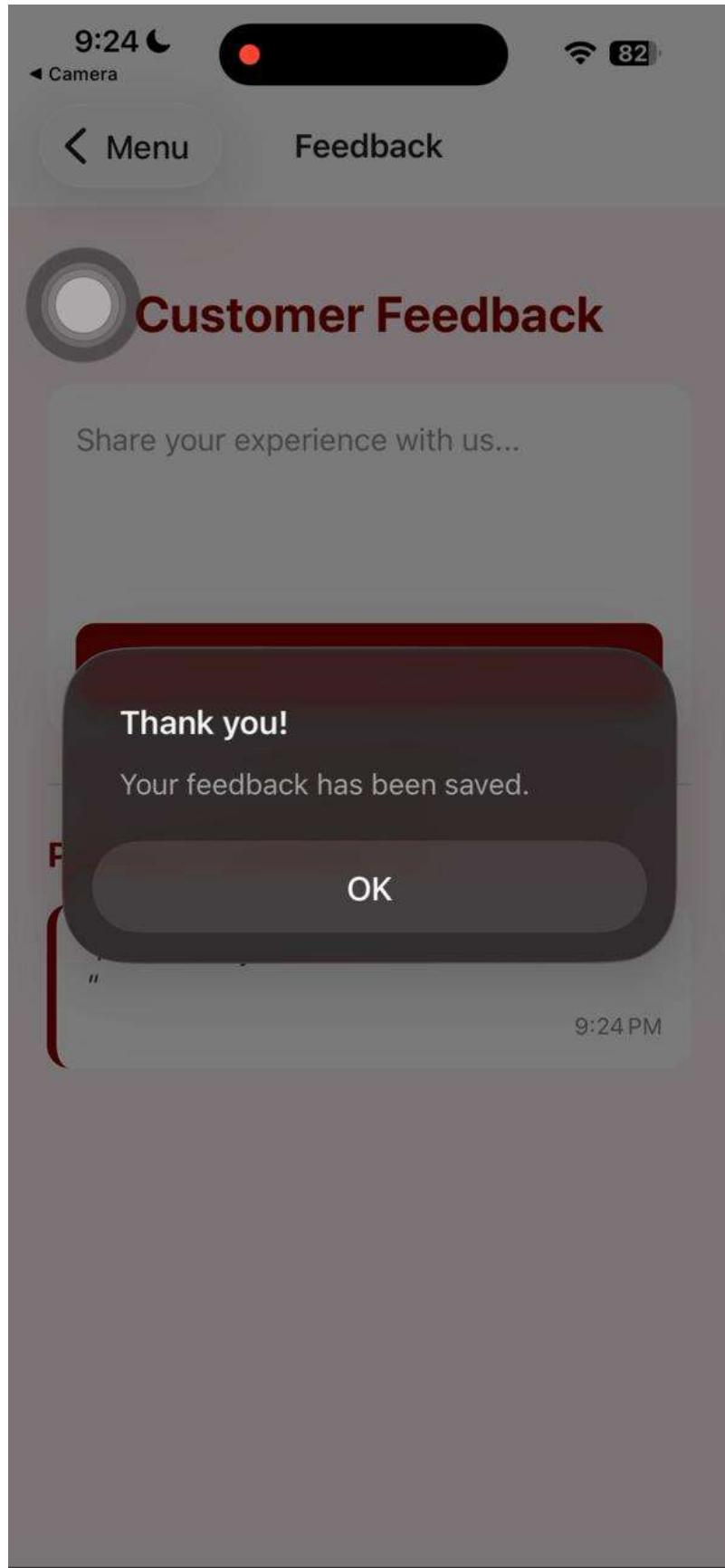
T-10  
AVAILABLE

Your Name

Enter name for reservation

You have selected: **Table 7**

**Confirm Booking**



9:24

◀ Camera



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◀ Menu

Feedback



## Customer Feedback

Share your experience with us...

Post Feedback

### Previous Feedbacks (1)

"Noice lishay  
"

9:24 PM

