Project Proposal: Hayan Bakery Website

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Introduction

Hayan Bakery operates as a neighborhood bakery which creates Korean-inspired breads and pastries while serving fresh sourdough loaves and brioche and financiers and other specialty baked items.

The project requires developing a contemporary single-page application (SPA) which functions as both a promotional tool and ordering system for customers to explore products and place advance orders through various devices.

Goals and Objectives

Primary Goal: Create a responsive, secure, and user-friendly web application for Hayan Bakery.

Objectives:

- Enable customers to browse and order bakery products seamlessly.
- Provide signup/login functionality for personalized experiences.
- Enhance customer trust with secure authentication and SSL.
- Streamline operations by managing data (orders, customers) via a full-stack solution.
- Deliver a modern PWA experience with offline access and push notifications.

Target Audience

Primary Users: Local community members and food enthusiasts.

Demographics:

- Age: 20–45
- Gender: All
- Occupation: Students, working professionals, families
- Location: Southern California (Irvine, Brea, Laguna Hills, and nearby areas)
- Income Level: Middle-to-high income households who value artisan food products.

Key Features

- User authentication (signup, login, logout).
- Profile management with session & cookies.
- Interactive product catalog with search and filters.
- Order form with validation (real-time feedback on inputs).
- Responsive design for desktop, tablet, and mobile.
- Progressive Web App (PWA) with offline access and push notifications.
- Secure (SSL) end-to-end connections.
- Admin view to add/update product listings.

Technology Requirements

- Front-End: ReactJS, Bootstrap 5, SASS/LESS, CSS3
- Back-End: Node.js, Express.js
- Database: MongoDB with Mongoose
- Security: SSL, Authentication/Authorization, Session & Cookies
- Other: JSON/AJAX for data handling, GitHub for version control, live deployment on a secure server, PWA features