Inventory Control System- Stock Valuation.

Business Problem:-

A department store requires Stock valuation for its inventory management. The following features needs to be implemented.

1. Maintaining stock.
2. Receive new items that come from purchase dept.
3. Valuating periodically when asked in audit.
4. Raising requisition/order of items whose stock in hand goes **below reorder level**.
5. Providing screen based queries and searches of items.
6. Providing reports on stock in hand and order raised and good received or issued during given period.

The possible suggested structures of database files (PFs)

1. **Stock Master**
    a. Item Code **UNIQUE ….. this field should make master detail relation.**
    b. Item Name
    c. Unit of measurement (KG/Liter/number quantity)
    d. Stock in hand (actual quantity)
    e. Reorder level. (The minimum qty the store must have in hand as decided in consultation with sales/purchase/workshop.
    f. Price (Current market)
    g. Value

    Note: A reorder level specifies minimum quantity for any item that must be in store so that sales/production does not get affected. When stock in hand goes below reorder level a “purchase request” must be raised.
2. **Goods Received**
    a. Goods Received Note (GRN)
    b. Item Code
    c. User/Employee (who received the item)
    d. Date, Time of receipt (use time stamp or separate Date / Time fields. Implicit Value)
    e. Request No.
    f. Quantity received.
    g. Price.
3. **Goods Issued**
    a. Issue slip no (ISN internal to store . Unique for “issue”)
    b. Item Code
    c. User/Employee (who received the item)
    d. Date/time

    e. **Quantity issued**
4. **Ware/ Tare entry file**
    a. WareTareid
    b. Item Code
    c. User/Employee who makes the entry
    d. Reason
    e. Date/time
    f. **Quantity Loss**
5. **User File ---** Only specific employees of store department will have access privilege to this system. Their user /password credentials will be stored in this file. They have to login to stock Valuation system by these credentials.
    a. User (EMPID)
    b. Password.

The application must have following modules for each of these files.

1. Entry. **Must update master quantity when goods are received or issued.**
    a. **5 entry programs for 5 physical files.**
    b. **Entry to Recv,issu, ware-tare must update master to update stock-in-hand**
2. Query (Subfiles)
    a. Inventory listing –master.
        i. The display should sort on any column where user presses enter on any column heading.
        ii. The query result (subfile) should be editable with options like 2=Change 4=Delete F6 to add new item in stock.
    b. Goods received during given period (date from date to) in control rec format
    c. Goods issued of a give item code or period
    d. Items lost / damaged in given period
    e. List items below reorder level at the given time.(Stock < reorder) list only those items in subfile.
3. Reports
    a. Print list of items in the descending order of their movement. FMCG
    b. Goods Received in a given period.
    c. Print/Raise Stock requisition to purchase department of the items going near or below reorder level. This about human intervention for additional quantity
4. Other Requirements.
    a. Integrate entire application through a menu.
    b. Most of the input fields must have field specific help in window.
    c. Use standardized field/title/function key locations.
    d. Use standardized File/Field/Variable/Procedure names.
    e. **Goods Received and Goods Issued must accept the Item Code that exists in Stock Master.**
    f. Application must be user friendly to the possible extent.

Try to use most of the topics you learned-**Subfiles , query subfiles , *open query file , sql cursor,Dynamic sql, stored procedures, window, window subfile***

Evaluation Criteria with Score

Design and use of various technical features taught during training- • Evaluate whether the design Document clearly outlines the projects objectives and goals . • Evaluate if requirement analysis has been done in detail • Give weightage to implementation of various technical modules taught and not a simple design	**5**
Data Validation, Error handling, Debugging. • Check whether the trainees have done all necessary data validations and handled all errors gracefully. • Evaluate their debugging skills and understanding of positive and negative scenarios.	**10**
Accuracy of Output and Stability of Application • Give weightage to how many functional requirements have been met and the accuracy of the output • No Critical defects	**10**
Presentation • Evaluate whether the trainee can clearly articulate the areas that he/she has implemented and also aware of the entire Project • Evaluate soft skills as well as technical know- how	**10**
Viva • Evaluate overall understanding of important topics which might not	**20**

have been covered in this capstone Project	