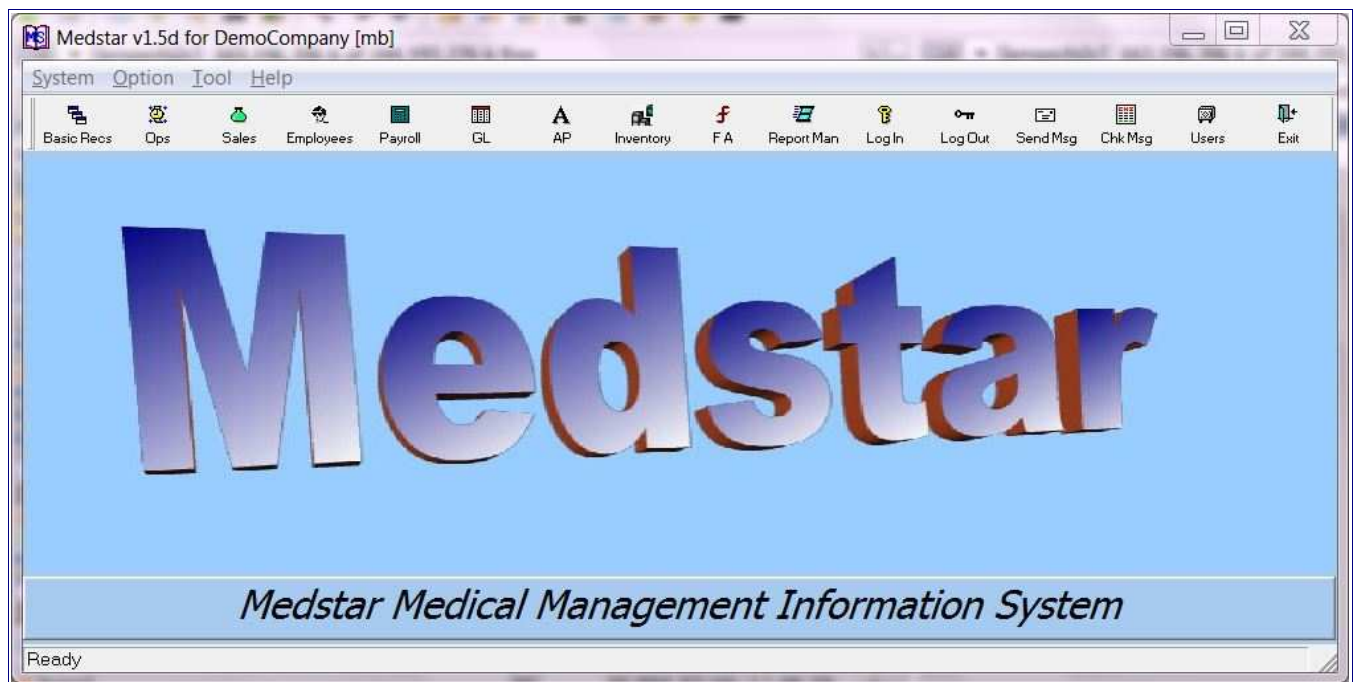


Presenting...



An Integrated Medical and
Accounting Management
Information System for
Hospitals

**A NITDA e-Solve National Software
Competition Entry**

PRESENTED BY:

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September 2014

Introducing... Medstar

1. Core objective

Our application Medstar is an integrated medical records and accounting management information system for hospitals.

2. How it works

Medstar is a modular application, with functions grouped in modules. Some modules can work without others but all share the same database when present. First a look at the general application features, then the features of some of the different component modules.

2.1. General application software features

2.1.1. Security

Each user of the system has an ID, a personal password, and a list of permitted activities (in every module). The database is encrypted.

2.1.2. Data entry

Entering data in Medstar is through spreadsheet-like browse lists and data entry forms. Lists present several rows (records) of data on the screen while a form shows just one row for easier viewing. Browse lists are used to manage records with few data fields, while forms are used for records with many fields. Browse lists are resizable grids, with movable and resizable columns. On each data entry form or list, buttons and commands are available for data management (insert, delete, retrieve, update, sort, etc). In addition to normal text entry, the standard Windows data entry controls are also used, such as listboxes, combo lists, checkboxes and radio buttons. Dates allow for 4-digit years.

2.1.3. Reporting

Formatted reports when generated may be viewed on screen or printed. A Report Manager tool is available for managing reports generated and stored on the hard disk or the database. The data entry screens also have Print buttons to produce quick print-outs of data on the screen. The formatted reports have special markers like user and date stamps and page number.

2.1.4. Auditing

There is an audit table with restricted access in which the user ID, date and time are recorded for all entries, exits and operational activities within Medstar. So data changes and who made them are logged. Certain transactions may also be printed and corrected prior to posting.

2.1.5. Referential integrity

The RDBMS ensures that data integrity is maintained at all times. Values that should be defined in look-up tables must exist before records are saved at all. Similarly before any record can be deleted, it must not have other records depending on it, unless these will also be deleted automatically.

2.1.6. Parametrization

Medstar uses a parameter table as well as look-up tables to hold data that control how it works. The parameter table holds important variables most of which some users will be able to modify. Users will also be able to maintain the look-up tables. As much as possible, embedding of data values in program code is avoided.

2.1.7. Data Backup

Backing up of the database is one of the functions handled by a utility of the RDBMS. However it is possible to call up the utility to perform this function from within the Medstar application at any time, with all utility parameters supplied automatically.

2.1.8. Instant Messaging

This facility allows users of Medstar to exchange messages. System-generated messages will also be possible, such as to alert designated users of certain situations, possibly with audio prompts. So when a patient visits, the doctor could be alerted with a message. When a message is sent, it will pop up at the receiver's workstation within 5 seconds or less, or whenever the recipient logs into the system.

2.2. Functional modular features

There are up to nine integrated modules in the system, two for core medical records and functions. However some modules will be optional. The medical modules are Basic Records and Operations. The accounting modules are General Ledger, Sales, Inventory Control, Employees, Payroll, Accounts Payable and Fixed Assets. The same chart of accounts defined in GL will be available in each of the other modules. From the other accounting modules will flow transactional information to the GL. Their functions are listed below.

2.2.1. Basic Records

This is the core medical module. This comprehensive module handles the management of basic patient information, from registration to discharge. When a patient is registered, the module sets up the necessary records for the patient's basic data, admission details, discharge details, accounting data as well as drug administration details. One of its main functions is maintenance of daily attendance registers which could be referred to at any point in time for reference as well as statistical reporting. Some of the important reports from this module include patient list, attendance register, attendance history, admission and discharge lists, registration and drug history. Key components of the module are Patient Billing, Case Notes and Appointment Scheduling.

2.2.2. Operations

This module complements the Basic Records with specialized data management facilities in the following areas: Lab test chemicals/setup; ante-natal; counseling; surgery; x-ray; ultrasound scan; lab test results.

2.2.3. Inventory Control

This is a comprehensive module which monitors the movement of drugs from delivery to filling of prescriptions to expiry. It maintains supplier accounts, monitoring invoices and payments; tracks drugs issue to patients and various sections; maintains re-order levels and monitors use of dangerous drugs. Different batches are maintained per drug, with supplier information, supply date and expiration date. One of its key functions is maintenance of drug profiles of vital technical details. Some of the reports of the module include detailed drug report, drug profile, drug usage analysis, missing drugs lists, requisition list, expiry report and dangerous drugs list. The module also handles other non-drug inventory like general consumables.

