UNIVERSIDAD DE LAS FUERZAS ARMADAS – ESPE

Department of Computer Science

PIM "PRODUCT INVENTORY MANAGER" - IEEE 830

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1 Introduction

1.1 Purpose

This system will be utilized for the administration and manage the inventory of a store, which is responsible to distribute pairs of shoes, the proposit of the program is drastically contribute to the organization of the business in a practical way, thus facilitating the process of purchasing, invoicing and registering an inventory.

1.2 Scope

The program called "PIM" Product Inventory Manager will be used, in a store managed by an organization that contains factors such as an inventory to keep an organized record of it.

The cashier staff, to invoice and select the types of payment, in a physical context in which all these processes are carried out in a way that hinders the fast and effective process, will manage a computer.

Cashier Application:

- Entry the system
- Manage the purchase
- Manage payment method
- Manage invoice registration

Manager Application:

- Manage Inventory
- Entry the system
- Manage Records

1.3 Involved Staff

Name	Darian Martinez
Role	Analyst, developer, tester, reviewer
Professional Category	Student of Software Engineering
Responsibilities	Review And Develop the code
Contact information	dmmartinez3@espe.edu.ec
Approbation	Yes

Name	Leoncio Moran
Role	Analyst, reviewer
Professional Category	Student of Software Engineering
Responsibilities	Review, Analysist the code, documentation
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Approbation	Yes

Name	Josué Merino
Role	Analyst, developer, tester, project manager
Professional Category	Student of Software Engineering
Responsibilities	Review and develop the code, documentation and Leader of the project.
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Approbation	Yes

Name	Johao Morales
Role	Analyst, developer, reviewer
Professional Category	Student of Software Engineering
Responsibilities	Review and develop the code, documentation
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Name	Alexandra Moscoso
Role	Analyst, developer
Professional Category	Student of Software Engineering
Responsibilities	Review and develop the code, documentation
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Approbation	Yes

1.4   Definitions, acronyms y abbreviators

Name	Description
User	Person that will use the system to manage process.
PIM	Product Inventory Manager
ERS	Software Requirements Specification
RF	Functional requirement
RNF	No functional requirement
FTP	File Transfer Protocol

1.5   References

Title of Document	Route	Date	Reference
Standard IEEE 830	PDF	22/10/2008	IEEE
Software Requirements Specification	http://www.qualitatis.org	12/04/2010	Qualitatis.org

1.6   Resume

The system was develop with the IDE NetBeans in focus Java, the Scrum life cycle is be utilized where is specified the sprints that develop each one of the contributors. As a group of work we will be focus in provide a system that set the tasks requested by the user, likewise developing the points that will contribute directly to the organization of an inventory of pairs of shoes where there will be correct and organized records of the purchase of the product.

A billing process will be carried out that allows us to easily select methods and payments and fill invoices in the corresponding way, the program will have maintenance if so warranted but options not specified in advance will be restricted, they will be fully complied with the requirements provided, with the care and respective analysis to meet the needs of the interested party in the system.
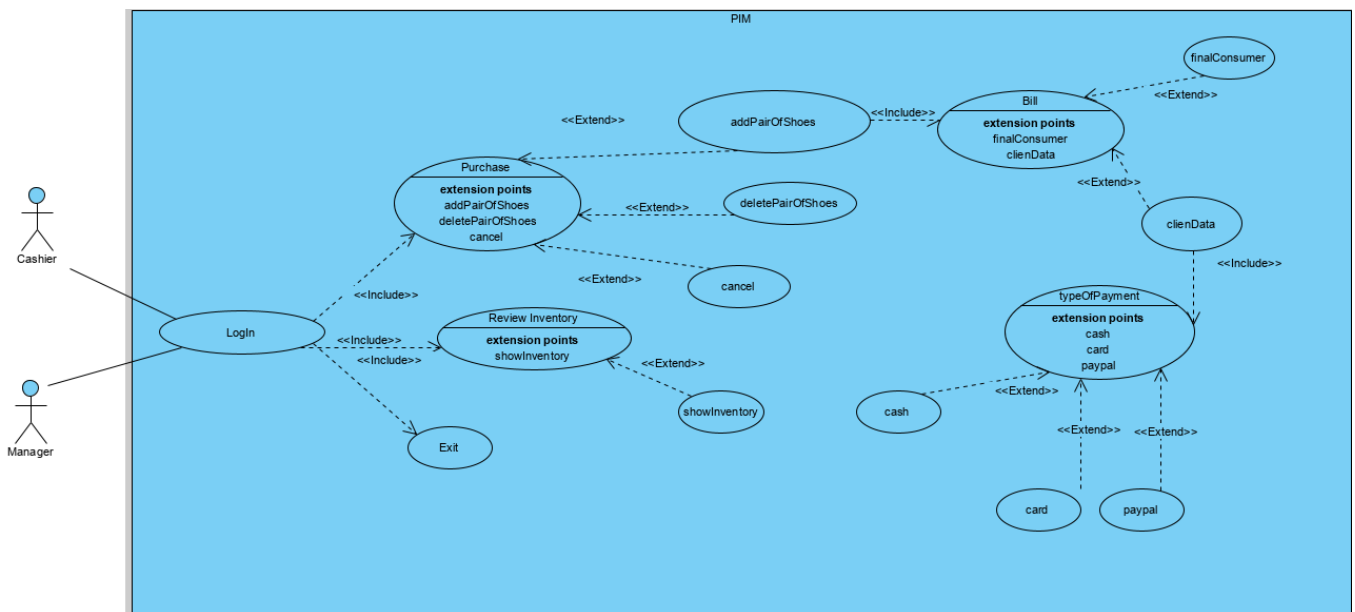
2 General Description

