YEROTH–ERP–3.0 Software–System Product Sheet

YEROTH–ERP–3.0 is an **ERP software–system** with 6 **user roles, and types**:

1. « Administrator »
2. « Business manager »
3. « Cashier »
4. « Seller »
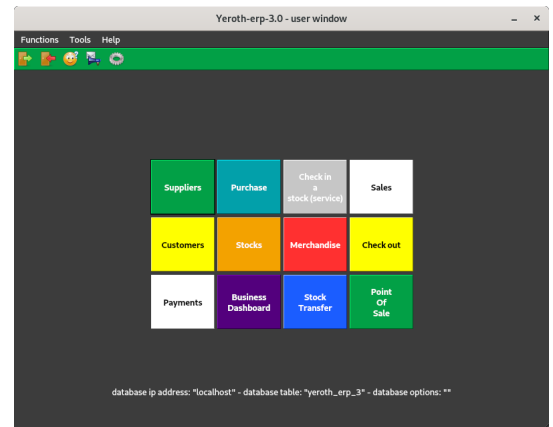5. « Stock manager »
6. « Storekeeper ».

YEROTH–ERP–3.0 **features**:

1. alerts over stock quantity, and, time period
2. business dashboard
3. customer relationship management (CRM)
4. sale management (e.g. point–of–sale)
5. stock management (e.g. check in)
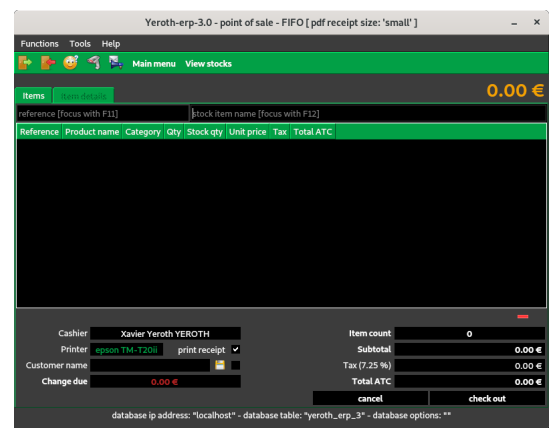6. user, and role administration.

YEROTH–ERP–3.0 **is**:

1. easier, and, intuitiver, in its use
2. lighter, and, faster, in memory usage
3. multi sites (enabled).

YEROTH–ERP–3.0's runtime memory usage test is realized using software analysis tool **valgrind**.

Business manager's main window

Cashier's main window

OPERATIONS

Point–of–Sale Hardware

✓ Barcode scanner
✓ Thermal printer, etc.

Database Management Systems

✓ MySQL

Operating Systems

✓ Debian–Linux

Advantages of YEROTH–ERP–3.0 Compared to Top Tier–1 ERP Software–Systems

YEROTH–ERP–3.0 is a very easy to use ERP (Enterprise Resource Planing) software–system because of its characteristics:

1. separate views for each user role
2. complete and fundamental training in 5 days
3. easy to use graphical user interface (GUI)
4. no college or university training needed
5. no formal business training needed
6. no financial accounting training needed
7. no internet connection needed.

Stock listing window

Table 1 pictures the 'effectiveness' and 'simplicity' of YEROTH–ERP–3.0, compared to top tier–1 ERP software–systems "Sage Gescom i7", and "SAP Business One".

	YEROTH–ERP–3.0	Sage Gescom i7	SAP Business One
separate views per user role	YES	NO	YES
complete training (or solution)	5 days	at least 2 months	at least 3 months
difficulty in navigation	very easy	difficult	very difficult
usage language in software	easy everyday English	simple	technical
financial accounting knowledge	no	no	useful
advanced marketing knowledge	no	useful	useful
internet connection	optional	mandatory	optional

Table 1: Comparison between YEROTH–ERP–3.0 and 2 top tier–1 full featured ERP software–systems

OPERATIONS

Point–of–Sale Hardware

✓ Barcode scanner
✓ Thermal printer, etc.

Database Management Systems

✓ MySQL

Operating Systems

✓ Debian–Linux

YEROTH–ERP–3.0 Point–Of–Sale Recommended Hardware

1 Barcode Scanner

We recommend, but not exclusively, the use of barcode scanner: **" Xfox FJ–5 USB Plug and Play Automatic Barcode Scanner "** (approx. 17 €).

Barcode Scanner

2 Thermal Printer

We recommend, but not exclusively, the use of thermal printer: **" Epson TM–T20ii Point of Sale Thermal Printer "** (approx. 100 €).

Thermal Printer

3 Cash Drawer

We recommend, but not exclusively, the use of cash drawer: **" HP QT457AT "** (approx. 90 €).

Cash Drawer

4 Touch Screen Monitor

We recommend, but not exclusively, the use of touch screen monitor: **" ASUS 15.6" LCD Monitor (VT168H) "** (approx. 155 €).

Touchscreen Monitor

5 Computer

We recommend, but not exclusively, the use of desktop computer: **" Lenovo Thinkcentre M720 Small Form Factor (SFF) "** (approx. 450 €).

