Web Application Development in .NET

Project -02: Point of Sale (POS)

Modules: Every Feature on Setup and Operation Module should have (Create, Update, Delete, View and Search Operation)

1. Setup Module
    a. Item Category
    b. Item
    c. Expense Category
    d. Expense Item
    e. Employee
    f. Organization
    g. Outlet
    h. Party

2. Operation Module
    a. Purchase
    b. Sales
    c. Expense

3. Report Module
    a. Purchase
    b. Sales
    c. Stock
    d. Expense
    e. Income

Description:

❖ Item Category Setup:

In this Page, user can setup an Item Category for setup Item. First time, when the page is load, by default **“Root Category”** will be selected, and **Parent Category Dropdown** will be hidden, and **Code** will Load **Automatically**, like as (**XXX**), user provide Category Information and can be change the code, but ensure that, code must be **Unique,** user provide one or more image, and instant preview after select any image in the bellow section.
If user want to create This Category as a **Child Category,** Then user will select the **Child Category** Radio button, after click the button, **Parent Category Dropdown** will be display, and all setup category will be load in to the dropdown, and user must be select any Parent category as a parent of this Category.
After successfully submission, Saved category will load under the setup page (see the MOQ).
(User can Edit, Delete from here)**
Note: Name and Code is must be unique & required, if it is a child category, then parent also required.

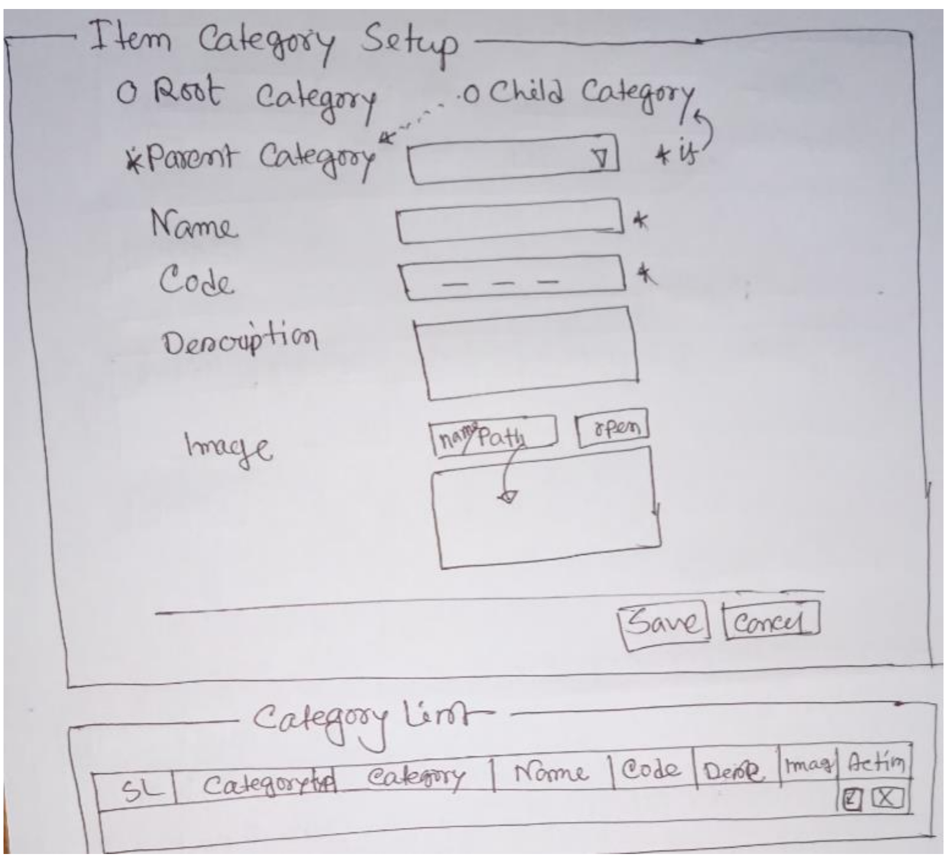
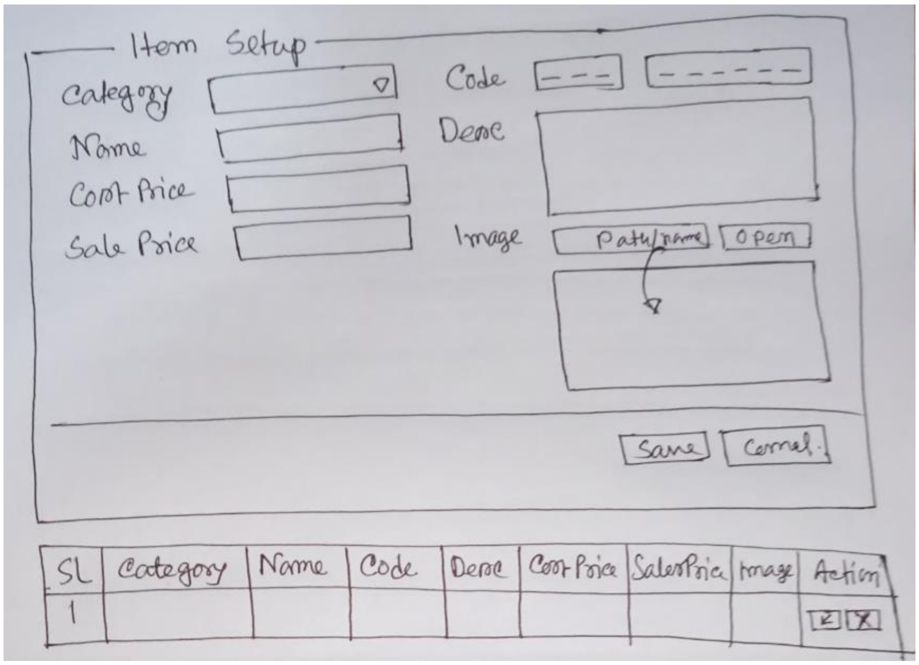


