



# **HACKATHON PHASE-I**

**COLLEGE CODE:9530** 

**COLLEGE NAME: ST.MOTHER THERESA ENGINEERING COLLEGE** 

**DEPARTMENT: COMPUTER SCIENCE ENGINEERING** 

STUDENT NM-ID:7E218C3BFA487AFB48C4D7838988A650

ROLL NO :953023104082

DATE :06/10/2005

**TECHNOLOGY: Front End/Node JS** 

PROJECT NAME : RESTAURANT TABLE BOOKING

**SUBMITTED BY: (Team members name, mention TL)** 

TL Name: Nithish kumar.R

Mobile No:801595811

**Team members:** 

1.navin.k[f6ec978c3ee75729d534ddc7f40e69c1]

Mobile No:9791413275

2.muthu Nagaraj.K[B71A418B6B70BC7BD1C42FE568E05544]

Mobile No:8838036512

3.parthiban.C[F8916AB947A382CB7194F395BD6B7947]

Mobile NO:8754731371

4.Muthu kumar.V[BEBFD5F37F974CCAE794C7A88EC1D1CD]

Mobile:8056847389

### **Project Overview & Objectives**

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Customers often face delays or uncertainty when visiting restaurants without knowing table availability. Restaurants, too, need a simple way to manage table reservations efficiently.

### **Objective:**

Develop a Restaurant Table Booking web application that allows users to:

View available tables in real-time.

Book a table for a specific date/time.

Receive confirmation instantly.

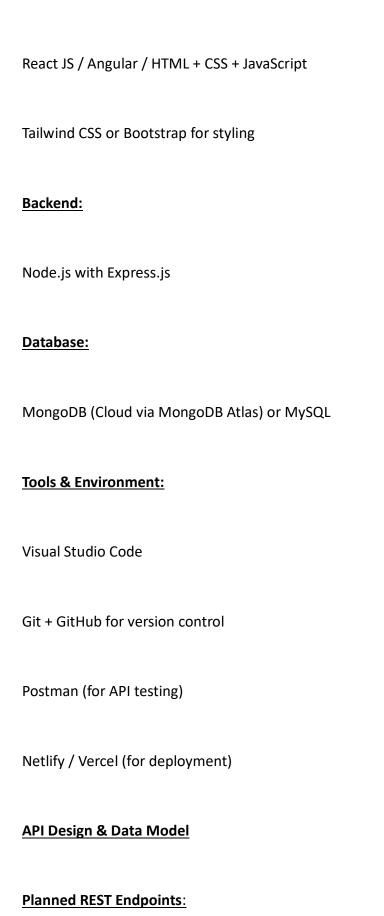
Allow restaurants to manage bookings and view daily reservations.

### **Expected Outcome:**

A responsive, user-friendly booking platform that reduces waiting time, improves restaurant efficiency, and enhances customer satisfaction.

### **Technology Stack & Environment Setup**

### **Frontend:**



```
Endpoint
Method
                           Description
POST /api/users/register
                           Register new user
POST /api/users/login
                           User login
      /api/tables
                    Get available tables
GET
POST /api/bookings Create new booking
      /api/bookings/:id
                           View booking details
GET
DELETE/api/bookings/:id
                           Cancel booking
Request/Response Format (Example):
POST /api/bookings
 "userId": "u123",
 "tableId": "t5",
 "date": "2025-10-10",
 "time": "19:00",
 "guests": 4
}
Response:
```

{

```
"message": "Table booked successfully",

"bookingId": "b678"
}
```

## **Database Schema (Example):**

```
Users: { userId, name, email, password }
```

Tables: { tableId, capacity, status }

Bookings: { bookingId, userId, tableId, date, time, guests, status }

## Front-End UI/UX Plan

Wireframes & Navigation Flow:

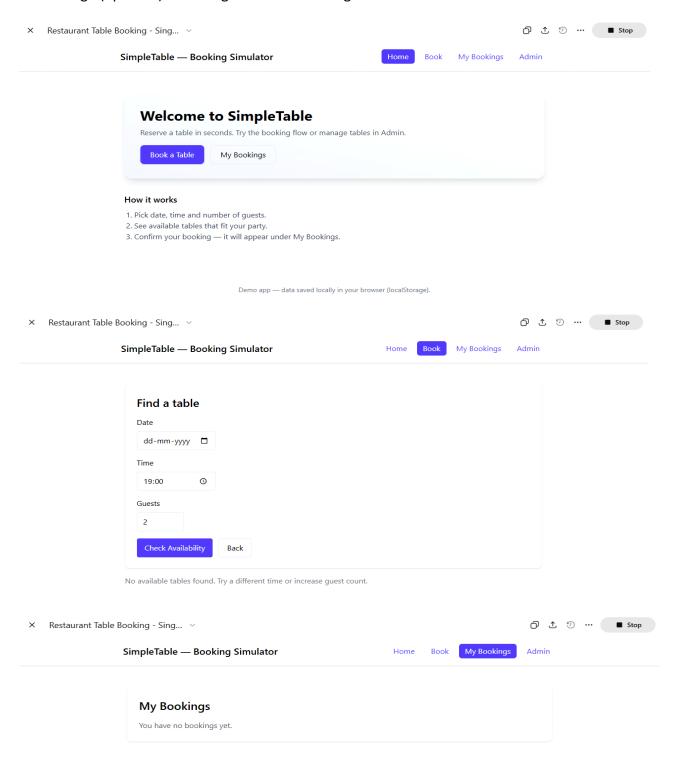
Home Page → Welcome + "Book a Table" CTA

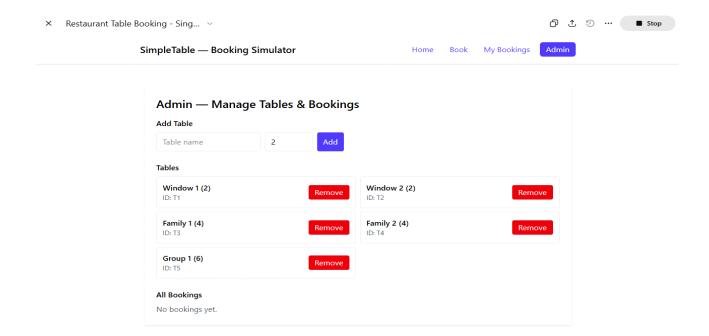
Booking Page → Date + Time + Guest Selection → Available Tables List

Confirmation Page → Booking Details + Success Message

My Bookings → User Dashboard to View or Cancel Bookings

## Admin Page (optional) → Manage Tables & Bookings





## **State Management Approach:**

Local state (using React Hooks / Context API).

API integration for real-time data.

Form validation before submission.

## **Development & Deployment Plan**

# **Team Roles:**

Frontend Developer (UI Design & API integration)

Backend Developer (API creation & database setup)