Computer

Information Brochure of the
ERP software–system
YEROTH–ERP–3.0

DR. XAVIER NOUMBISSI NOUNDOU

Tasks	« Business manager »	« Seller »	« Stock manager »	« Storekeeper »	« Cashier »
insert stock (or service)	✓	✓ (SERVICE)	✓ (STOCK)		
delete stock	✓				
view stock	✓	✓	✓	✓	✓
modify stock	✓		✓		
transfer stock	✓		✓	✓	
modify stock management strategy (e.g.: « FIFO », etc.)	✓	✓ (NO PERMANENT)	✓ (NO PERMANENT)		
point–of–sale	✓	✓			✓
view stock transfers	✓		✓	✓	
purchase management	✓	✓	✓ (PARTIAL)		
supplier management	✓	✓			
customer relationship management (CRM)	✓	✓			
business dashboard	✓				
sale return	✓				
view sales information	✓	✓ (SELF)			

Table 1: YEROTH–ERP–3.0 functions–tasks, and associated users–roles.
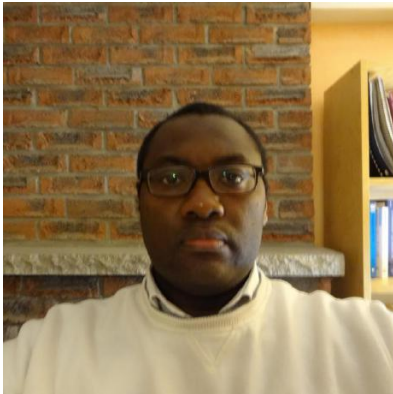
1 Developer Biography

Figure 1: Portrait of DR. XAVIER.

DR. XAVIER NOUMBISSI NOUNDOU is a CHRISTIAN BY FAITH, Cameroonian, born on September 16 1983 in DOUALA (LITTORAL region, CAMEROON).

Xavier has a *"Diplom–Informatiker (Dipl.–Inf.)"* qualification from the **University of Bremen, Bremen, Bremen, GER–MANY** (May 25, 2007).

Xavier is a *PH.D. in Software Engineering* (software construction, and testing) since November 18, 2020 because of his academic research, and professional engineering contributions as follows:

1. 'Context-Sensitive Staged Static Taint Analysis For C using LLVM'

   1. source code: http://github.com/sazzad114/saint
   2. full text (published on July 1ˢᵗ, 2015): http://archive.org/details/saint_201507.

2. 'YEROTH-ERP-3.0': http://archive.org/details/yeroth-erp-3-0-info-english.

2 Introduction

YEROTH–ERP–3.0 is an **Enterprise Resource Planing** (ERP) software–system.

Users of YEROTH–ERP–3.0 could have the following roles:

1. « Administrator »
2. « Business manager »
3. « Cashier »
4. « Seller »
5. « Stock manager »
6. « Storekeeper ».

YEROTH–ERP–3.0 allows for business management tasks listed in Table 1, depending on user role.

3 Advantages of YEROTH–ERP–3.0

1. YEROTH–ERP–3.0 is 100% stable

2. YEROTH–ERP–3.0 has an alert system with two types of alerts: alerts based on stock–quantity, and time–period alerts

3. users have the choice between small size receipts, and, bigger size receipts ("A4")

4. YEROTH–ERP–3.0 runs on the Linux operating system, because Linux is stable, performant, and less vulnerable to security breaches in comparison to other operating systems ('Windows 10')

5. YEROTH–ERP–3.0 has an user interface "Sales" to view sale information (Figure 2), and thus enables users to make managerial decisions

6. YEROTH–ERP–3.0 has an interface "Business dashboard" that generates financial accounting reports, from sale and payment information, to help managers to make "business decisions".

Figure 2: Sale–information window.

4 Alert System

Users with roles « Administrator » or « Business manager » are the ones able to create alerts.

YEROTH–ERP–3.0 allows its users to create two types of alerts:

1. alerts over stocks–quantities
2. alerts over time intervals (this helps for perissable articles and for sales discounts over a period of time).

4.1 Alerts over Stock–Quantity

An alert aver a stock–quantity is a message that is sent to a pre–determined user whenever "pre–determined" stock–quantity (X) of a specific article–stock is reached.

For instance, Xavier (« Business manager ») could create an alert for stock "mango" that will be trigerred whenever stock "mango" quantity reaches 100; An alert–message is sent to user John (« Storekeeper »).

4.2 Alerts over Time–Period

A time–period is defined by a starting–date and an ending–date (dates are from the "gregorian" calendar).

An alert aver a time–period (T) is a message that is generated, sent to a pre–determined user, and kept within YEROTH–ERP–3.0 from T's starting–date up to T's ending–date.

For example, an alert with a message has to be sent to Paul (« Cashier ») when the date of May 05th is reached. The alert message specifies that a rebate of 20% has to be applied on every sale of yoghourt 'trèsbon' during a time interval of 2 weeks.

5 Database Management System

YEROTH–ERP–3.0 uses 'MariaDB' as the standard DBMS. 'MariaDB' is very stable, very performant, and free–software.

6 Conclusion

Figure 3: Point–of–sale window.

Figure 3 illustrates the window for selling articles.

Figure 4: Administrative window for business manager.

Figure 4 illustrates the administrative window for business managers.