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CpE-1C

**Final PIT Problem Proposal**

* **Title** Bar POS System
* **Problem Description**
  + Create a Bar POS System software that is functionally similar to those used in bar businesses, restaurants and cafes. Its most used feature will be the real-time computation of the total amount to be paid by a customer and printing/exporting of the customer receipt in PDF file. It will allow the users (bar management) to check the inventory of their products, summary of sales, and record of orders. All the transactions/orders and product details will be recorded on a database.
* **Storage of Data**
  + SQLite Database
* **Data to be Stored/Retrieved to/from the Database**
  + Products (id, name, price, quantity)

*Since this is a Bar POS, the products will be alcoholic beverages and Grab (Pulutan)*

* + Customer (id)
  + Orders (id, customerID, orderDate, amountPaid)
  + Users (id, username, password)
* **Required Processes/Computations**
  + Computation of **total amount to be paid** and **change** given the input **cash**
  + Update **number of stocks** left after each order
  + Inventory
    - Product Management
      * Edit Product Details (name, price, quantity)
      * Delete Product
  + Summary of Sales
    - Shows Orders table that contains:
      * Date & Time of Order
      * Order ID
      * Customer ID
      * Product Ordered & Quantity
      * Amount Paid
* **Output**
  + Customer Receipt printed/exported as PDF file after Payment, contains the following:
    - OrderID
    - CustomerID
    - Product ordered, quantity, total
    - Total amount paid
    - Cash & change