Fig: Category Setup

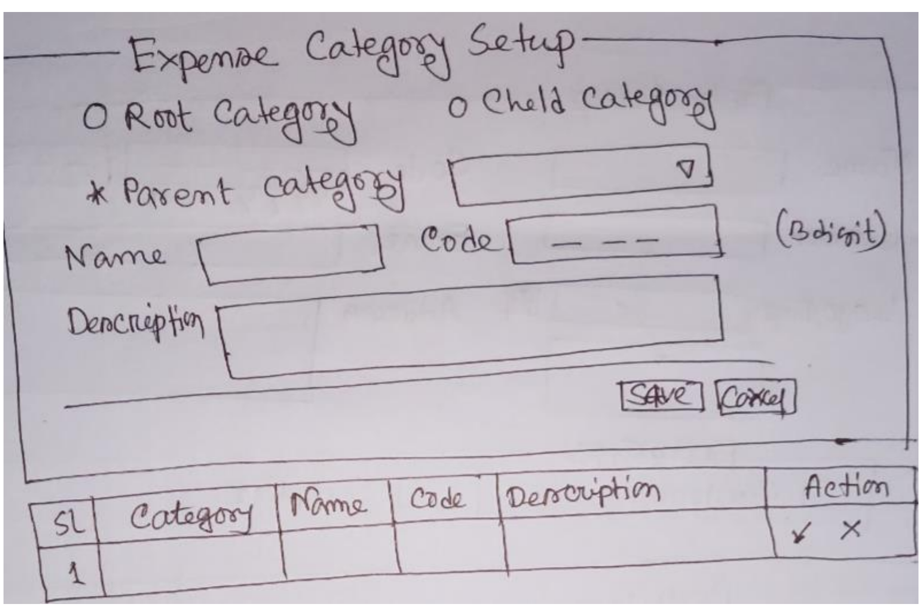
❖ Item Setup

In this page, user can setup an Item, for that when user select any category from the **category dropdown**, **code** will automatic load based on category **Code, { (XXX) From category, (XXXXXX) }****
And other thing same as category.
Note: Name and Code must be unique & required based on Category, (FUR-000001, COM-000001)**



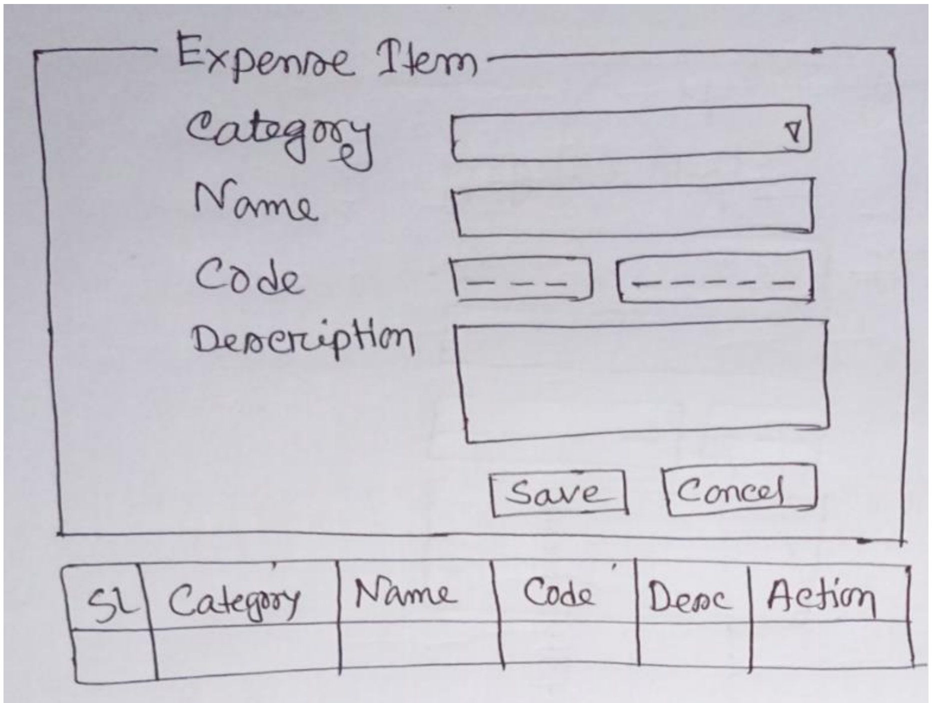
❖ Expense Category

In this page user can setup a Category for Setup category Item, This setup page's requirement same as Category Setup page. Please follow the category setup requirements.



