Database Programming

Memo

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| To: | Chris Cusack |
| From: | William Balingit |
| Date: | 11/08/2023 |
| Re: | Project Proposal – Inventory Management for Rinzler Grocery |

I am writing to propose the development of an Inventory Management System for Rinzler’s Grocery Store. Employees may manage stock levels of various products, and a product can be managed by multiple employees. Stocks may increase or decrease when either restocked or depleted.  
  
**Business Rules:**

1. There will be a set minimum and maximum stock level threshold for each product, going below or above such thresholds will display a message on a status bar indicating such events. We will use 20% and 120% of the stock levels of each product as minimum and maximum level thresholds, respectively. The stock level floor and ceiling are 0% and 150%, respectively. Any value that will go under or over these will prevent or deny any modification in the inventory.
2. Users will have different levels of access based on their Position set in the Employees’ table. Stock Clerk can update changes for each product while an Administrator can do the same with additional features of adding or removing product entries. All other positions can then only view data.

**Employees Table Columns**

* EmployeeID
* EmployeeName
* Position
* Email
* Phone
* Username
* Password

**Products Table Columns**

* ProductID
* ProductName
* Category
* Unit
* Price
* State (Understocked or Overstocked)

**Stock Logs Table (Junction) Columns**

* StockLogID
* EmployeeID
* ProductID
* StockLogDate
* ExpirationDate
* Quantity
* StockAction (Restock or Deplete)