Catering App - Tech Requirements Document

Tech Stack

MERN (MongoDB, Express, React, Node.js).

1. Authentication & Caterer Access Control

- Landing page should have a Two-Step Authorization.
- Step 1: Caterer enters a unique encryption key.
- Step 2: If verified, redirect to that caterer's admin panel.
- Each caterer accesses their own dashboard/database.

2. Caterer Menu Management (Admin Panel)

- Add/Edit/Delete menu items with name, category, type, image, price.
- Set miscellaneous fixed charges (cutlery, decor).
- Real-time updates linked to front-end.

3. Customer Front-End Interface

- Input guest count, select items (Starters, Main, Breads, Drinks, Desserts).
- Item selection with images and checkboxes.
- Dynamic per-plate and total pricing.
- Option to edit selections and finalize quote.

4. Real-Time Pricing Logic

- Pricing = (Item Prices x Guest Count) + Miscellaneous - Discount.
- Discount tiers:
  * 0-1000 guests: 0%
  * 1001-1500 guests: 2%
  * 1501-2000 guests: 3%
  * >2000 guests: 5%

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5. Multi-Tenant Web App Architecture (Preferred)

- One backend and one front-end shared.
- Caterers log in to access their unique data.
- Routes like /app/caterer123 to load specific content.
- Easier to manage, scalable, and secure.

6. Subscription Model Setup (Optional/Future)

- Role-based access for free and subscribed caterers.
- Track caterer ID, subscription status.
- Optionally integrate payment gateway (Stripe, Razorpay).

Summary - Feature Checklist

[x] Caterer Login via Key

[x] Separate Menu DB per Caterer

[x] Menu Management Interface

[x] Customer Front-End UI

[x] Real-Time Pricing Engine

[x] Discount Based on Guest Count

[x] Multi-Tenant App Setup

[x] Subscription Access Control (Future)