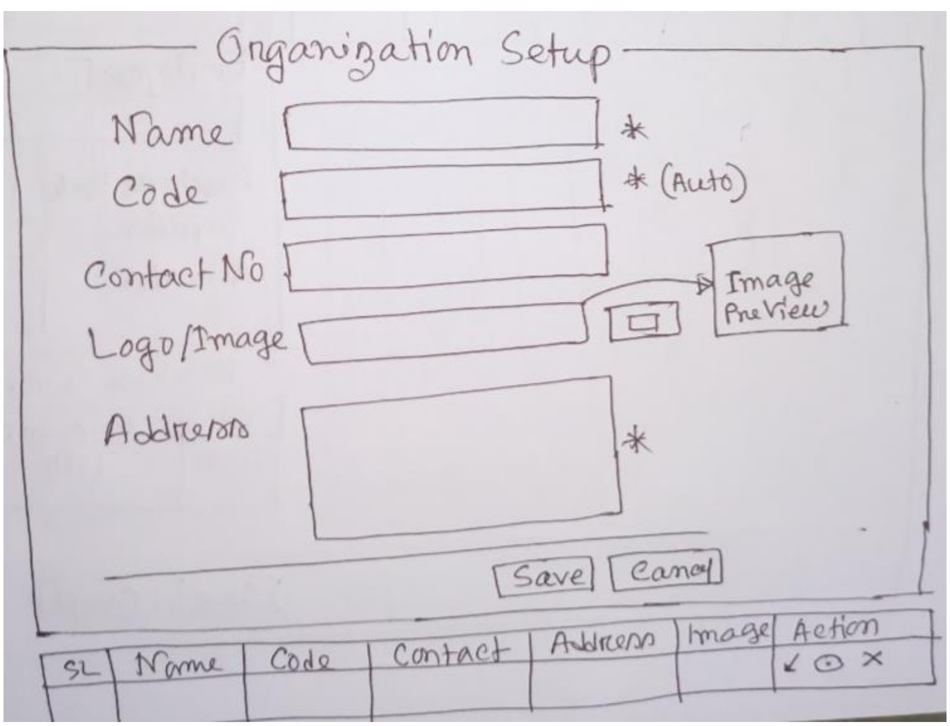
- **Expense Item Setup**

  In this page, user can setup an Expense Item, requirement same as **Category Item** Setup.



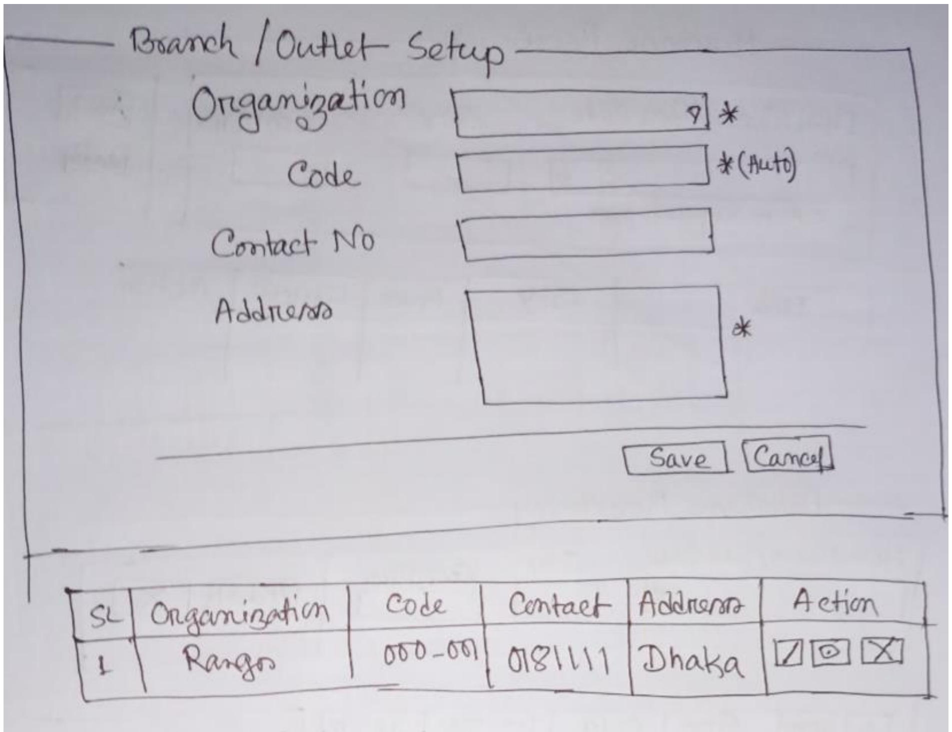
- **Organization Setup**

In this page, user can setup an **Organization.**
Note: Name, code and contact No is required & unique.