2.2.4. Sales

This module correctly tracks all bills, and payments made by patients. Company-sponsored patients are handled as well as self-sponsored ones. Some of the important reports from this module are invoice, statement of account, account aging, and covering letters for statements.

2.2.5. Fixed Assets

The fixed assets register is maintained by this module. Net present value calculations as well as depreciation are automatically made. The module features are: Assets classification; lab/general equipment; other assets; depreciation & write-offs; transfers between locations.

2.2.6. Employees

This module allows for management of staff records from date of appointment to date of resignation. The staff record maintained includes the usual name and address, department and contact details, as well as areas of expertise, specialty and other similar data. The module features are: Professional and administrative personnel records management; leave tracking; medical expenses; storage and retrieval of various images (signature, passport photo) and RTF documents; next-of-kin's name, address and phone number; addresses, various phone/fax numbers/email addresses, etc.

2.2.7. Payroll

This module complements the Employees module in automating accounting operations in the hospital and clinic. It allows for management of staff pay records from date of appointment to date of resignation with cumulative figures for payments, tax and other deductions. Tax calculation is automatic as well as loan monitoring, overtime and other variable items. Sample reports include staff list by post or specialty, payroll history, payslip, bank and cash salary analysis, payments and deductions register, as well as a number of payroll analysis reports.

2.2.8. Accounts Payable

This module monitors the accounts of contractors and other creditors. It will be used for generating purchase orders and monitoring activities on such orders including deliveries and payments. Reports to be generated include: Payment schedule; Creditors List.

2.2.9. General Ledger

Last but not the least, the General Ledger module is at the center of the accounting system. This facilitates administration of the hospital or clinic by providing standard, debit-credit ledger accounting functions. Other modules can send information (transaction journals) to the GL if desired. The module features are: Professional ledger accounting (maintaining bank, cash and journal ledgers); instant account balance look-up; on-demand trial balance, balance sheet, income statement, statements of account; budgeting and bank reconciliation.

3. Technologies used

Medstar is a client/server application. The development of the client component of Medstar, an executable Windows application, was done using Sybase PowerBuilder, one of the fastest RAD (rapid application development) tools presently available for database applications. The server-based database was created using SQL Anywhere also from Sybase, now an SAP Company. The present capacity of SQL Anywhere is over 12 terabytes, limited only by hard disk capacity. SQL Anywhere is mainly compatible with Sybase's (and Microsoft's) SQL Server, for big organizations with much higher storage or processing requirements. It runs on a wide variety of platforms: Microsoft Windows, Linux, Sun Solaris, Mac OS, etc. Client to server communication is via ODBC or native database calls on a TCP/IP network.

4. Why consider Medstar?

Medstar is a secure, low-cost and scalable solution. It can be adopted by small hospitals as well as large establishments. It is a new software solution that could go a long way in automating hospital operations in the country and elsewhere.

This is a documentation of the user interface, screen shots taken from various modules of Medstar.

1. User security

1.1. Login screen for User ID and password entry



1.2. The User list: Modules and general user right settings

User ID	Name	Employee code	Supervisor	Revision Log	Backup DB	Change DB	Update DB List	Messaging	GL	Inventory
aaa	bolaji A. A	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
chris	Operator		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
cle	Lemeechi, Chris	CLE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
demo	Demo User	JD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ioa	Abebe I.O.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
oha	Adu. Tope	ABU	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ssa	Stainless S.A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
system	MoneyBooks	CLE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
x	New user1		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1.3. A typical User Form : Specifying what non-supervisor can do in a module

Demo User

File Open Submenu

Quotation: Customer:
Waybill: Product:
Invoice: Price Type:
Receipt: Bank Account:
Credit Note: Exchange Rate:
Parameters:
☐ History

Build Report Submenu

☐ Waybill
☐ Invoice
☐ Receipt
☐ Credit Note
☐ Outstanding
☐ Sales Analysis
☐ Receipts Analysis
☐ Price List
☐ Monthly Sales Ledger

Process Menu

☐ Post Transactions
☐ End Year

Tool Menu

☐ Build Historical
☐ Purge Historical
☐ Purge Transactions

1.4. The Audit Trail: Who did what, when and where.

When	Who	What	Module
13/6/2012 18:20:35	demo	INSERTED in CONSULT_PRESCRIPTION (Consulting Form [HQ00000008 Yomi, Davies Mr 13/6/2012]): sn=1, stockcode=020901, qtyprescribed=30.00, days=5, timesdaily=3, qtyperdose=2.00, instructions=advice for pharmacy, qtygiven=0, description=Aspirin dispersable tab 300mgm, unit=1TAB, onhand=9950.00, saleprice=0.25	MSBR
13/6/2012 18:20:35	demo	Update successfully completed.	MSBR
13/6/2012 18:23:22	demo	MODIFIED in CONSULT (Consulting Form [HQ00000008 Yomi, Davies Mr 13/6/2012]): consultno=HQ00000008: seenbydoctor, FROM 'N' TO 'Y', consulttimestop, FROM (null) TO '18:15:00', duration, FROM '0' TO '75'	MSBR
13/6/2012 18:23:22	demo	Update successfully completed.	MSBR
13/6/2012 18:31:12	demo	MODIFIED in DISPENSARY_PRESCRIPTION (Dispensary Register): stockcode=020901: qtygiven, FROM '0' TO '30.00', dategiven, FROM (null) TO '13/6/2012 18:30:05', givenby, FROM (null) TO 'JD', warehouse, FROM (null) TO 'MAIN'	MSBR
13/6/2012 18:31:13	demo	Update successfully completed.	MSBR
13/6/2012 18:50:33	ioa	Exit Medstar Basic Records	MSBR
13/6/2012 18:50:35	ioa	Log Out	
13/6/2012 18:52:10	ioa	Log Out	

Page 24 of 25

2. Parameter data entry

From Patient Category down to Charges.

Medstar Basic Records v1.5d for Osuntuyi

File Edit Report Option Tool Window Help

Patient Attendance Pre-con Consulting Admission Appt Personnel Dispensary Security Report Man Calculator Send Msg Chk Msg Undo Cut Copy Paste Clear Print Preview Print Setup Help

Patient Category List

Code	Category Name
EMPLOYEE	Employee

Patient Status List

Code	Status Name
REGISTER	Newly Registered

Country List

COUNTRY CODE	COUNTRY NAME
BENIN	Benin Republic

State List

COUNTRY CODE	STATE CODE	STATE NAME
NIGERIA	AB	Abia

Location List

Code	Location Name
ABUJA	Abuja Branch

Department List

Code	Department Name
ADMIN	Administration
OPERATIONS	Operations
TECHNICAL	Technical

Specialty List

Code	Specialty Name
ANESTHESIA	Anesthesia

Designation List

Code	Designation Name
ACSO	Admin/Client Services Officer
ADMINASST	Admin Assistant
ANESTHETIS	Anesthetist

