

This problem set is STRICTLY for PSE Tutorial-related matters only.

UE-CCSS R&D, 2023.

INSTRUCTIONS:

1. You must solve all items.
2. Create all modules and forms described.
3. Data from Module 1 must be used in the next modules for testing.

SUPPLY MONITORING SYSTEM

Create a system that contains the following modules:

1. A module that can add, edit, delete, and search an item information.
 - Supply ID
 - Supply Name
 - Category ("Snacks", "Beverages", "Toiletries", etc.)
 - Price
 - Stock (1-50)

A product ID is generated by combining the first three letters of the category, the first five letters of the supply name, a random 4-digit integer, and the receive date of the supply (ddMMMyyyy).

Supply Information	Generated ID
Crossini Rolls Chocolate Snacks January 5, 2024	SNA-CROSS-3859-05JAN2024

2. A module that accepts a supply ID, quantity, and cash amount and computes the total amount to be paid and change, as well as to update the supply table based on the transaction.

The service charge is calculated based on the subtotal and the number of supplies requested.

Quantity	Service Charge
1-5 units	1.5%
6-15 units	3%
15+ units	5%

SAMPLE DATA

Fields	Values
Supply ID	SNA-CROSS-3859-05JAN2024
Supply Name	Crossini Rolls Chocolate
Category	Snacks
Receive Date	January 5, 2024
Stock	7
Price	Php 105.00

Supply ID	SNA-CROSS-3859-05JAN2024
Quantity	3
Cash	Php 500.00

Description	Qty	Unit Price	Total
Crossini Rolls Chocolate	3	Php 105.00	Php 315.00
Service Charge		Php 4.73	
Total Amount		Php 319.73	
Cash		Php 500.00	
Change		Php 180.27	

[Supply quantity becomes 4.]

Fields	Values
Supply ID	TOI-MODES-1432-09JUN2023
Supply Name	Modess Regular Cottony Soft with Wings
Category	Toiletries
Receive Date	June 9, 2023
Stock	15
Price	Php 127.40

Supply ID	TOI-MODES-1432-09JUN2023
Quantity	3
Cash	Php 300.00

Insufficient payment.

[Transaction will not proceed. Supply quantity remains 15.]