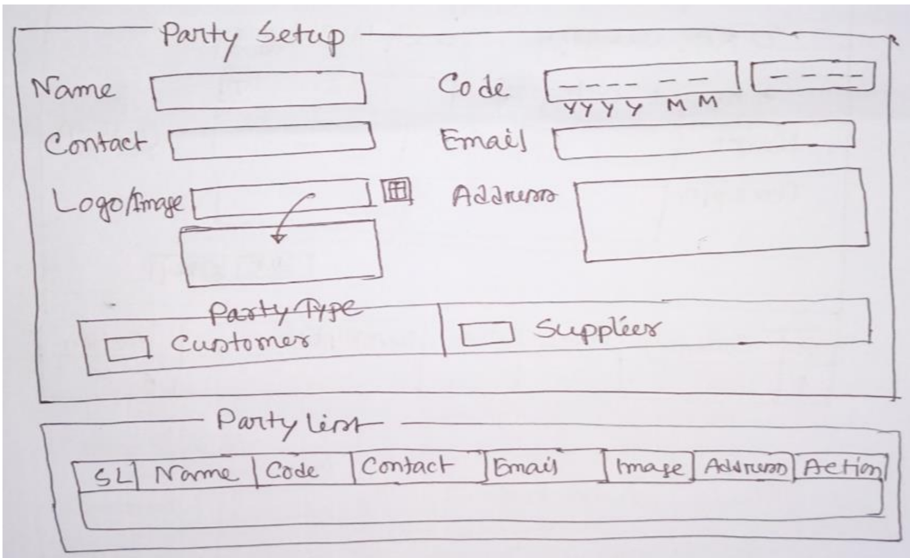
- **Outlet/ Branch Setup**

  In this page, user can setup an **Outlet**.
  Please be noted: Here **Name** field is missing. So **Name** field will add bellow the **Organization**.
  Note: Organization, Name, Code, Contact No, Address are required. Name, Code, and Contact No Unique based on Organization.



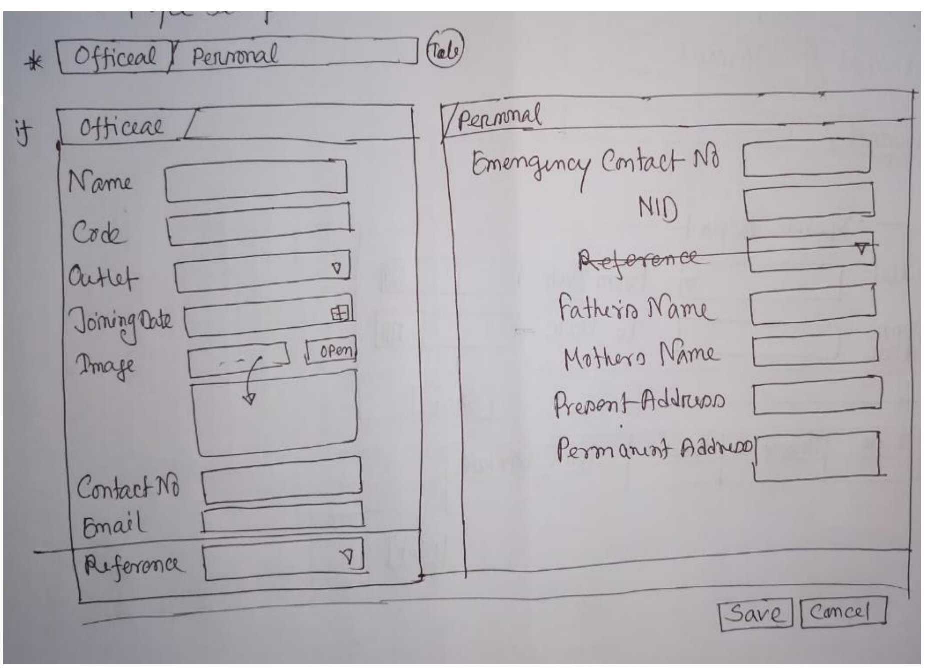
❖ **<u>Party Setup:</u>**

In this page, user can setup a **Party**, there also have two **checkbox of Party Type**, which means any **party** can be a **Customer** also a **Supplier.**
Note: Name, Code and Contact No are required & Unique.



❖ **Employee Setup**

In this page, use can setup an Employee, for that, when load the page, user can see the **Official** Tab, and **official Form** also loaded in the bellow and **Personal form** will hide, but when user change the tab to **Personal** tab, then **Personal information form** will show the bellow, and obviously **Official form** will hide.
Note: Name, Code*, Outlet, Contact No* and NID are required.



