PROPOSAL

Project Title: *Fast-Food*

Course Title: Software Construction & Development

Department: Computing (*Software Engineering*)

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Introduction

The fast-food industry increasingly relies on technology to provide quick, reliable, and user-friendly services to customers. However, traditional manual order-taking, inefficient rider tracking, and limited customer communication create bottlenecks in service delivery.

The proposed *Fast-Food System* focuses on the digital renewal of restaurant operations, enabling customers to place orders, track deliveries, and communicate seamlessly with staff. Core features include **real-time order tracking, automated order management, rider location updates, in-app chat, employee management, and secure payment processing**.

This project aims to eliminate inefficiencies in location tracking, order dispatch, and customer interaction, while ensuring accuracy, speed, and transparency. By integrating automation and centralized management, the system will improve customer experience, streamline staff responsibilities, and boost overall operational efficiency.

Ultimately, the system envisions a **modernized food delivery ecosystem** that enhances service quality, reduces delays, and provides a scalable digital solution adaptable to multiple restaurant branches.

Stakeholders

Stakeholder	Role in the System
Customer	Browses menu, places orders, tracks delivery, gives feedback.
Delivery Rider	Receives delivery requests, updates live location, delivers food.
Branch Manager	Staff roles, order processing, and inventory.
Restaurant Staff	Handles food preparation, packaging, and dispatching orders.
System Administrator	Maintains technical performance, database, and manages user access/security.
Help Center Staff	Provides customer support through live chat, calls, and issue resolution.

Functional Requirement

FR No.	Requirement
FR-01	The system shall allow customers to sign up and log in using phone number verification.
FR-02	The system shall allow users to browse food menus and add items to the cart.
FR-03	The system shall allow customers to confirm, cancel, or request refunds for orders.
FR-04	The system shall allow users to generate and track orders in real time.
FR-05	The system shall enable customers to add or update delivery addresses manually or via GPS.
FR-06	The system shall provide real-time rider tracking and delivery status updates.
FR-07	The system shall support in-app communication through chat, calls, and location sharing.
FR-08	The system shall allow managers to manage staff attendance, roles, and performance.

FR-09	The system shall provide branch-specific performance dashboards for managers.
FR-10	The system shall support secure payments via credit card or cash on delivery.
FR-11	The system shall allow users to rate food, delivery, and service after order completion.
FR-12	The system shall ensure secure login through two-step verification.
FR-13	The system shall maintain logs of customer complaints and feedback for future improvements.
FR-14	The system shall allow administrators to monitor and control data access for different roles.