2.1 Product Perspective

The system "PIM" is a product designed to work in physic environments, and the user in charge of manage it, must be related to the work environment for which it is intende.

Thus allowing to select options related to the sale and billing of the products offered, the administrator on the other hand will be able to manage the same options including the one related to inventory.

2.2 Product Functionality

2.3 User characteristics

Type of user	Cashier
Training	Accountability
Activities	Control the system

Type of user	Manager
Training	Administration
Activities	Manage and view

2.4 Restrictions

- Languages and technologies that is used: JAVA.
- The system has to run quickly.
- The system will be built as the client wants.
- The system has to be simple.

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2.5   Assumptions and dependencies

- The requirments have to be stable
- Los equipos en los que se vaya a ejecutar el sistema deben cumplir los requisitos antes indicados para garantizar una ejecución correcta de la misma
- The equipment where the system will be run, have to meet the requirements indicated to guarantee a correct execution.
- It is assumed that users of the software must have knowledge and skills within the scope of their functions.

2.6   Predictable evolution of the system

It is assumed to use basic servers for the use of the program but with the necessary capacity to run on one or more computers.

3 Specific Requirements

Name of the requirement:	Develop the menu
Characteristics:	The principal menu will have with the options: purchase, review the inventory and exit.
Description of the requirement:	The system can deploy submenus depending the option selected in the principal menu
Priority of the requirement: High	

Name of the requirement:	Submenu of the purchase
Characteristics:	In this submenú will unfold options relationated to the product billing process.
Description of the requirement:	The system will allow to the user (cashier) add pair of shoes, delete pair of shoes and cancel the purchase.
Priority of the requirement: High	

Name of the requirement:	Billing process.
Characteristics:	The system will offer different types of invoice process.
Description of the requirement:	The system will allow choosing between making the invoice with data and sending it to the final consumer.
No functional requirement	The payment type menu option is displayed.
Priority of the requirement: High	

Name of the requirement:	Invoice with data
Characteristics:	The system must enter customer data and select their payment method
Description of the requirement:	The client's personal data will be requested to make the invoice and to select their payment methods.
No functional requirement	It will print, company name, invoice number, shoe pair ID, customer name, payment type, total price.
Priority of the requirement: High	

Name of the requirement:	Payment method
Characteristics:	The system will offer the customer to select their payment

	method.
Description of the requirement:	The options will be: PayPal, credit / debit card or cash
Priority of the requirement: High	

Name of the requirement:	Review inventory
Characteristics:	The system will subtract from the inventory products that have already been selected or taken.
Description of the requirement:	Thanks to the ID of the pair of shoes, an orderly inventory will be maintained
Priority of the requirement: High	

Name of the requirement:	Select brand
Characteristics:	The system will assign a brand and an ID to make billing easier and to carry a more ordered inventory
Description of the requirement:	Thanks to this, the warehouse will be able to better order its brands and consequently its inventory.
Priority of the requirement: High	

Name of the requirement::	Exit
Characteristics:	This option will be to exit the system.
Description of the requirement:	By selecting the exit option the system ends its operation
Priority of the requirement: High	