- **Operation Module:**

  In this page, user can purchase one or more Item at a time. Page layout Divided by Two sections, 1- Purchase Header, 2- Purchase Details

1- Purchase Header, user select an Item from Item dropdown list, Cost Price will be suggested as given in item setup. Cost Price can be changed further, by default quantity will be 1, after clicking the add button, item will be added with quantity and Cost Price in the Purchase Details Section as u can see the bellow image. There should have Edit & Delete Button in Every details Row, thus user can edit or delete the item before submit.

2- In Employee Section: Select the Outlet/ Branch, Employee will be loaded, because we setup Employee Based on Outlet.

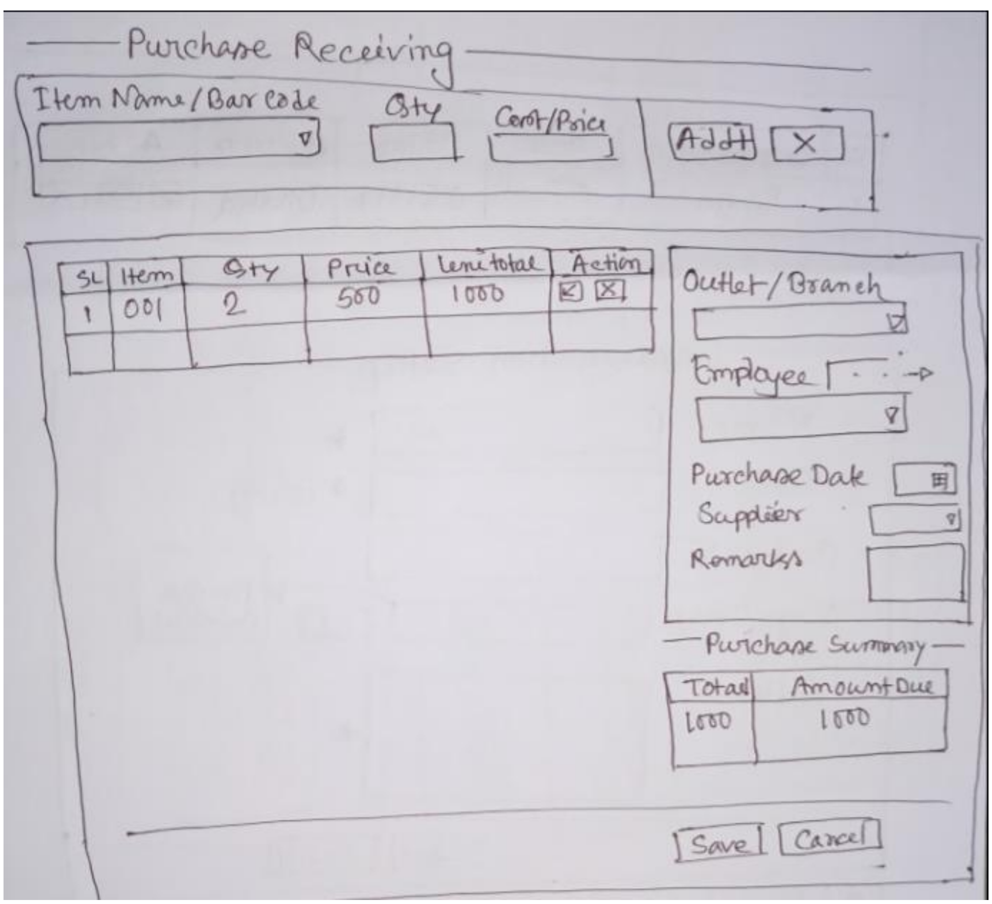
3- Purchase Date should be by Default Today's date, and must be provide a date picker, thus user can select any date from calendar.

4- In Purchase summary section: Total Amount and Total amount Due will show, (by default Total due = total amount), Total Due can be changed by user but cannot be greater than Total Amount.

After completed user Click the save and purchase will be saved with relevant information, and after successfully Submission, redirect to Details (View) Page. User can download Purchase information in pdf format from view page.

