



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

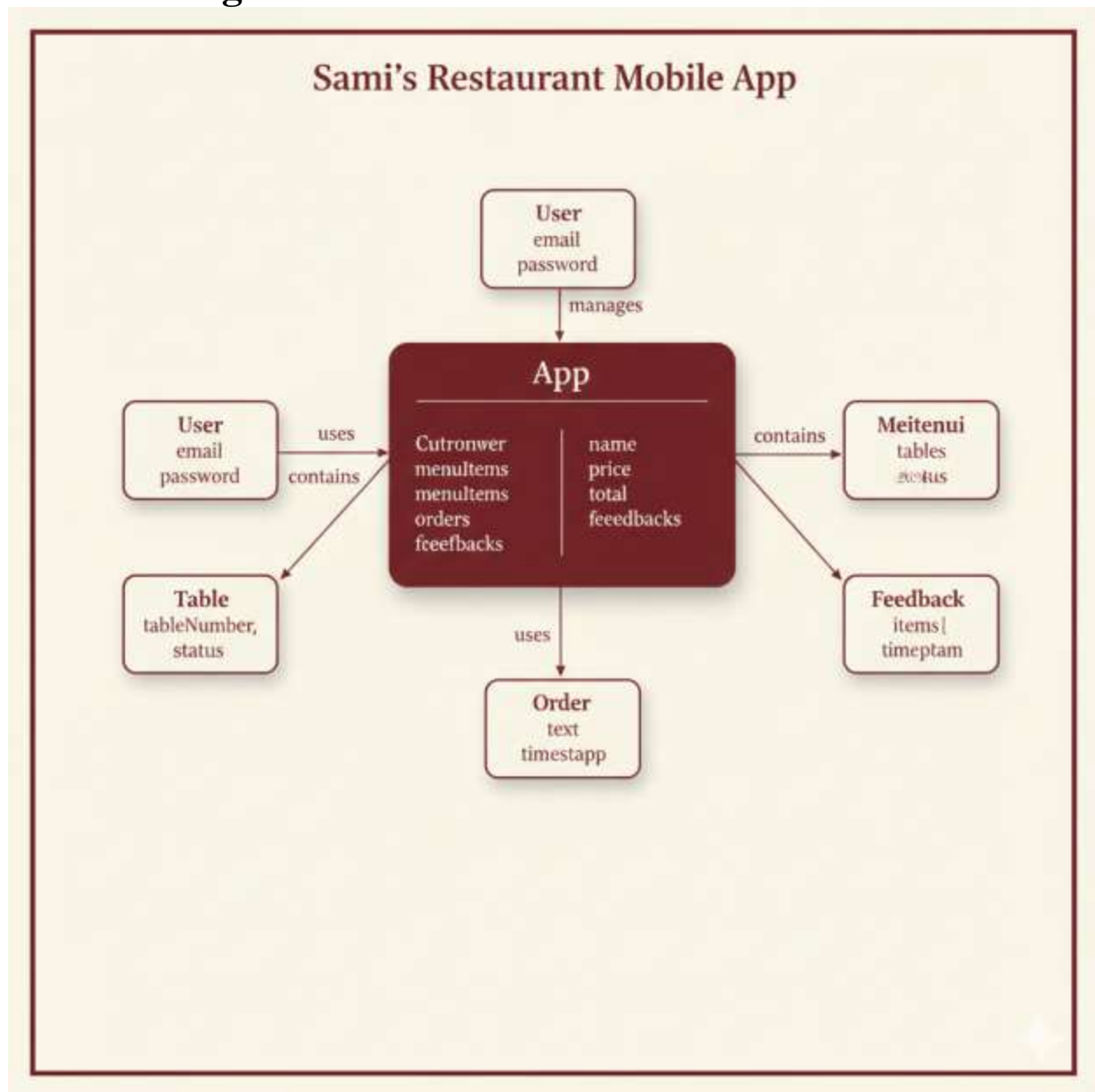
- **Usability:** The UI should be intuitive enough for a first-time user to book a table in under 60 seconds.
 - **Reliability:** The app should reflect table availability in real-time to avoid double-booking.
 - **Performance:** High-resolution food images should be optimized to load quickly on mobile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

