



MATERIAL TRACKING SYSTEM

e-POS Solution for sweets industry



Business Challenge

Similar to any other huge fast food supply chain retailer, the client relies on strong performance during festive and holiday seasons, to boost up their annual sales. As customer walk in increases, they faced difficulty in maintaining the order processing and billing. They tried few software, but they could not get a complete solution. The software with super speed capabilities needs to be standalone machine or the other with an integration model (linking up all outlets with internet, syncing up data) lacks speed.

What all they needed is a software that can provide an integrated solution connecting all outlets, with high speed and a very robust performance to deal with peak hours of the business with no internet dependency(for billing). And should also be flexible and easy to manage end to end production lifecycle and material movement tracking.



Solution for key study

MTS(Material Tracking System) emerged for solving the client business challenge. MTS mainly focused on simplifying the billing screen that even a new user can easily generate a bill without any prior training. System supports the single counter and split counter billing systems that will distribute the load at the counter and easy flow of the customers. Individual light weight but robust counter installations, runs independent of the internet and will sync up data to the server once the intranet/internet connection is available. MTS is designed from the core problem/requirement rather than from the existing client process, this made the production management, KOT and billing process much more simpler.

MTS implementation could make a difference to the client

150% increase in sales.

200% decrease in customer wait time

225% increase in outlet welkins.



Application Description

MTS is a powerful web application that provides solution for retailers to track and analyze data right from purchase till sale. Its major activities deal with

- Outlet billing with touch screen/keyboard support
- Kitchen Order Ticket management
- Kitchen production and wastage
- Finished product dispatch and wastage
- Warehouse and stores item stock management
- Purchase orders, GRNs and vendor payment management.
- Analytical reports for all modules for business enhancement.

MTS comes in various packages that can be served as

- Simple standalone billing system
- Multi storied billing system
- Chain of outlets billing system[Online and Offline model]
- Outlet cum Warehouse management, an End to End Retails Food
- and Beverage management system

Business Advantage

Operator/User Benefits:

- It is seamlessly scalable, error free, easy to use and implement.
- It has a user-friendly interface.
- Users with little computer knowledge can use this software very easily.
- Super fast billing experience that supports both touch screen and keyboard.

Management Benefits:

- Flexible for single to multi counters billing systems, that decreases customer wait time and increases the walk in rate.
- It is not only a cost saving measure but also adapts to changes very quickly.
- Purchase to sales end to end management made easy and multiple reports for analyzing purchase, production, sale, wastage.
- Multiple user roles with two level hierarchy admin and user for each department.
- Connecting billing, kitchen production, dispatch and warehouse reducing paper work and tele-communication.



Technologies used

Presentation Layer:

- HTML 5, JSP, Javascript, Ajax, JQuery with lightweight images.

Business Logic Layer:

- Struts
- Spring Bean management
- IBATIS for persistence layer
- Tiles Screens Layout Framework
- Quartz for scheduled jobs

Database Layer:

- MySQL

Application/web servers:


- Apache Tomcat

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