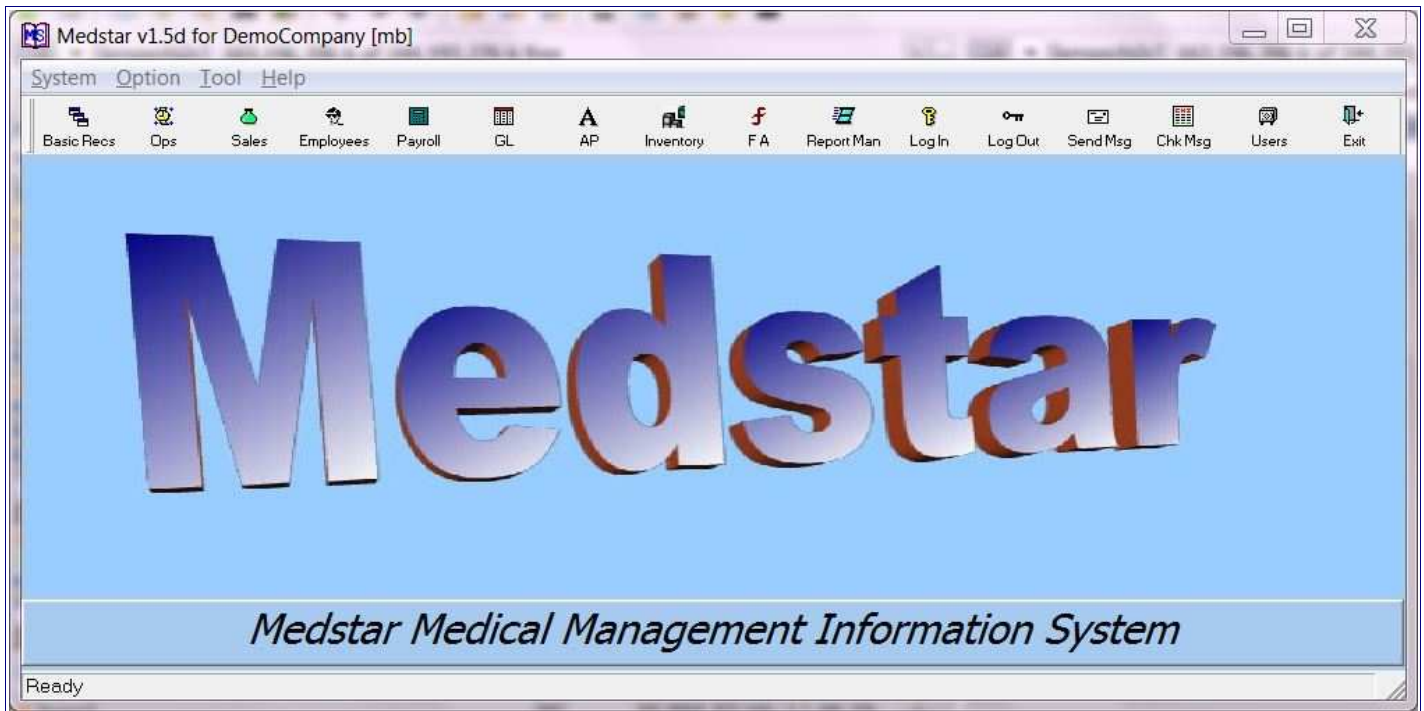
Charges List

Code	Description	Price	Unit	Obsolete	Note
002		0.00	Unit	<input type="checkbox"/>	MBIN
003		0.00	Unit	<input type="checkbox"/>	MBIN
CONSULT	Medical Consultation Standard	1,500.00	Call	<input type="checkbox"/>	
CONSULTTHR	Medical Consultation Time	1,000.00	Hour	<input type="checkbox"/>	
M	Magazine	1.00	Unit	<input type="checkbox"/>	
Modify	Software modification	2,400.00	Hour	<input checked="" type="checkbox"/>	
REGPATIENT	Patient registration	500.00	Call	<input type="checkbox"/>	
STAPPLE	Staple pin	0.00	Unit	<input type="checkbox"/>	MBIN
Support	Technical support	2,400.00	Hour	<input type="checkbox"/>	
9 items					

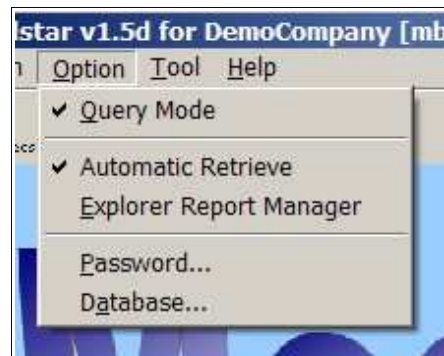
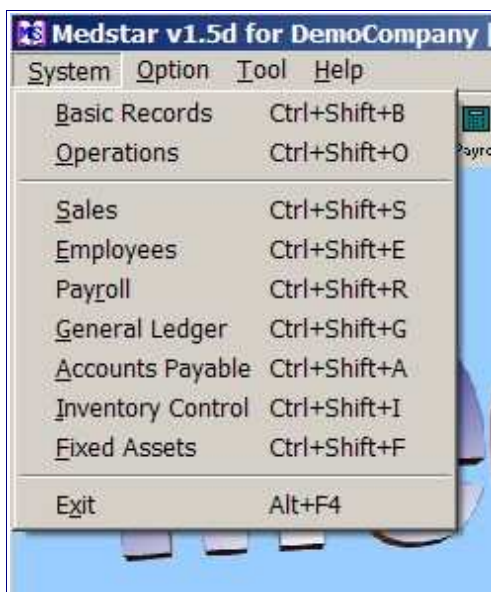
Ready

3. Main Screen and Features

3.1. The main screen: From here different modules are launched.



3.2. The System Module menus



3.3. Instant Messaging screens

Yr	Mth	Day	Sent Date/Time	From	To	Subject	Message Body
2014	7	24	24/7/2014 18:14:00	cle	demo	DOCUMENTING THE MESSAGING FA	This is a test message ...
	4	11	11/4/2014 16:54:28	cle	demo	RE: TESTING AUTO MARK AS READ	It works.
			11/4/2014 16:53:29	demo	cle	TESTING AUTO MARK AS READ WH	
	2	26	26/2/2014 11:14:53	cle	oha,demo	TEST MESSAGE TO OHA,DEMO	
2012	7	12	12/7/2012 15:04:53	demo	cle	TESTING	testing!
			12/7/2012 14:53:14			RE[2]: RE: TEST PROJECT	
	6	19	19/6/2012 10:57:42	cle	demo	TESTING AUDIO PROMPT	
		13	13/6/2012 18:54:10	ioa	demo	HELLO	My First Message
			13/6/2012 18:53:15		cle	HELLO	Initial test
			13/6/2012 18:49:09	demo	ioa	THIS IS A TEST	This is a test message to IOA.
	6	6	6/6/2012 11:33:54	cle	demo	THIS A TEST MESSAGE	
			6/6/2012 11:30:07			TEST MESSAGE 1	
	5	5	5/6/2012 12:43:31	cle	demo	TESTING	
	5	31	31/5/2012 05:09:03	demo	cle	MODULE TEST THURSDAY	
		30	30/5/2012 18:46:47	cle	demo	TESTING	
			30/5/2012 18:33:45	demo	cle	MODULE MSG TEST FROM HP510	

Send Message

To:

Code type: General

Send

From:

Message type: Informational

Print

Sent:

Deadline:

Reply...

