

Bill Bot: Skip the Line, Scan to Dine

Seeking parties interested in licensing and commercialization of technology.

Technology Brief

The architecture comprises a Mobile/Web Application enabling users to register, browse food items, check availability, place orders, and make secure digital payments through a Payment Gateway, while receiving real-time stock updates. A QR Code Generator produces validity-based QR codes for each order category (such as tiffin, chat, and juice), which are scanned at the BillBot Machine — a standalone hardware unit equipped with a QR code scanner and thermal printer that generates physical bills. The Admin Dashboard allows canteen staff to monitor orders, track inventory, receive refill alerts, and manage order prioritization for efficient food preparation. The system workflow automates the complete process: once a user places an order and completes payment, a QR code with a defined validity period is generated; users receive pre-expiry and expiry notifications, and upon scanning the QR code at the BillBot, a physical bill is printed to authorize food collection, preventing misuse.

Block Diagram



Salient Features

This solution eliminates the need for manual cashiers, prevents queues, reduces service delays, enhances user convenience with remote ordering, ensures secure and auditable operations, and enables proactive stock management through real-time monitoring and automated refill alerts — making it a reliable, scalable, and fraud-resistant food service management system.

Technical Applications

- ✔ Automated Cafeteria & Food Court POS
- ✔ Adaptable Configuration
- ✔ Real-Time Inventory & Kitchen Order Management System

Glimpse of the Technology



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TECHNOLOGY SECTOR

Enterprise Applications



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TECHNOLOGY READINESS LEVEL

TRL 8

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