

Nofrills

End-to-End Point of Sales
Inventory Management Solution

Shi Ying Li
Mark-Eric Casaje
Chikara Roberts
Johnathan Hok

SmartTrack

Nofrills Franchise

- Nofrills shopping experience
- One concept store in 1978 to over 150 across Canada



Paolo's Nofrills

Located in
Downtown Toronto



SmartTrack

\$450,000

Worth of Inventory



SmartTrack

\$250,000

Sales a week



SmartTrack

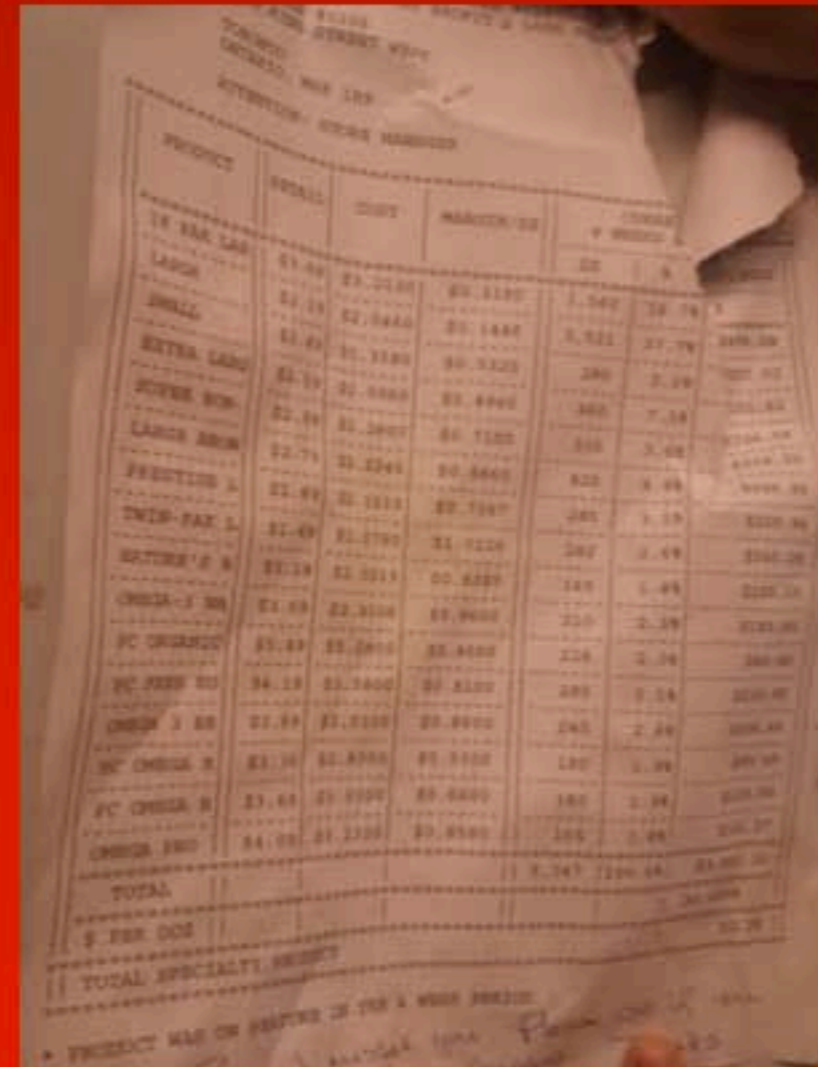
35,000

Items moved a day

SmartTrack

The Problem

- Broken up inventory system
- Outsource inventory counting
- Excel spreadsheets
- Paper printouts
- Not flexible, no real-time data



The image shows a printed spreadsheet with the following columns: PRODUCT, PRICE, QUANTITY, and TOTAL. The data is as follows:

PRODUCT	PRICE	QUANTITY	TOTAL
18 BAR LAG	\$1.99	20,000	\$39,800
LAGR	\$2.19	20,000	\$43,800
SMALL	\$2.29	20,000	\$45,800
EXTRA LARG	\$2.39	20,000	\$47,800
STYER 800	\$2.49	20,000	\$49,800
LARGE 800	\$2.79	20,000	\$55,800
FRETTING L	\$2.89	20,000	\$57,800
TRIP-PAY L	\$2.99	20,000	\$59,800
WATER 1/2 N	\$2.19	20,000	\$43,800
OMEGA-1 3/4	\$2.89	20,000	\$57,800
PC OMEGA	\$2.89	20,000	\$57,800
PC 800 1/2	\$4.19	20,000	\$83,800
OMEGA 1 1/2	\$2.89	20,000	\$57,800
PC OMEGA 1/2	\$2.89	20,000	\$57,800
OMEGA 1 1/2	\$4.19	20,000	\$83,800
TOTAL			\$1,247,120.00

Let's talk about

Functional requirements

Inventory Receiver



SmartTrack

Cashier



SmartTrack

Manager



SmartTrack

What about our
**Non-Functional
Requirements**

Processing Power

Graceful error handling

Security

SmartTrack

User Experience

Scalable Extensibility

SmartTrack's Solution

SmartTrack

Hardware Platform

- 1 x Dell PowerEdge Application Server
- 1 x Dell PowerEdge Database Server
- 5 x IBM SurePOS 300 Series
- 5 x Metrologic In-Counter Scanner
- 1 x POS-X Wireless Barcode Scanner
- 1 x Cisco Catalyst Port Switch



SmartTrack

Software Stack

- IBM WebSphere Application Server
- IBM DB2 Express
- Fedora Linux Server OS
- Custom Java MVC Based Inventory Software



SmartTrack

Break-even analysis

Break-Even Analysis

Cost	Benefits
Hardware	Labour efficiency
Software	Increased sales
Maintenance	Paperwork savings
Operational labour	

Break-Even Analysis

— NPV of all Benefits — NPV of all Costs



The End.