Joe's Yard

Case study





Joe's Yard

• Joe's builders' suppliers has

a shop

and

a yard.





Joe's Sales technique

- His system is entirely manual. He has a typed stock list on the wall of his shop, complete with prices.
- When a builder wants to buy supplies, he goes into the shop and picks the stock items from the list.

STOCK_CODE	STOCK_DESCRIPTION	PRICE	
BRK11	Brick - red, 30x100	\$2.50	
A101	Cavity blocks(100)	\$200.00	
A111	Red bricks(100)	\$200.00	
B101	2"x4" lengths	\$9.50	
B111	Window Frames 2'x4'	\$45.00	
C101	6" Nails(50)	\$5.95	
C121	6" Nails(100)	\$9.95	
D101	Workbench	\$250.00	
D131	cordless Drill	\$200.00	
E101	Cavity blocks(500)	\$1,000.00	
E141	Cavity blocks(200)	\$400.00	
A642	4"x4" treated timber	\$9.50	
J555	Box of 6" screws	\$5.00	
J501	Phillips screwdriver	\$8.00	
S404	Aluminium Shelving	\$56.49	
S405	Aluminium Cupboard	\$99.99	
	Chain Bicycle Lock	\$25.00	
3655 L	J-lock bicycle Lock	\$19.99	

Joe's Sales technique

• The builder writes his order on a duplicate docket and pays Joe.

Quentity	Description RST9'	Unit Price		Total
,	RHT9"			LOTAL
,	120 9"		(2096)	Price
2		#65.0	£13.50.	#7130
-	Box of 6" phillips			
	fGTB WF (100)	£5.00	#1.00	#12.00
1	Hilli Mail Gun	480.00		
2	" Plat Naik			#96,00
		200	#1.00	£12.00
			ood Doe:	£591.00
			eman	
֡	igneture <u>A</u> Staff Mama	Hilfi Nail Grin W Flat Naik Ensture Mick Murphy (Staff Staff Rame Wick Murphy Staff	Hilli Nail Gram #80.00 I'' Flat Nails #2.00 I otal Amore #80.00 Ensture Mick Murphy (Staff)	Hilli Mail Gram #80,00 #16,00 10,00 10,00 10,00 10,000

Taking payment

• Joe, or one of his sales staff, stamps the docket as paid.



Getting the goods!

- •The builder takes the duplicate docket and he goes to the yard and hands it to the yard foreman.
 - Sometimes Joe works here, but usually it's Fred or Mick.



Exchanging the goods.

• The yard foreman gets the ordered items from the yard and gives them to the builder.



Making the receipt

• The builder signs the duplicate docket and leaves one copy with the foreman and takes one copy as a receipt.



Checking the stock

• Every week, Joe looks around the yard to see if any of his stock is running low.



Reordering

- He rings up the relevant suppliers and reorders stock.
- He records the order in his order book, which is kept in the yard.

23rd September 2007 Order from Buckleys J lots of Cavity Blocks (500) and 20 lots of Cavity Blocks (100). Received 25/9/2007. Cost €12245.00 24th September 2007 Order from Mary O'Brien, J x 2L White Emulsion Paint, Jx1L White Gloss Paint. 25th September 2007

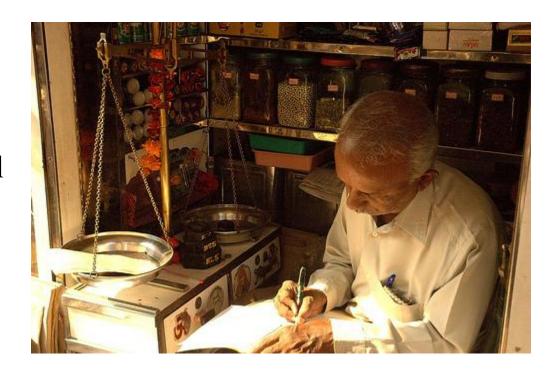
Taking delivery from the supplier

- The yard foreman takes delivery of the new stock and checks it against what has been ordered.
- He pays for it on delivery and staples the receipt into the order book.



The shareholders' report

• At the end of every month, Joe goes through all the dockets and the order book and produces a financial report for the shareholders.



Some of Joe's problems

- Sometimes, Joe forgets to order a popular item, because there are none left when he walks around and he can't remember what he had.
- Joe wants to know who his customers are, so that he can see what they bought and tout for business.
- Joe wants to be able to order whenever he runs out of stock
 not just weekly.

What data do we need to hold for Joe?

- We have a copy of
 - some of his dockets
 - His order book
- We know who works for him
 - i.e. who will be using the system
- We know he'd like to be able to do *more* than he does now.

oe's Docket

Joe's Builders' Supplies

(01) 8437083 Main St., Malmont, D27.

Stock code.	Quantity	Description	Unit Price	VAT (20%)	Total Price
A642	4	4"x4" treated timber	£9.50	£1.90	£45.60
J555	1	Box of 6" phillips screws (100)	£5.00	£1.00	£6.00
J501	1	Phillips head screwdriver	£8.00	£1.60	£9.60

Total Amount Due: £61.20

Docket No: 196

Docket paid signature_Joe Bloggs (Staff)

Staff No: 124 Staff Name_Joe Bloggs Staff Role: Yard foreman

Items received signature <u>Andy Handy</u> (Customer)

£591.00

Doglat No: 701

Iotal Amount Due:

" If you can't find it, go to Jo	6.
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Joe's Builders' Supplies

(03) 8437083 Main St., Malmont, D27.

Stock code.	Quentity	Description	Unit Price	VAT (20%)	Total Price
A101	•	RT 9"	* 65.0	±1 3.50.	#71.50
7555	2	Box of (" phillips, samews (100)	£5.00	#1 .00	£1 2.00
E422	1	Hijji Nail Gun	#30.00	£1 6,00	#96,00
7558	2	6" Flat Naik	£5,00	£1 ,00	£1 2.00

Docket paid signature Mick Murphy (Staff)

Staff No: 724 Staff Name Mick Murphy Staff Role: Yard foreman

Items received signature...John 0' Connell...(Customer)

Joe's Yard User Catalogue

- Joe may be working in the shop or in the yard. He also compiles the restocking order.
- Fred works as a foreman in the yard from Monday to Saturday.
- Mick works as a foreman in the yard from Thursday to Saturday.
- Robbie works behind the counter in Joe's.

Joe's Yard new Requirements(1)

- We want Joe to have a stock level on his stock, so that we know what needs to be ordered
- Test to see if stock levels can be viewed and if a warning can be issued to when stock goes low
- Two extra pieces of information are required a current stock level and a reorder level.

Joe's Yard new Requirements(2)

- We want Joe to know who his customers are, so that he can tout for repeat business.
- Test to see if customer records are being kept for 2 years after their last purchase.
- An extra entity is required to hold customer information and we need to hold docket information for a year.

Deriving the data structure

- We will go through clear guidelines on this later in the Semester.
- For now, let's just look at what we came up with for Joe...

Required new data structure