Subject:

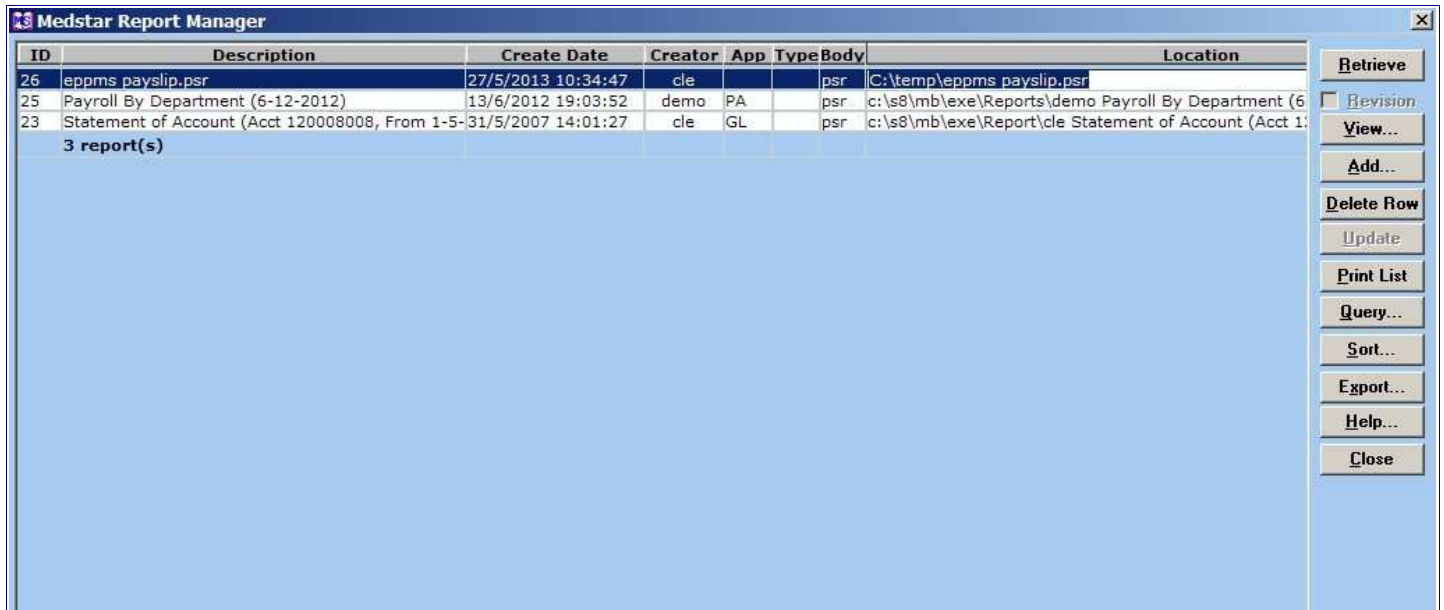
Forward...

Help...

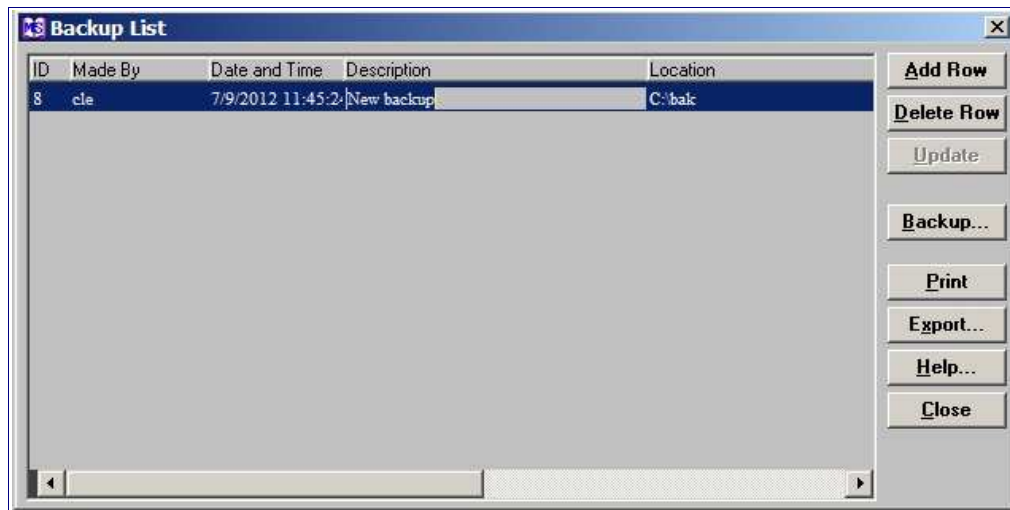
Close

☒ Show everyone
 Time read:
 Replied:

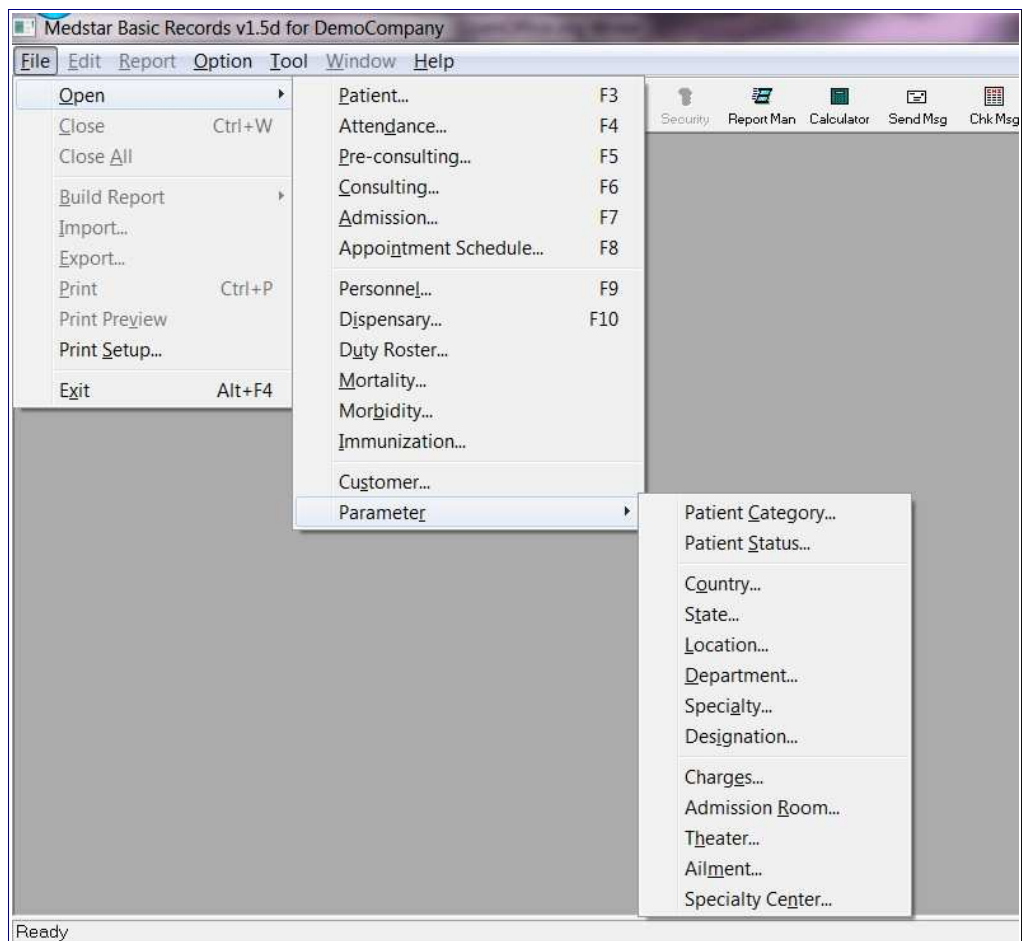
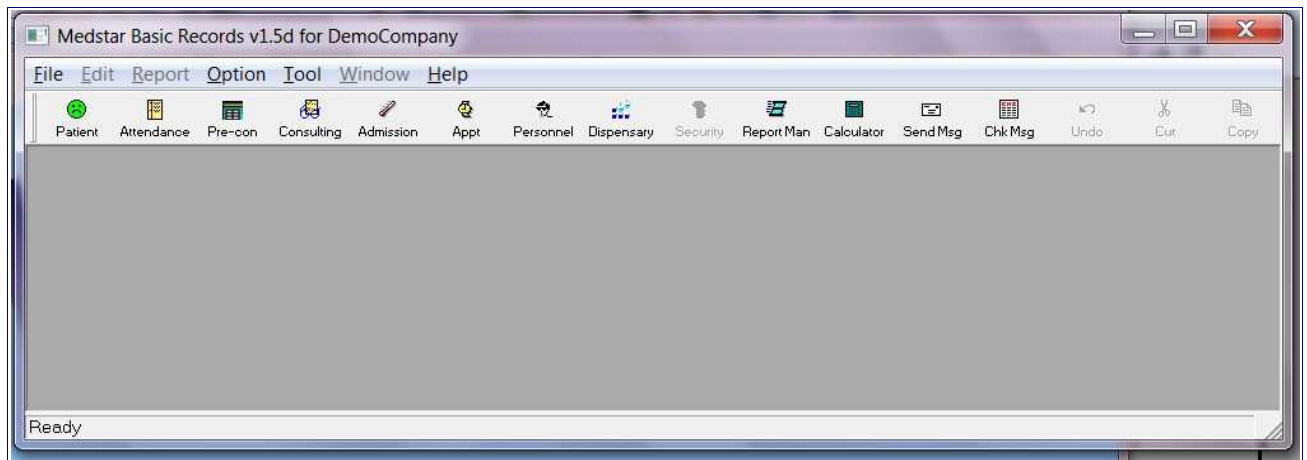
3.4. Report Manager: For managing generated and saved reports



