Workshop: Finding Objects, then classes, then model

Problem

To design and implement a user friendly, efficient, and easy to use system for the comprehensive management of daily and monthly information on artisan attendance, products offered, and the prices assigned to each. The system's main objective is to enable the accurate recording and tracking of these key variables, facilitating the creation of a digital inventory.

.Overview

The proposed system seeks to offer an intuitive, efficient, and easy-to-use solution for the comprehensive management of key operational data related to artisans. It focuses on daily and monthly recording of artisan attendance, the catalog of products they offer, and the price of each item. By centralizing and automating this information, the system will enable the creation of a dynamic digital inventory that ensures accurate tracking and organization of resources.

Through this system, users will be able to easily enter, update, and access essential data, helping to monitor artisan participation, track product availability and price trends, and calculate totals such as quantities and values over specific periods.

Background

Based on the 10 artisans, they currently manage several manual lists to record attendance, sales, and products. However, this method presents drawbacks such as human error, lack of real-time updates, and difficulty generating accurate reports. Therefore, the proposal is to integrate a digital system that centralizes and automates these processes, significantly streamlining management.

For example, in the attendance record, the system would record which artisan is required to attend on a given day. If the artisan fails to comply with the assigned attendance, the system would automatically apply a financial penalty, deducting $5 from their account or corresponding inventory. This would not only encourage individual accountability but also reduce the administrative burden of manually tracking violations and

penalties.

Regarding sales, the system would allow for the immediate recording of each product sold. At the end of each month, an automatic count of all units sold by each artisan would be performed, integrating this information directly into the corresponding inventory. This way, it would be possible to update product inventory in real time, calculate the revenue generated by each artisan, and generate monthly sales reports without having to manually process the data.

Table 1-Example of products by artisan

Artisans	Products	Amount	Unit price
Lourdes T.	Cedazo	8	$ 12
	Cedazo Llavero	5	$ 3.5
	Guanga	1	$18
	Cepillos	12	$ 4
Guido P.	Cedazo Pichca	1	$37
	Cedazo Sucta	2	$30
	Cedazo Parejo	1	$27
	Jarabe Agave (500ml)	5	$10
Narcisa A.	Cintillos	10	$5
	Cedazo	5	$15
	Aretes	12	$3
	Correa	1	$20
Leonor C.	Cuchara	2	$22
	Cedazo	5	$10
	Sombrero	4	$6
Katty L.	Aretes	10	$4
	Pulsera	35	$1
	Llavero	13	$2.5

Table 2-Example of stock and sales of artisans

Month: January					
Artisans	Products	Stock	Unit price	Sales made	Current stock
Lourdes T.	Cedazo	20	$ 12	14	6
	Cedazo llavero	10	$ 3.5	5	5
	Guanga	10	$18	2	
	Cepillos	10	$ 4	7	3
Guido P.	Cedazo Pichca	10	$37	1	9
	Cedazo Sucta	10	$30	2	8
	Cedazo Parejo	10	$27	1	9
	Jarabe Agave (500ml)	20	$10	5	15
Narcisa A.	Cintillos	10	$5	10	0
	Cedazo	10	$15	5	5
	Aretes	20	$3	12	8
	Correa	10	$20	1	9