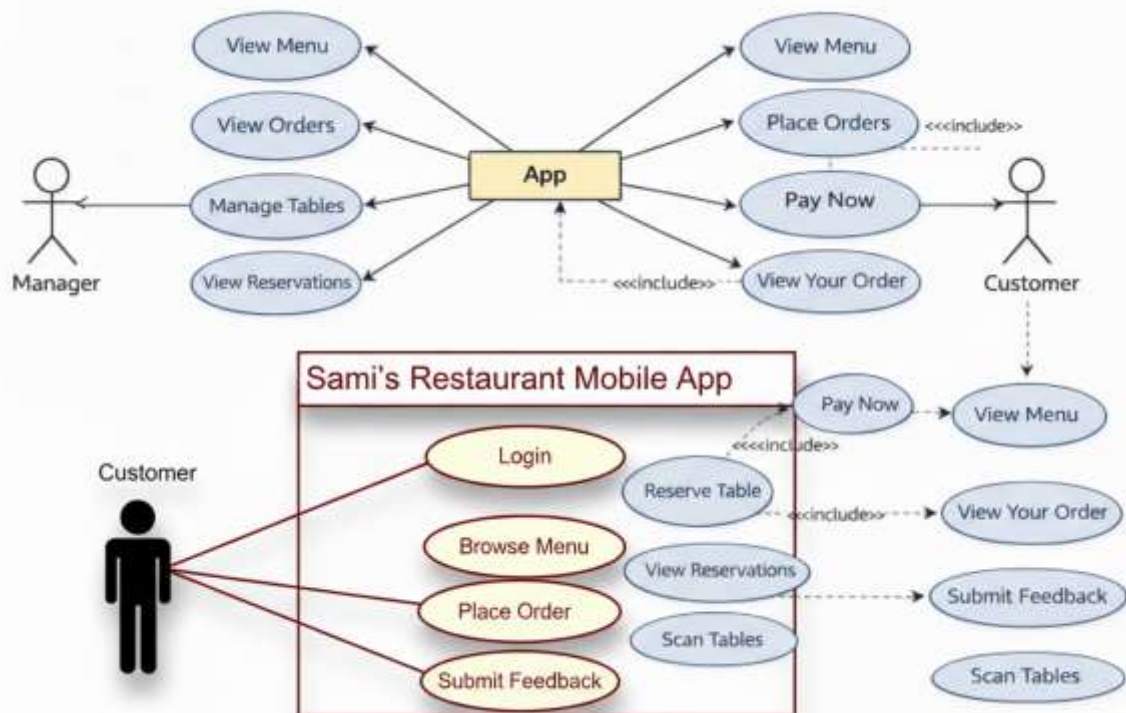
Collection Name	Fields	Description
Users	uid, name, email, role	Stores user profiles and login credentials.

