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 J9.

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.

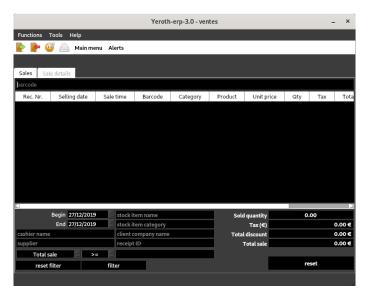


Figure 2: Sale-information window

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	<u>√</u>		<u> </u>		
delete stock	✓				
view merchandise list	√	√	\checkmark		
view stock	√	√	\checkmark	\checkmark	√
modify stock	√		√		
transfer stock	√		\checkmark	\checkmark	
modify stock					
management strategy	\checkmark	partial	partial		
(ex.: « FIFO », etc.)					
point-of-sale	✓	✓			√
view stock transfers	√		√	√	
customer management	\checkmark	√			
business dashboard	\checkmark				
view sales information	\checkmark	partial			

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

ble to security breaches in comparison to other operating systems

- 5) YEROTH—ERP—3.0 has an user interface "Sales", which helps the « Business manager » to view sales information (Figure 2)
- 6) YEROTH-ERP-3.0 has an interface "Business-Dashboard" that generates pie and bar charts, from sales information, in PDF format, to help the « Business manager » to take business-decisions.

4 Alert System

YEROTH—ERP—3.0 allows 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

Users with the roles « Administrator » or « Business manager » could create alerts that will be triggered whenever a "predetermined" stock—quantity will be reached.

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

4.2 Alerts over Time-Period

Users with roles « Administrator » or « Business manager » could create alerts that will be triggered whenever a "pre—specified" "gregorian" calendar date will be reached.

For example, an alert with a message has to be sent to Paul (« Cashier ») when the date of November 18^{th} is reached. The alert's message specifies that a rebate of 20% has to be applied on every sale of the yoghourt 'trèsbon', during a time interval of 2 weeks.

5 Database Management System

YEROTH—ERP—3.0 uses MySQL as the standard DBMS. MySQL is very stable, performant, and free.

6 Tasks of the User-Role « Administrator »

The main tasks of a user with the role « Administrator » among others are to:

 $\{create, modifiy, list, delete\} \longrightarrow \{an alert, a category of articles, a user account, a supplier account, a localisation\}.$

7 Conclusion

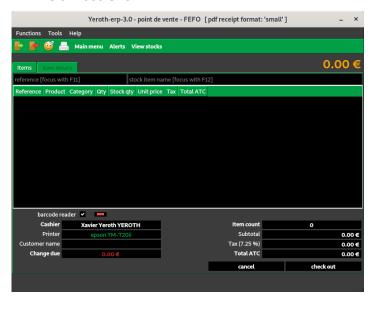


Figure 3: Point-of-sale window.

Figure 3 illustrates the window for selling articles.

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