Inventory Management System
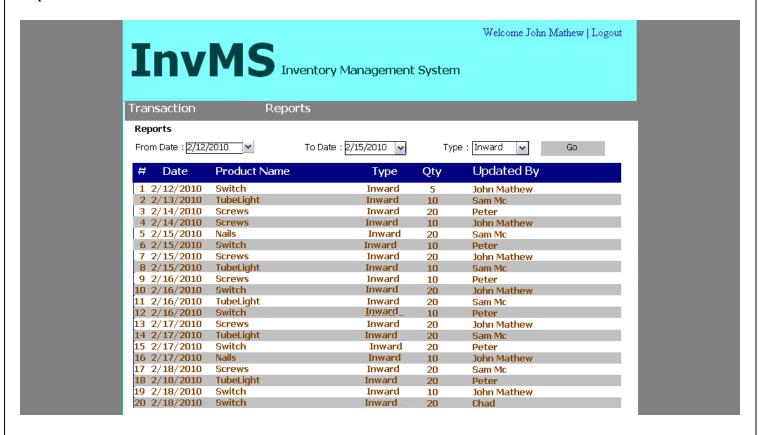
Login Screen

Transaction Page

Report

DB Schemas

Users

Field Name	Type	Width	Description
UserID	Int (Auto Generated)		Primary Key of the Table
UserName	Varchar	50	User Name to login
Password	Varchar	25	Password to Login
FullName	Varchar	255	Display Name of the User
IsActive	Boolean	1	Active or Inactive Status
Category	Varchar	50	Purchase or Storekeeper

Product Master

Field Name	Type	Width	Description
Productid	Int (Auto Generated)		Primary Key of the Table
ProductName	Varchar	50	Product Name
AvailableQty	Long		Quantity (Available)

Transaction

Field Name	Type	Width	Description
TransactiontID	Int (Auto Generated)		Primary Key of the Table
TransactionDate	Date		Date
ProductID	Int		Foreign Key to productMaster's pid
TransactionType	Varchar	5	Either IN or OUT
Qty	Int		Quantity (Transaction)
UpdatedBy	Int		Foreign key to user master's uid

Roles:

Home Page / Login Page
- Start the Project with the Login Page
- Allow only Active Users
- Login with the Existing User authentication who has Category as Storekeeper
- User Registration is not Required
- After Login the storekeeper area should be shown

Common Functionalities

- Header section & Footer section is common
- In header -> Logged in User Name should be shown (UserFullName)
- Near to that Logout Link which should clear the Logged in information.
- Menu Items as Transaction & Reports, it should be linked to the below mentioned pages.

Transaction Page

- This is the Landing Page after login.
- It should list down the current entry from the database
- StoreKeeper can enter data for Inward Good & Outward Goods (Inward for Purchae, Outward for Production)
- Anytime in the list Storekeeper can add a transaction with the fields (Transaction Date, Product Name, Available Quantity, Type, Quantity)
- When storekeeper clicks "add" button, a new dynamic row should be created with date picker control, dropdown list products, available quantity, transaction type and quantity. Available Quantity is auto filled based on the product selection.
- Available Quantity has to be updated when an Inward Transaction is entered.
- Transaction Quantity has to be validated not to exceed the Available Quantity when the Transaction is for Outward.
- Available quantity field is read only
- The transaction quantity is editable
- The transaction type list must contain either INWARD or OUTWARD
- When a dynamic Row is shown, last column has to show the Save & Cancel Button
- Any Transaction can be Edited or Deleted from the List.

- Based on the Type that is getting Edited or Deleted, the Product Master has to be Updated with the Available Quantity. Eg. Deleting the INWARD Transaction should Subtract the Available Quantity with the Transaction Quantity.
- Empty Record should not be saved.
- While Adding or Editing the UpdatedBy field has to be filled automatically based on the Userid who logged in.

Report Page

- This is the page shown when the Reports Menu is clicked.
- To Generate the Report, below mentioned inputs has to be provided.
    - Transaction From Date
    - Transaction To Date (Validate this date with the From that that it should be always equal or Greater)
    - Transaction type is to show the Inward & Outward Transactions.
- Result of the above mentioned criteria, show the fields as Serial No., Transaction date, product name, quantity and updatedBy
- Update by is captured while Adding or Editing. This should be the fullname of the user.