I. Introduction

I. The purpose of the document

This document illustrates the requirements of our project which is a console-based application for reserving a table in a restaurant. It also explains the functional requirements with use cases. This document is intended to direct the design and implementation of the target system in an object-oriented language.

II. The scope

In the scope of this project, users can book tables in a specific restaurant. Primarily, Users must create an account in order to view the availability in the restaurant. Based on the availability User shall either get a reservation or might ask to check alternatives or may not get a reservation.

III. Targeted audience

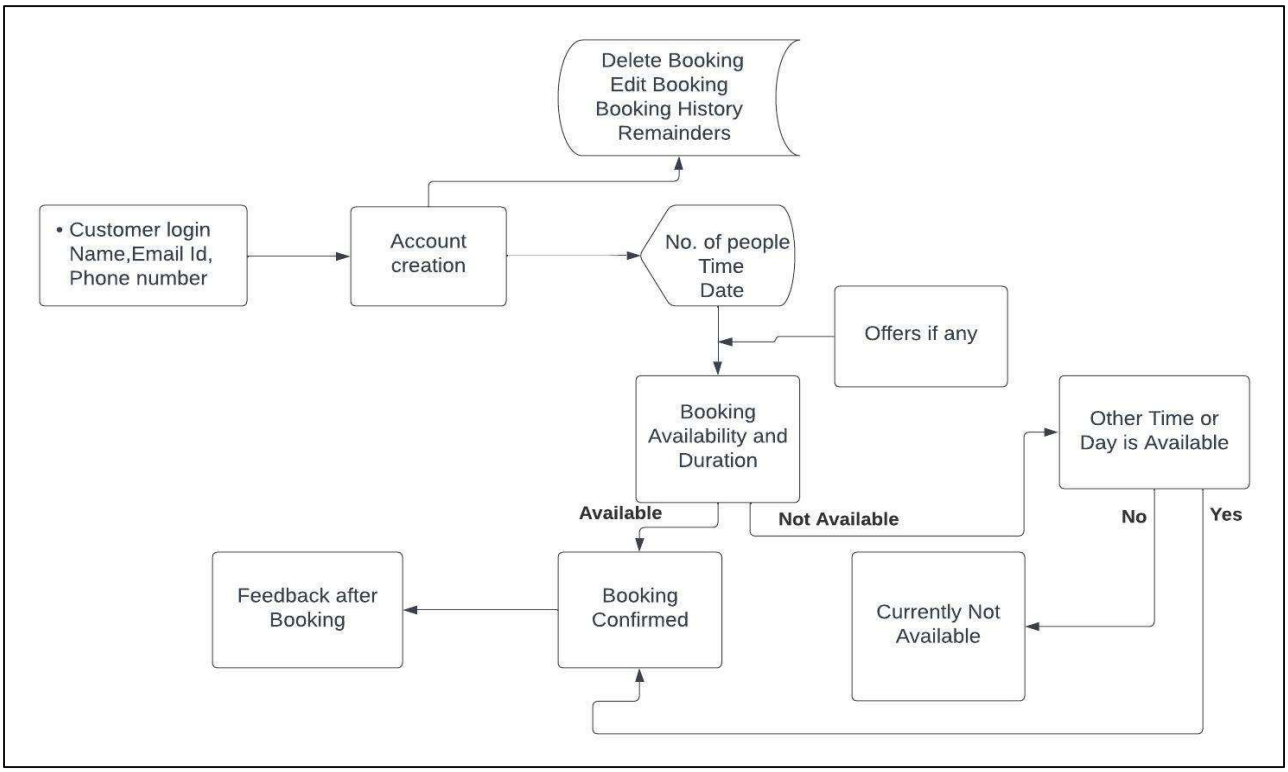
Users who would like to go to a restaurant are our primary users. It's going to save time. Having a confirmed table at a restaurant makes users feel more confident.

2. Functional Objectives

- User must register with full name, E-mail, and phone number hence an account will be created for the user.
- User asked for information like the number of people, time, and date for the reservation. With this our program search for the availability of seats.
- If seats are available booking gets confirmed. Therefore, it shows booking confirmation in the console.
- If there is no availability of seats it shows 'not available search for another date and time'.

3. The Context Model

I. Context Diagram



4. Use Case Model

Use Case Name:	Invalid time
Summary:	The Arrival time of the users should be within restaurant timings. The timings of the restaurant are 10 a.m. to 10 p.m.
Basic Flow:	The use case starts when a user enters any input outside the given time range, then he receives a notification on the console 'Please select timings between 10 a.m. and 10 p.m.'
Preconditions:	The user should create an account.
Postconditions:	The user needs to enter other timings within the given range.

Use Case Name:	Invalid number of people
Summary:	The minimum number of people per table should be at least one.
Basic Flow:	The use case starts when a user enters the number of people as less than 1, then he receives a notification on the console 'The minimum number of people per table should be at least one.'
Preconditions:	The user should select a date and arrival timings within the given range.
Postconditions:	The user has to enter a number that should not be less than 1.

Use Case Name:	Delete the booking
Summary:	The user can cancel/delete the booking that he created.
Basic Flow:	The use case starts when a user wants to delete/cancel the booking. He receives a notification on the console 'your booking has been canceled'
Preconditions:	The user should log in and select the option 'Cancel my booking'
Postconditions:	**********