**Umpisa Technical Project**

Project Title: Restaurant Reservation System

As a developer, you are tasked with designing and implementing a sophisticated Restaurant Reservation System focused on customer needs.

**Customer Booking System**

As a Customer, I want to:

1. **\*\*Create a new reservation\*\***

I want to be able to make a reservation by providing my name, phone number, email, reservation date and time, and number of guests. The system should confirm my reservation and notify me through my preferred method of communication (i.e. SMS, Email).

2. **\*\*Cancel a reservation\*\***

If my plans change, I want to cancel my reservation using a reservation ID. I expect to receive a notification confirming the cancellation.

3. **\*\*View my reservations\*\***

I want to be able to view a list of all my upcoming reservations, so I can easily manage my bookings.

4. **\*\*Update my reservation\*\***

I should be able to update the time and number of guests in my reservation

**Notification System (Stretch Goals)**

As a Customer, I want to:

1. **\*\*Receive notifications about my reservation status\*\***

I want to be notified about my reservation status through different channels, such as email or SMS. The system should allow me to choose my preferred method of communication and deliver updates accordingly.

2. **\*\*Receive a reminder\*\***

I want to receive a reminder about my reservation 4 hours prior to my reserved timeslot via SMS and email.

**Technical Requirements**

1. Develop the project using Spring Boot

2. Use Java 17 or above

3. Use any build system you prefer (i.e. maven, gradle)

4. use your preferred embedded database (i.e. H2)

5. Make sure to follow proper object-oriented design

6. Make sure to follow Restful standards

7. Provide proper documentation

8. Unit tests are a plus

9. Please provide a document of the assumptions or design decisions that you made.

**Considerations**

1. No need to create a Front End User Experience.

2. Postman Collection for testing is a plus but not required.

3. No need to have an actual SMS or Email sending service. Just printing "Sent SMS" or "Sent EMAIl" on your service method is enough.