3.5. Backup List



3.6. The Basic Records Module



4. What happens when a new patient is registered?

Customer code assigned if private. Bill tables (waybill,invoice) are created with registration charge.

4.1. Attendance register, with editing toolbar by the right

Year	Mth	Date	Patient No.	Name	Category	Status	Time In	Consulting?	Purpose	Time Out	Location
2012	6	13/6/2012	HQ12060006	Oro, Fidelis Mr		REGISTER	10:30 am	Yes	Consultation		HQ
			HQ12060008	Pan, Peter Mr		REGISTER	12:39 pm	Yes	Consultation		HQ
			HQ12050001	Tom, Thomas Mr		REGISTER	01:14 pm	No	Consultation		HQ
			HQ12060007	Adeola, Ola Mr		REGISTER	01:24 pm	Yes	Consultation		HQ
			HQ12060006	Oro, Fidelis Mr		REGISTER	01:24 pm	Yes	Consultation		HQ
			HQ12060009	Ben, Big Man Mr		REGISTER	02:40 pm	Yes	Consultation		HQ
			HQ12060010	Yomi, Davies Mr		REGISTER	05:52 pm	Yes	Consultation		HQ
		11/06/2012	HQ12060001	Doe, David Mr		REGISTER	04:21 am	Yes	Consultation		HQ
		10/06/2012	HQ12060002	Davies, Bola Miss		REGISTER	08:55 am	Yes	Consultation 1	09:00 am	HQ
			PH12060002	Babale, Dora Miss		REGISTER	09:05 am	Yes	Consultation 1	10:00 am	HQ
	5	11/05/2012	HQ12060001	Doe, David Mr		REGISTER	09:15 am	Yes	Consultation 2	09:30 am	HQ

Lookup Patient...

4.2. Patient list.

Yr	Mth	Patient No.	Surname	Forename	Title	Male	Next Apptment	Doctor	Private	Customer	Referred	Status	Status Date
2012	6	PH12060002	Babale	Dora	Miss	No			No	LP	Yes	REGISTER	9/6/2012 12:37
		PH12060001	Chris	Peter	Dr.	Yes			No	ABC	No	REGISTER	9/6/2012 09:51
	5	PH12050001	Doe	Kevin	Mr	Yes			Yes	DOE0002	Yes	REGISTER	9/6/2012 12:05
	6	HQ12060010	Yomi	Davies	Mr	Yes			Yes	YOMI	No	REGISTER	13/6/2012 17:42
		HQ12060009	Ben	Big Man	Mr	Yes			Yes	BEN	No	REGISTER	13/6/2012 14:38
		HQ12060008	Pan	Peter	Mr	Yes			No	ABC	No	REGISTER	13/6/2012 12:38
		HQ12060007	Adeola	Ola	Mr	Yes			Yes	ADEOLA	No	REGISTER	9/6/2012 12:55
		HQ12060006	Oro	Fidelis	Mr	Yes			Yes	ORO	No	REGISTER	9/6/2012 12:05
		HQ12060005	Madu	Andrew	Mr	Yes			Yes	MADU	No	REGISTER	9/6/2012 10:48
		HQ12060004	Doe	John	Mr	Yes			Yes	DOE0001	No	REGISTER	9/6/2012 09:46
		HQ12060003	Doe	Mary	Mrs	No			No	DOE	No	REGISTER	9/6/2012 00:00
		HQ12060002	Davies	Bola	Miss	No			No	ABC	No	REGISTER	1/6/2012 00:00
		HQ12060001	Doe	David	Mr	Yes			Yes	DOE	No	REGISTER	9/6/2012 00:00
	5	HQ12050001	Tom	Thomas	Mr	Yes			No	LP	No	REGISTER	9/6/2012 08:03
14 active patients													

Detailed List Lookup and Assign ID... Lookup Customer...

4.3. Pre-consulting register.

Pre-Consulting Register													
Year	Mth	Date	Consult No.	Purpose	Seen By Doctor	Patient No.	Name	Pulse Rate	Temperature	Respiratory Rate	Blood Pressure	Weight kg	Height m
2012	6	13/6/2012	HQ00000002	Consulting	Yes	HQ12060008	Pan, Peter Mr		55.00		60/70	72.50	4.00
2012	6	13/06/2012	HQ00000003	Ante-natal	No	HQ12050001	Tom, Thomas Mr						
2012	6	13/06/2012	HQ00000004	Consulting	No	HQ12060006	Oro, Fidelis Mr						
2012	6	13/06/2012	HQ00000005	Consulting	No	HQ12060007	Adeola, Ola Mr						
2012	6	13/06/2012	HQ00000006	Consulting	No	HQ12060006	Oro, Fidelis Mr						
2012	6	13/06/2012	HQ00000007	Consulting	Yes	HQ12060009	Ben, Big Man Mr		45.00			76.00	4.20
2012	6	13/06/2012	HQ00000008	Consulting	Yes	HQ12060010	Yomi, Davies Mr		50.00		60/60	70.00	5.00
2012	6	11/06/2012	HQ00000001	Consulting	Yes	HQ12060001	Doe, David Mr	pulse	50.00			75.00	5.25
			Rows: 8										