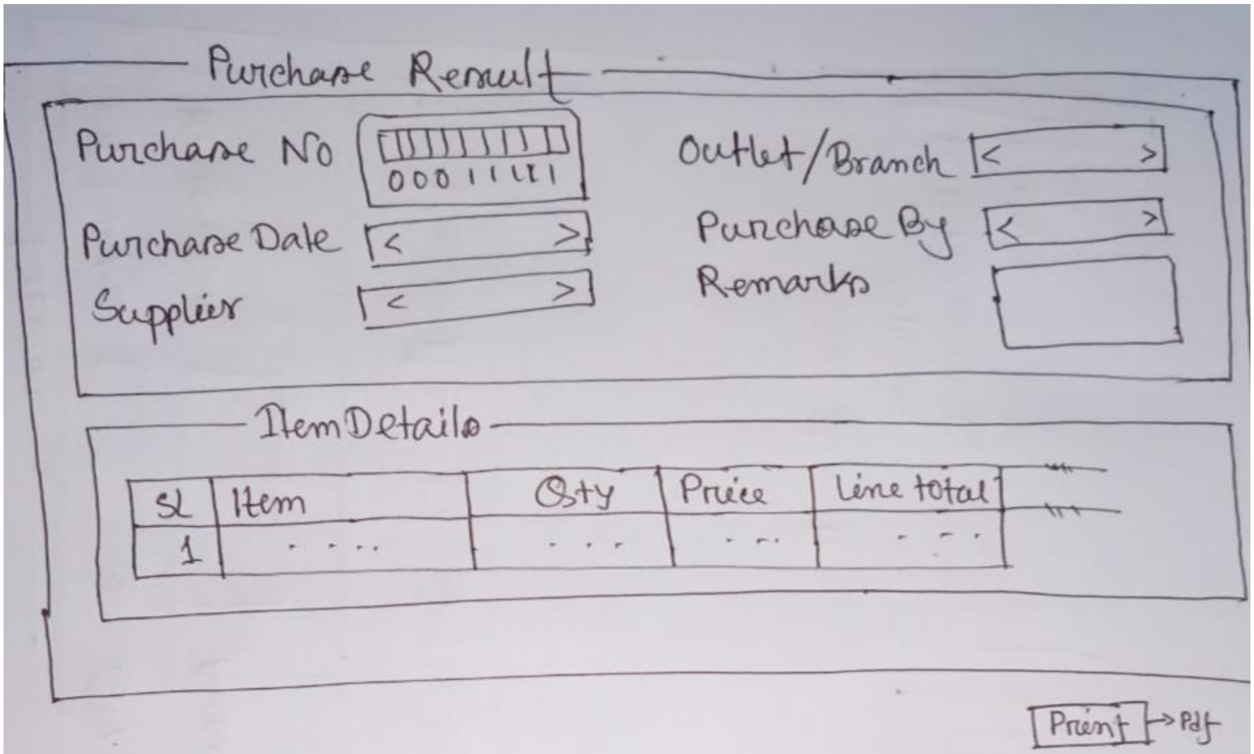
After Successful purchase operation the items will be stored in stock thus in further stock report item will be shown.

Note: Dropdown load with Item Name and Barcode, and user can search from dropdown. All validation will check. Without any Details, user can't create any purchase. Purchase Date, Supplier, Outlet, Employee all are required.



This is Purchase Detail/ View page.

Optional: From here generate bar code which will consist item code as bar code, item name and sales price as per item quantity .