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

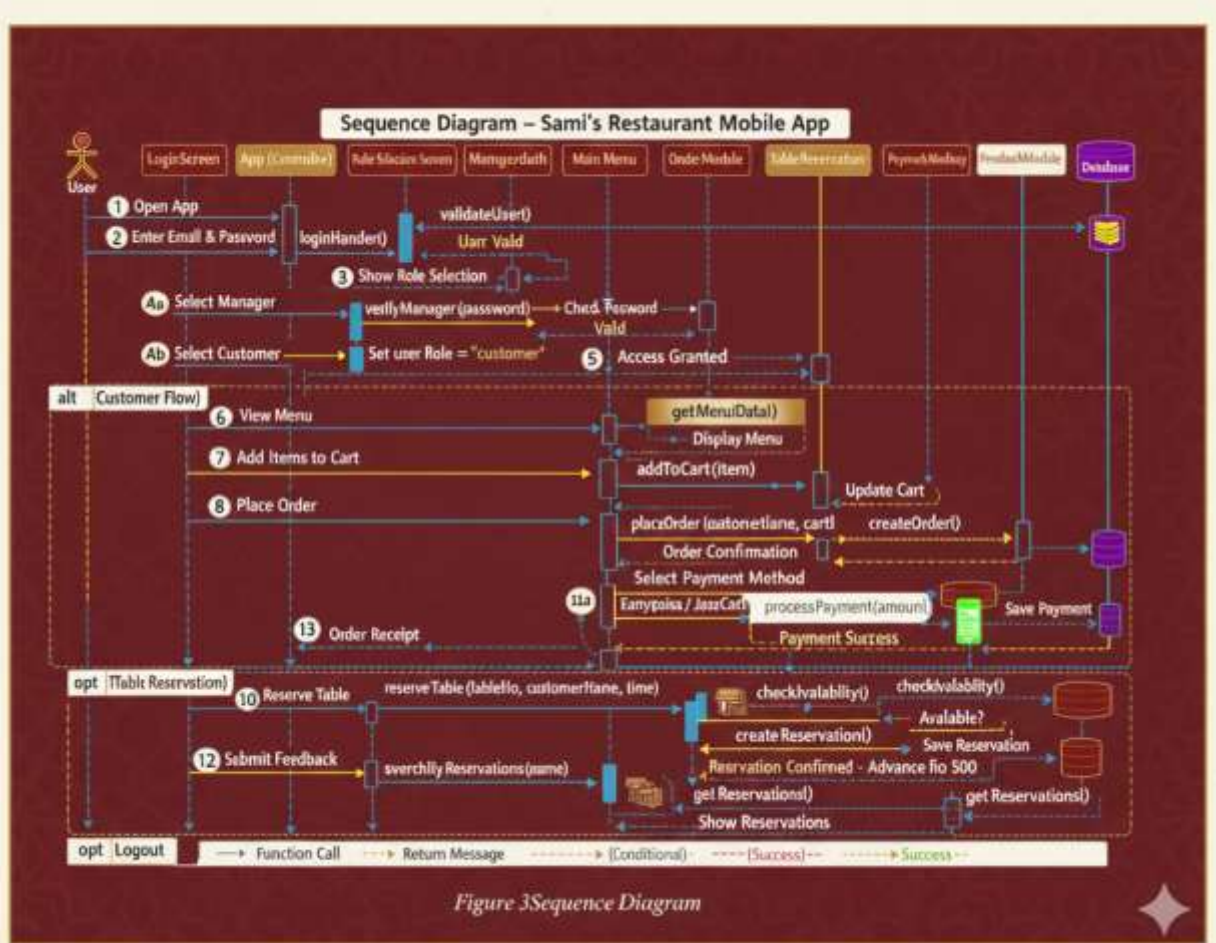
6. UML Diagrams



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



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Login



Sami's Resturent

Login

< Login

Menu



Margherita Pizza

\$12

Order

Veg Burger

\$8

Order

Pasta Alfredo


\$10

Order

Reserve Table

Scan Table QR

Feedback

 Order

Payment



Payment

Margherita Pizza
2 x \$12

Total: \$24

Select Payment Method

EasyPaiza

JazzCash

Cash on Delivery

Confirm Cash Order

< Order

Payment



Payment

Margherita Pizza
2 x \$12

Total: \$24

Select Payment Method

EasyPaisa

JazzCash

Cash on Delivery



Scan with EasyPaisa App

< Menu

TableScan



Scan Table QR

QR Scanner Area

Scanned Table: 1
Available

Scan QR Code

Scan Again

< Menu

Reservation



Table Reservation

Select a Table:

