Technical Planning Document

1. Project Overview

This project aims to build a responsive and dynamic web application using **Next.js** for the frontend and **Sanity CMS** for content and order management. The application will include pages for browsing the menu, managing orders, reservations, and user authentication.

2. Technical Requirements

Frontend:

- **Framework:** Next.js
- **Styling:** Tailwind CSS / Material UI
- **State Management:** React Context API / Redux (if needed)
- **Pages:**
    - Home
    - About Us
    - course
    - Contact Us
    - Sign In / Authentication

Backend:

- **CMS:** Sanity CMS (for managing menu items, orders, and reservations)
- **Authentication:** Firebase Auth / NextAuth.js (if required)
- **Database:** Sanity CMS will store structured data
- **API Integration:** Sanity API & any necessary third-party APIs

3. Deployment Strategy

- **Hosting:** Vercel (for seamless Next.js deployment)
- **Database & CMS:** Sanity (headless CMS)
- **Domain:** Integrated with lms-omega-murex.vercel.app

4. Development Workflow

1. **Setup Repository** (GitHub/GitLab)
2. **Create Next.js App** with required dependencies
3. **Sanity CMS Setup** (define schemas for menu, orders, reservations)
4. **Develop UI Components**
5. **API Integration** (fetch data from Sanity CMS)
6. **Authentication & Authorization**
7. **Testing & Debugging**
8. **Deployment on Vercel**
9. **Post-launch Monitoring & Improvements**

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5. Testing & QA

- **Unit Testing:** Jest / React Testing Library
- **Integration Testing:** Cypress / Playwright
- **Performance Testing:** Lighthouse & Web Vitals