4.4. Professional list: The doctors, nurses and other professionals

Professional List									
Surname	Forename	Prof Code	Visiting?	Employee Code	Designation	Specialty	Title	Male	License No.
Awosika	Kehinde	AC	Yes		Anesthetist	Anesthesia	Mr	Yes	0000140
Doe	Mary	DOE	Yes				Mrs	No	
Kin	Ada B.	KINADAB	Yes		Nurse	Nursing	Mrs	No	007/007
Kin	Next	KIN	No	KIN			Mr	Yes	0001010
Lemeechi	Chris	LEMEECHI	No	CLE	General surgeon	General surgery	Dr	Yes	100100
Mark	Toby L	MARK	Yes		Medical	Pediatrics	Mr	Yes	
Oro	Fidelis	FOO	No	FOO	Marketing Executive		Mr	Yes	
7 active professionals									

5. When patient consults doctor?

Doctor makes his notes, including diagnosis and prescription

5.1. Consulting register

Year	Mth	Date	Consult No.	Purpose	Seen By Doctor	Patient No.	Name	Pulse Rate	Temperature	Respiratory Rate	Blood Pressure	Weight kg	Height
2012	6	13/06/2012	HQ00000002	Consulting	Yes	HQ12060008	Pan, Peter Mr		55.00		60/70	72.50	4.0
2012	6	13/06/2012	HQ00000003	Ante-natal	No	HQ12050001	Tom, Thomas Mr						
2012	6	13/06/2012	HQ00000004	Consulting	No	HQ12060006	Oro, Fidelis Mr						
2012	6	13/06/2012	HQ00000005	Consulting	No	HQ12060007	Adeola, Ola Mr						
2012	6	13/06/2012	HQ00000006	Consulting	No	HQ12060006	Oro, Fidelis Mr						
2012	6	13/06/2012	HQ00000007	Consulting	Yes	HQ12060009	Ben, Big Man Mr		45.00			76.00	4.2
2012	6	13/06/2012	HQ00000008	Consulting	Yes	HQ12060010	Yomi, Davies Mr		50.00		60/60	70.00	5.0
2012	6	11/06/2012	HQ00000001	Consulting	Yes	HQ12060001	Doe, David Mr	pulse	50.00			75.00	5.2
Rows: 8													

5.2. Consulting form

Consulting Form [HQ00000001 Doe, David Mr 11/06/2012]

General

Consultation number: HQ00000001

Date: 11/06/2012

Location: HQ

Seen by doctor ☒

Purpose: Consulting

Doctor: LEMEECHI Lemeechi, Chris Dr

Patient

Patient number: HQ12060001

Doe, David Mr

Date of birth:

☒ Male

Pulse rate: pulse

Blood pressure:

Temperature: 50.00

Weight (kg): 75.00

Respiratory rate:

Height (m): 5.25

Body mass index: 2.721

Timing and Charge

Start time: 04:00 pm

Stop time:

Duration: 0 0.00

Minutes Hour

Charge hours: 0

Charge code: CONSULT

Remove

Next appointment date:

Past Medical Hist... This is the past medical history for Mr Doe

Symptoms This is the symptoms for Mr Doe

Physical Findings This is the findings for Mr Doe

Plan of Action This is the plan of action for Mr Doe

Request Lab Test...

Request Counseling...

Request X-Ray...

Request U S Scan...

Request Admission...

Request Surgery...

5.3. Ailment Lookup Form: While diagnosis window is open.

*Doctor sets the stopping time: duration is calculated. Doctor indicates patient seen:
Consulting charge is billed.*

6. When doctor's prescription is filled?

Dispensary Register												
Year	Mth	Consult Date	Patient No.	Patient Name	SN	Code	Stock Description	Price	Stock Unit	Qty Prescribed	Qty Given	Dispensing Notes
2012	6	13/06/2012	HQ12060008	Pan, Peter Mr	1	020901	Aspirin dispersable tab 300mgm	0.25	1TAB	30	30	n/a
			HQ12060009	Ben, Big Man Mr	1	090113	Multivitamin tab	2.00	1TAB	30	30	get well soon.
			HQ12060010	Yomi, Davies Mr	1	020901	Aspirin dispersable tab 300mgm	0.25	1TAB	30	30	
			11/06/2012	HQ12060001	Doe, David Mr	1	020901	Aspirin dispersable tab 300mgm	0.25	1TAB	20	20
		2				090113	Multivitamin tab	2.00	1TAB	30	30	
							5 item(s)					
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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When prescription quantities are entered and updated: They are added to the bill and deducted from on-hand quantity. (Waybill and Invoice updated.)

6.1. Customer screens (Sales module)

Customer List

Cust Code	Customer Name	Contact Name	Contact Position	Address	Phone/Fax/E-mail	First Bill	Last Bill
ADEOLA	ADEOLA, OLA MR					9/6/2012	9/6/2012
BEN	BEN, BIG MAN MR					13/6/2012	13/6/2012
DOE	DOE, D. . MR					9/6/2012	13/6/2012
DOE0001	DOE, J. MR					9/6/2012	9/6/2012
DOE0002	DOE, K. MR					9/6/2012	9/6/2012
MADU	MADU, A. MR					9/6/2012	9/6/2012
ORO	ORO, F. MR					9/6/2012	9/6/2012
YOMI	YOMI, DAVIES MR					13/6/2012	13/6/2012
8 customers							

Customer Form [YOMI]

CUSTOMER FORM

Customer code: **YOMI**

Customer name: **YOMI, DAVIES MR**

Address:

Phone/fax/

Price type

Zone

Group

Grace days for payment: **0**

Contact
 Name:
 Position:

Financial Info
 Bill to-date: **2,107.88** First bill date: **13/06/2012**
 Paid to-date: **2,300.00** Last bill date: **13/06/2012**
 Balance: **192.12** GL Account: **120006099**

6.2. Waybill and invoice screens (Sales module)

Waybill Form [00151]

Waybill No: **00151** Date: **13/06/2012** Amount: **2,007.50** ☒ Posted
 Customer: **YOMI** **YOMI, DAVIES MR** ☐ Special
 Cost center: ☐ Printed
 Project: Invoice: **00070** Modified by: Delivered by:

Line items

S/N	Product	Description	Quantity	Print Qty	Rate	Amount
SUPPLY OF PRODUCTS AND SERVICES:						
1	REGPATIENT	Patient registration HQ12060010 Yomi, Davies Mr	1.	1 Call	500.00	500.00
2	CONSULT	Medical Consultation Standard HQ12060010 Yomi, Davies Mr	1.	1 Call	1,500.00	1,500.00
3	020901	Aspirin dispersable tab 300mgm HQ12060010 Yomi, Davies Mr	30.	30 1TABS	0.25	7.50
TOTAL						2,007.50

You may use Ctrl+1 and Ctrl+2 to switch between the summary and detail panes.