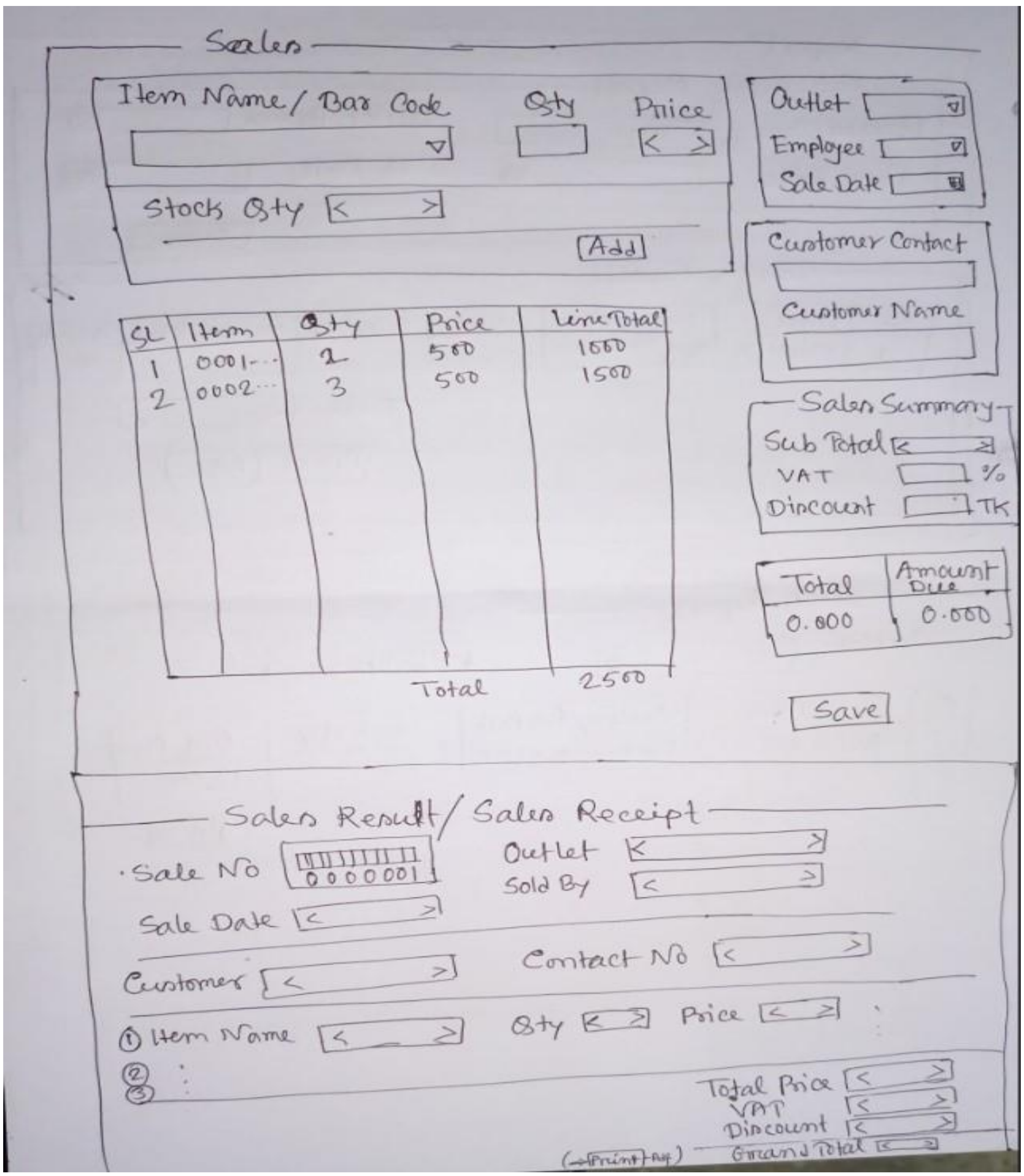


- ❖ **Sales Operation**

Sale operation similar to as Purchase, you can create both UI as any one layout system
While item is selected the sales price of item should be loaded as price which can not be changed by user i.e. its read only field.

Sub Total = total item qty * unit price.
VAT Amount = (Sub Total – Discount Amount)*VAT %
Total Amount = SubTotal – Discount Amount(if any) + VAT Amount.

Note: Outlet, employee, sale date all are required. If user provide VAT or Discount, it will apply when click the save button. You can see the Sales Result/ Details/ View the image, it will show after successfully sales creation. And all are same as purchase.

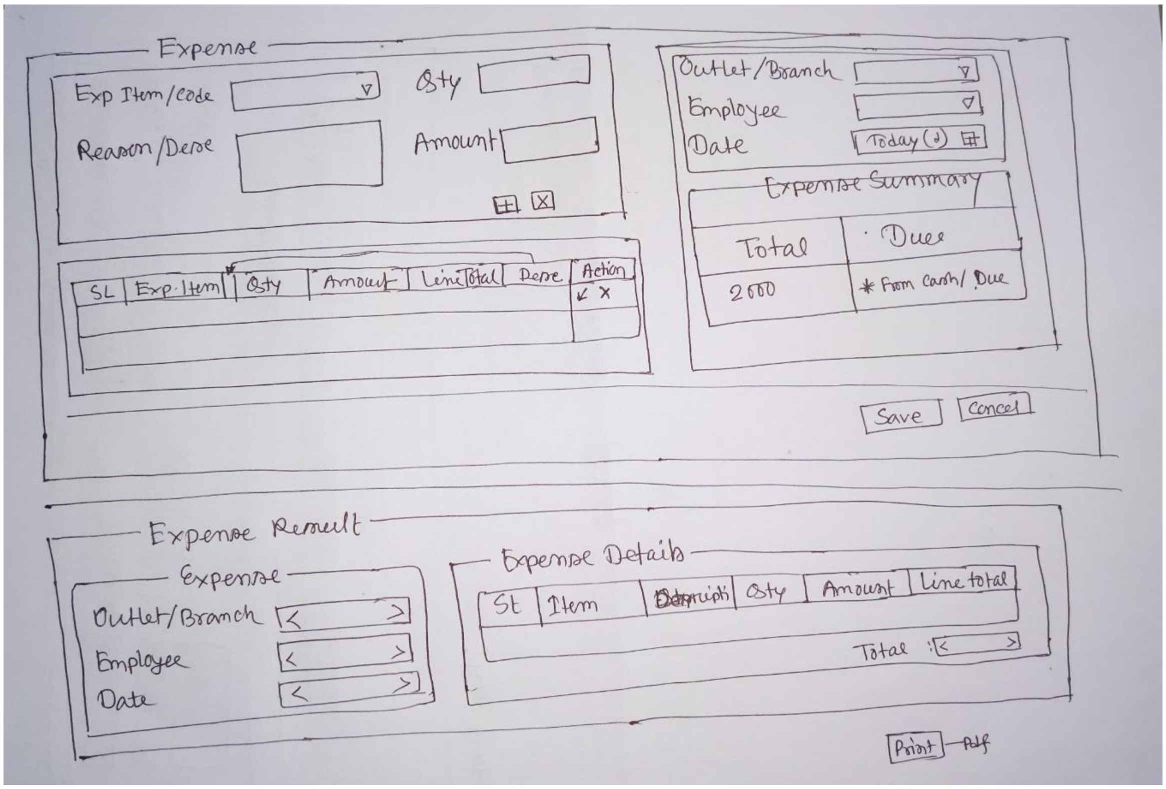


- **Expense Operation**

  For a Sales Center there is various kinds of expenses which recorded for the service center expense. In this page user will enter expense transactions.