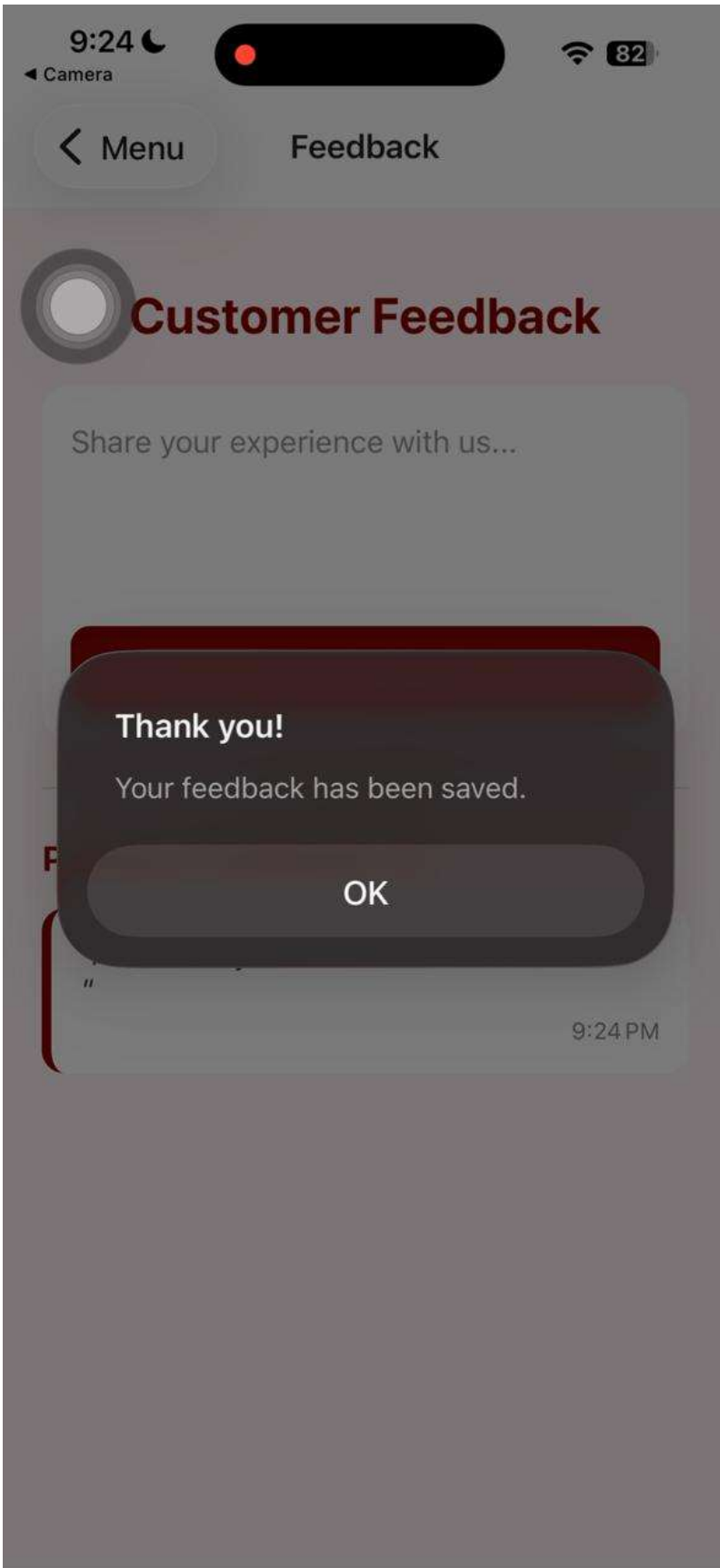
T-1 AVAILABLE	T-2 OCCUPIED	T-3 AVAILABLE
T-4 AVAILABLE	T-5 OCCUPIED	T-6 AVAILABLE
T-7 AVAILABLE	T-8 AVAILABLE	T-9 AVAILABLE
T-10 AVAILABLE		

Your Name

Enter name for reservation

You have selected: **Table 7**

Confirm Booking



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Feedback



Customer Feedback

Share your experience with us...

Post Feedback

Previous Feedbacks (1)

"Noice lishay
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