YOMI, DAVIES MR

Nº 00070

DATE: 13/06/2012

YOUR LPO/REFERENCE

ATTENTION:

Waybill	S/N	Code	Description	Quantity	Rate	Amount
00151			SUPPLY OF PRODUCTS AND SERVICES:			
	1	REGPATIENT	Patient registration HQ12060010 Yomi, Davies Mr	1 Call	500.00	500.00
	2	CONSULT	Medical Consultation Standard HQ12060010 Yomi, Davies Mr	1 Call	1,500.00	1,500.00
	3	020901	Aspirin dispersable tab 300mgm HQ12060010 Yomi, Davies Mr	30 1TABS	0.25	7.50
AMOUNT IN WORDS			Subtotal			2,007.50
<div style="border: 1px solid black; padding: 5px;"> TWO THOUSAND, ONE HUNDRED AND SEVEN NAIRA, EIGHTY-EIGHT Kobo </div>						
			VAT 5.00% (VAT ID #IKD 00000020)			100.38
			Grand Total			2,107.88

FILE COPY

**AUTHORIZED
SIGNATURE**

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7. The Sales Module

Medstar Sales v1.86 for DemoCompany

File Edit Process Report Option Tool Window Help

Open Quotation... F3
Close Ctrl+W Waybill... F4
Close All Invoice... F5
Build Report Receipt... F6
Import...
Export...
Print Ctrl+P
Print Preview
Print Setup...
Exit Alt+F4

Customer...
Product...
Price Type...
Product Category...
Customer Group...
Customer Zone...
Customer Status...
Exchange Rate...
Sales Department...
Bank Account...
Cost Center...
Project...
Currency...
Quote Category...
Quote Terms...
Delivery Staff...
History

Summary S/A By Customer [1/1/2012 - 25/12/2012] Report

25/08/2014 15:42:30
Demo/ole/MBSA1.86

DEMONSTRATION COMPANY LTD

SALES ANALYSIS BY CUSTOMER - SUMMARY
Period: January 1, 2012 To December 25, 2012

Code	Customer Name	Gross Sales
ABC	ABC LIMITED	2,107.68
ADEOLA	ADEOLA, OLA MR	2,100.00
BEN	BEN, BIG-MAN MR	2,163.00
DOE	DOE, D. MR	3,218.25
DOE0001		
DOE0002		
LP		
MADU		
ORO		
SUNDRY		
YOMI		

Sales By Customer

Table maintenance commands

Receipt 00119 Customer Copy Report

Microsoft Research, Ltd RC 292732

RECEIPT

N^o 00119
DATE: 13/06/2012

received from YOMI, DAVIES MR
the sum of TWO THOUSAND, THREE HUNDRED NAIRA

paid by CASH
being Payment on Invoice# 00070

2,300.00

CUSTOMER COPY

authorized signature

8. Inventory Control module

Medstar Inventory Control v1.49 for DemoCompany

File Edit Process Report Option Tool Window Help

Open Close Ctrl+W Close All Build Report Import... Export... Print Ctrl+P Print Preview Print Setup... Exit Alt+F4

Stock Master... F3 Supplier... Warehouse... Location... Transaction... F4 History... F5 Exceptional Item... Stock Category... Stock Group... Cost Center... Project... Supplier Status...

Stock Balances (Historical) As at 25/9/2014. Warehouse: MAIN. Stock: All, Category: DRUGS Report

25/09/2014 15:57:28 Demo\cle\MBIN1 49

DEMONSTRATION COMPANY LTD

STOCK BALANCES
As at 25/9/2014. Warehouse: MAIN. Stock: All, Category: DRUGS

Code	Description	Avg Unit Cos	Qty	Unit	Value
Drugs					
020901	Aspirin dispersible tab 300mgm	0.25	9,000	1TAB	2,475.00
090113	Multivitamin tab	2.00	49,910	1TAB	99,820.00
090113	Ascorbic acid tab 500mgm	1.00	49,910	1TAB	49,910.00
090113	Multivitamin tal				
090113	Aspirin dispers				

Stock Transaction History List - Detail

Warehouse	Notes	Request No	Supplier	Order No	Cost Center	Project	Entry	User	ID	Stock Code	Stock De
00	MAIN	Adjustment				PROJECT	13/6/2012	cle	46	020901	Aspirin dispers
00	MAIN	Adjustment						cle	47	090113	Multivitamin tal
											Ascorbic acid t
											Multivitamin tal
											Aspirin dispers

Stock List

Stock Code	Description	On Hand	Unit	Group	Category	Part No	Weight	Wt Unit	Size	All
010101	Magnesium trisilicate tab	0.000	1TAB		DRUGS					
010102	Magnesium trisilicate mix	0.000	5ML		DRUGS					
010201	Hyoscine butyl bromide tab	0.000	1TAB		DRUGS					
010202	Hyoscine butyl bromide inj 20m	0.000	1 AMP		DRUGS					
010203	Metoclopramide tab 10mgm	0.000	1TAB		DRUGS					
010204	Metoclopramide syrup 5mgm/5ml	0.000	5ML		DRUGS					

Table maintenance commands

Stock Transaction History Form [SIN 000014 of 13/6/2012]

Type: SIN Reference: 000014 Date: 13/06/2012 Amount: 65.00

Warehouse: MAIN Remarks: WB 00138 User: cle 56

Request No Cost Center Order No Supplier Project Entry

OFFICE TEST1 24/10/201

Stock Code	Description	Quantity	Unit	Price	Total
020901	Aspirin dispersable tab 300mgm	20.000	1TAB	0.25	5.00
090113	Multivitamin tab	30.000	1TAB	2.00	60.00
2 item(s)					65.00

You may use Ctrl+1 and Ctrl+2 to switch between the summary and stock panes.

Lookup Stock...

9. General Ledger module

Medstar General Ledger v2.83 for DemoCompany

File Edit Process Report Option Tool Window Help

Open Ctrl+W
Close
Close All

Build Report
Import...
Export...
Print Ctrl+P
Print Preview
Print Setup...
Exit Alt+F4

Unposted Transaction...
Batch Transaction...
Chart of Accounts...
Trial Balance... Ctrl+Shift+T
Budget...
Transaction History...
Account Statement... Ctrl+Shift+A
Movement Summary...
Balance Sheet...
Income Statement...
Income Listing...

Transaction List

Prd	Yr	Mth	Date	Reference	Details	Total	Type	B
04	2012	6	09/06/2012	Inv.# 00058	Inv.#00058	\$25.00	Journal	doe
				Inv.# 00059	Inv.#00059 DOE HQ12060003	\$25.00	Journal	doe
				Inv.# 00060	Inv.#00060 HQ12050001 Tom, T	\$25.00	Journal	LP
				Inv.# 00061	Inv.#00061 HQ12060004 Doe, J.	\$25.00	Journal	DOE0001
				Inv.# 00062	Inv.#00062 PH12060001 Chris,	\$25.00	Journal	ABC

View Current View History View All Unpost View Details View Uncleared

Chart of Accounts

Account Code	Account Name	Type
100	FIXED ASSETS	Asset
100001000	Furniture & Fittings	Asset
100002	Office Equipment	Asset
100002000	Major Office Equipment	Asset
100002001	Computer Equipment	Asset
100002002	Office Equipment Others	Asset
100003	Source Code	Asset

