OF THE ERP SOFTWARE—SYSTEM

YEROTH-ERP-3.0

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1 Developer Biography



Figure 1: Portrait of Xavier

Xavier NOUMBISSI NOUNDOU is a Cameroonian, and was born in 1983. He holds a Master's degree in Computer Science (*Diplom—Informatiker* [*DIPL.—INF.*]) of the **University of Bremen** in Germany.

During his DIPL.—INF.—studies at the University of Bremen, Xavier worked part—time, for 25 months, as, Software Developer for **Bergmann Automaten GmbH**, located in Hamburg, at Rellingen, in Germany.

Xavier worked as Junior Software Developer for 21 months at SIEMENS Medical Solutions (Erlangen, Germany) just after obtaining his Master's degree in Computer Science.

Xavier leaves "SIEMENS Medical Solutions" in July 2009 to pursue doctoral studies (Ph.D. in Software Engineering) in the area of research "static code—analysis" in the research laboratory **Watform** of the **University of Waterloo** in Ontario, Canada.

In 2012, Xavier worked 8 months as a Ph.D.—graduate intern at **IBM Toronto Software Lab** in Markham (Ontario, Canada). Xavier was in the JIT compilation team of *Java J* 9.

Xavier leaves the research laboratory "Watform" in March 2015.

Xavier reads, writes, and talks fluently in English, French, and German.

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.

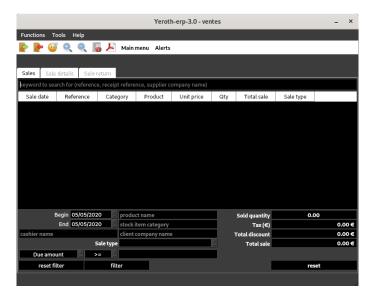


Figure 2: Sale-information window

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
- 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 vulnera-

Tasks	« Business manager »	« Seller »	« Stock manager »	« Storekeeper »	« Cashier »
insert stock (or service)	✓		\checkmark		
delete stock	✓				
view stock	✓	✓	√	√	√
modify stock	✓		\checkmark		
transfer stock	✓		\checkmark	√	
modify stock					
management strategy	\checkmark	partial	partial		
(ex.: « FIFO », etc.)					
point-of-sale	✓	✓			√
view stock transfers	✓		√	√	
customer management	✓	√			
business dashboard	✓				
sale return	\checkmark				
view sales information	√	partial			

Table 1: YEROTH—ERP—3.0 functions—tasks, and associated users—roles.

ble 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".

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 05^{th} 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

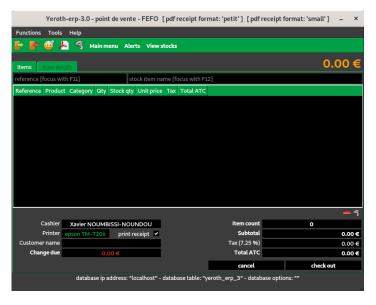


Figure 3: Point-of-sale window.

Figure 3 illustrates the window for selling articles.

YEROTH—ERP—3.0 is available in the English and French languages.