# **Project Title: MakeMyThali - Online Thali Ordering Platform**

## **1. Introduction**

MakeMyThali is an online platform aimed at providing users with the convenience of ordering thalis, a traditional Indian meal served on a platter, with a variety of dishes. This project is being developed to provide users with an easy-to-use interface for customising their thali orders and placing them online.

## **2. Objective**

The main objective of MakeMyThali is to create a user-friendly platform that allows users to:

* Select from a list of dishes to customise their thali.
* View the selected dishes in their thali and adjust quantities.
* Place an order for the customised thali.

## **3. Features**

### **3.1 Thali Customization**

* Users can browse a list of available dishes and add them to their thali.
* Each dish will have options for selecting quantity and any additional preferences (e.g., spice level).

### **3.2 Order Placement**

* Users can review their customised thali before placing the order.
* The platform will provide a secure checkout process for payment.

### **3.3 User Accounts**

* Users can create accounts to save their preferences and order history.
* Registered users can view past orders and easily reorder their favourite thalis.

### **3.4 Admin Panel**

* An admin panel will be available for managing dishes, orders, and user accounts.
* Admins can add new dishes, update existing ones, and view order details.

## **4. Architecture**

The application will follow a client-server architecture.

### **4.1 Client-Side**

* The client-side will be developed using React.js for dynamic UI components.
* It will handle user interactions and interface design.

### **4.2 Server-Side**

* The server-side will be developed using Node.js with Express.js framework.
* It will handle authentication, data storage, retrieval, and manipulation.
* Data will be stored in a MongoDB database.

### **4.3 Communication**

* Client and server communication will be facilitated via RESTful APIs.

## **5. Technologies Used**

* Frontend: React.js, HTML5, CSS / Chakra UI
* Backend: Node.js, Express.js
* Database: MongoDB
* Authentication: JWT (JSON Web Tokens)
* Payment Gateway Integration: RazorPay
* Version Control: Git

Third-Party Services:

* Verification: Twilio (email & mobile no. verification)
* Google Maps API for fetching location
* Logistic Services Integration

## **6. Development Timeline**

### **Phase 1: Setup and Basic UI**

* Set up the project environment.
* Design and implement the basic user interface.

### **Phase 2: Backend Development**

* Implement server-side logic for dish management, user authentication, and order processing.
* Set up a MongoDB database for storing dishes, users, and orders.

### **Phase 3: Frontend Development**

* Develop dynamic UI components using React.js.
* Integrate frontend with backend APIs for thali customization and order placement.

### **Phase 4: Testing and Deployment**

* Test the application for functionality, usability, and security.
* Deploy the application on a hosting platform.

## **7. Conclusion**

MakeMyThali is a significant project aimed at providing users with a convenient way to order customised thalis online. By completing this project, I aim to gain valuable experience in full-stack development, including frontend design, backend logic, database management, and integration with third-party services.