View Balances

Trial Balance 2000 -To Date As at 7/6/2014 14:55:08 Report

Dem/cle/MBGL2.83
25/9/2014 15:26:13

DEMONSTRATION COMPANY LTD

TRIAL BALANCE
2000 -To Date As at 7/6/2014 14:55:08

A/C CODE	ACCOUNT NAME	DEBIT	CREDIT
100	FIXED ASSETS	468,533.00	
100001000	Furniture & Fittings	2,333.00	
100002	Office Equipment	466,200.00	
100002000	Major Office Equipment	466,200.00	
110	ACCUM. PROV. FOR DEPRECIATION		49,737.40
110002000	Major Office Equipment Depr		49,737.40
120	CURRENT ASSETS		29,498.13
120001001	Imprest	7,717.20	

Customized report commands

Transaction Form [231]Inv.#00070 HQ12060010 Yomi, D]

Date: 13/06/2012 Ref: Inv.# 00070 Total: 2,107.88

Details: Inv.#00070 HQ12060010 Yomi, D Beneficiary: YOMI

Transaction type: Journal

User: demo Period: 04 ☒ Posted 231

Account Details	Account Code	Account Name	Debit	Credit
Inv.#00070 HQ12060010 Yomi, D	120006099	Sundry Debtors	2,107.88	
Inv.#00070 HQ12060010 Yomi, D	400001000	General Support		2,007.50
Inv.#00070 HQ12060010 Yomi, D	200006004	VAT on Credit Sales (Uncolle		100.38
Total			2,107.88	2,107.88

You may use Ctrl+1 and Ctrl+2 to switch between the summary and account panes.

Details

10. Employees module

Medstar Employees v1.752 for DemoCompany

File Edit Process Report Option Tool Window Help

Open Employee... F3
 Close Ctrl+W
 Close All
 Build Report
 Import...
 Export...
 Print Ctrl+P
 Print Preview
 Print Setup...
 Exit Alt+F4

Employee... F3
 Resume... F4
 Attendance Register... F5
 Absentee Register...
 Lateness List...
 Attendance Summary...
 Exchange Rate... F6
 Document...
 Employee Skill...
 Training...
 Appraisal Issue...
 Leave Status...
 Leave History...
 Employee Appraisal...
 Medical Transaction... F7
 Notes... F8
 Resume Format...
 Profession...
 Course...
 Trainer...
 Medical Vendor...
 Currency...
 Organizational Parameter
 National Parameter
 Educational Parameter

Employee List

Surname	Forename
Adeola	Ola
Doe	John
Lemeechi	Chris
Oke	Anthony
Ola	Michael

Brief List Lookup ID...

Employee Notes List

Yr	Mth	Day	Issue Date	Employee	Full Name	Short Note/Summary	Long Note
2013	3	28	28/03/2013	CLE	Lemeechi, Chris L.	THIS IS A TEST ON 28/3/13	{rtf}\ansi deff0{
2012	9	28	28/09/2012	CLE	Lemeechi, Chris L.	FIRST ENTRY VIA NOTES LIST	{rtf}\ansi deff0{
	5	31	31/05/2012	KIN	Kim, Next O.	NOK of Mr Next O Kim	{rtf}\ansi deff0{
	29	29/05/2012	JD	Doe, John	DEMO		{rtf}\ansi deff0{
2001	12	12	12/12/2001	200	Josef, Lati	FIRST CHILD'S NAMING CEREMONY	{rtf}\ansi deff0{
6 notes							

Position	Title	Male	Other Name(s)	Marital	Department	Section	Location	Cate
	Mr	Yes	Henry	Single				
	Mr	Yes		Single				
Programmer	Dr	Yes			ADMIN	GENERAL	HQ	MANAG
er	Mr	Yes		Single	OPERATIONS	TECHNICAL	HQ	JUNIOR
stant	Mr	Yes		Married	ADMIN	GENERAL	ABUJA	MANAG

Maintain employee data

Employee Form [CLE]

EMPLOYEE FORM

Employee Code: **CLE** ID # **2**

Forename: **Chris**

Other Names:

Surname: **Lemeechi**

Title: **Dr**

Initials: **C. L.** ☒ Male

ID Card #: ☐ Active

Designation: **PROGRAMMER** Computer Programmer

Section: **GENERAL** General

Department: **ADMIN** Administration

Employee Category: **MANAGEMENT** Management Staff

Address... Children... Document... Email... Leaves... Medical... Next of Kin...
 Note... Number... Photo... Promotion... Resume... Skills... Training...

11. Payroll module

Medstar Payroll v2.10 for DemoCompany

File Edit Process Report Option Tool Window Help

Open Close Ctrl+W Close All Build Report Import... Export... Print Ctrl+P Print Preview Print Setup... Exit Alt+F4

Employee... F3
Variable Data... F4
Overtime... F5
Fixed Data... F6
Lqan Data... F7

Pay Point...
Department...
Section...
Designation...
Location...
Category...
Pension Fund Administrator...
Pay Item...
Salary Table...
Tax Table...
Coinage...
Accumulated Item...
Derived Item...
Payroll History...
Tax-Free Item...

Pay Item Name	Type	Taxable	Fixed Item	Pay Level	GL Account	Tax-Free Amount	Item Rate	Item Unit	Salary Scale
Salary	Allowance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	120010000	0.00	1.00		<input checked="" type="checkbox"/>
Loan	Loan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	600008000	0.00	1.00		<input checked="" type="checkbox"/>
Housing allowance	Allowance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	600008000	0.00	0.25	Naira	<input checked="" type="checkbox"/>
Medical (25%)	Deduction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0	600001000	0.00	1.00		<input checked="" type="checkbox"/>
Maneaus deduction	Deduction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0					<input checked="" type="checkbox"/>

Employee Fixed Item List

EMPLOYEE	NAME	ITEM	DESCRIPTION	AMOUNT
CLE	Lemeechi, Chris L.	BASIC	Basic salary	6,000.00
		HOUSE	Housing allowance	1,000.00
		TRANS	Transport allowance	700.00
		UTIL	Utility allowance	500.00
		PENS	Pension	1,155.00

Section	Location	Category	Paypoint	Taxregion	G/L	G/Step	Bank Acct #	Bank Typ
GENERAL	ABUJA	MANAGEMENT	CASH	NIGERIA	3	5		
			CASH					
GENERAL	HQ	MANAGEMENT	BANK	PITA-2011	3	1	200-100	
MARKETING	HQ	JUNIOR	BANK	NIGERIA				
			CASH					

Employee List

Emp. ID	Surname	First Name	Position	Department
200	Josef	L.		
ABU	Adeola	Ola		
CLE	Lemeechi	Chris L.	PROGRAMMER	ADMIN
FOO	Oron	Frank O.	MARKETING	OPERATIONS
KIN	Kin	Next O.		

5 active employees

Table maintenance commands

Payslip By Department (6/12/2012) Report

Demonstration Company Ltd
31 Adebayo Street (2nd Floor), Ketu, PO Box 50678 Ikoyi, Lagos
Tel. (01)878-3531 Website: www.microsoftwareresearch.com Email: mr@microsoftwareresearch.com

PAYSLIP

Staff: Lemeechi, Chris L. (CLE) Date: 06/12/2012
Position: Computer Programmer Location: Lagos HQ
Department: Administration Net Pay: 6,795.00

PAYMENTS/ALLOWANCES		DEDUCTIONS	
Basic salary	6,000.00	Staff savings sche BAL=500.00	250.00
Housing allowance	1,000.00	Pension BAL=4975.00	1,155.00
Transport allowance	700.00		1,405.00
Utility allowance	500.00		
	8,200.00		

Received By

12. Accounts Payable, Fixed Assets modules