  Every required fields are same as Purchase.

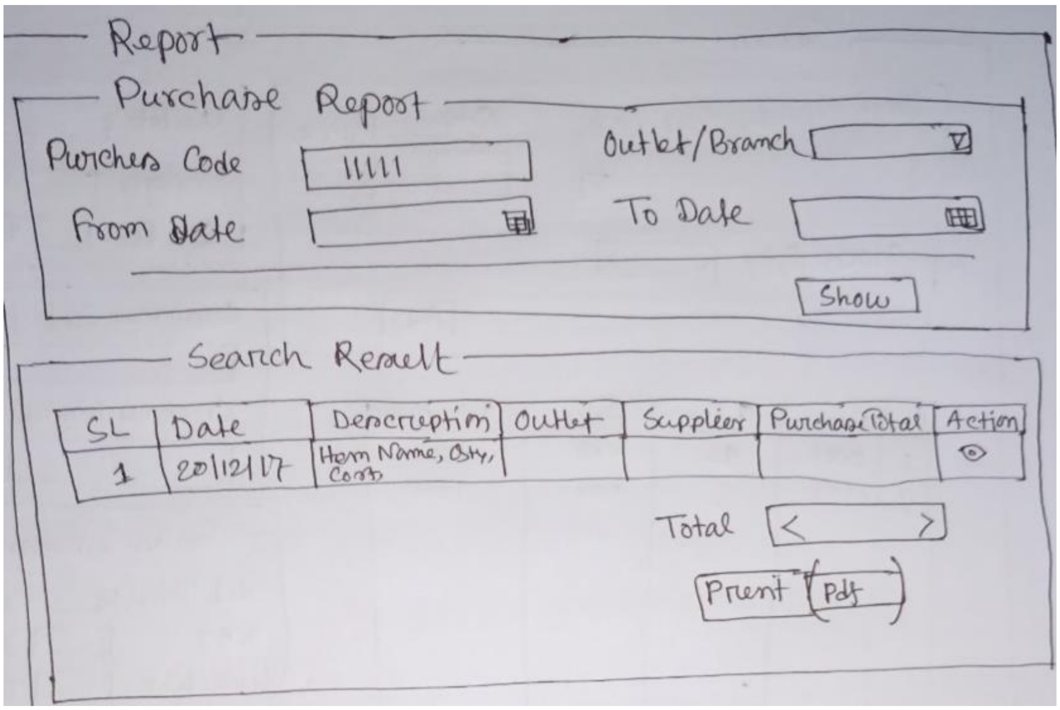
  Note: From Cash amount will show (Sales-(Purchase + Expense) =Cash)**



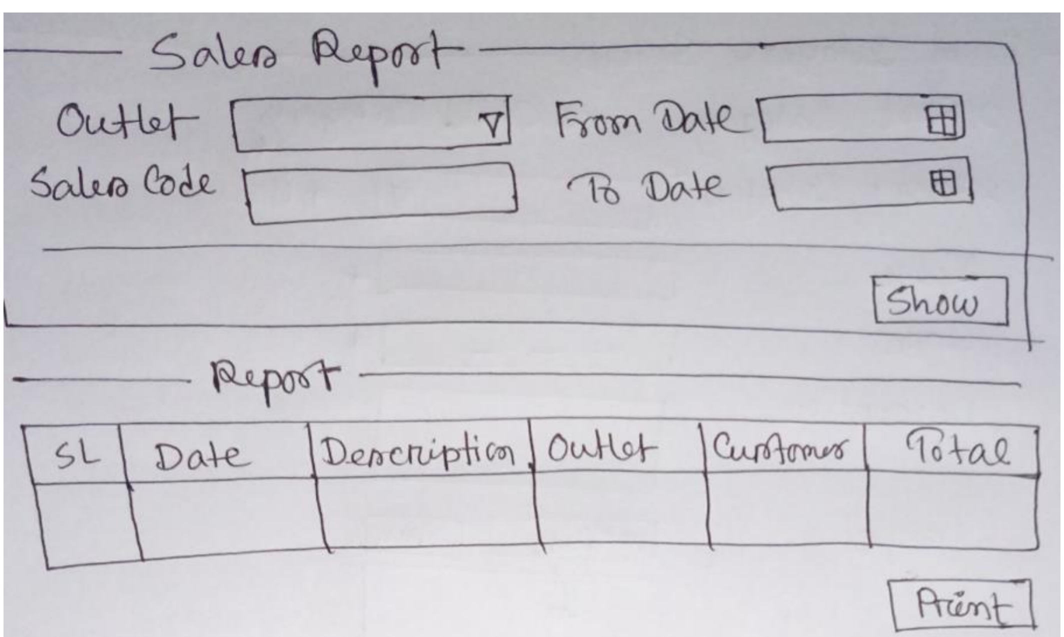
- **Report Module**

In this page, user can see the purchase history, for that user can search by Purchase Code or Outlet or From Date or To Date or All. After clock the show button, purchase will load and Total Amount will show in the bellow of the table.

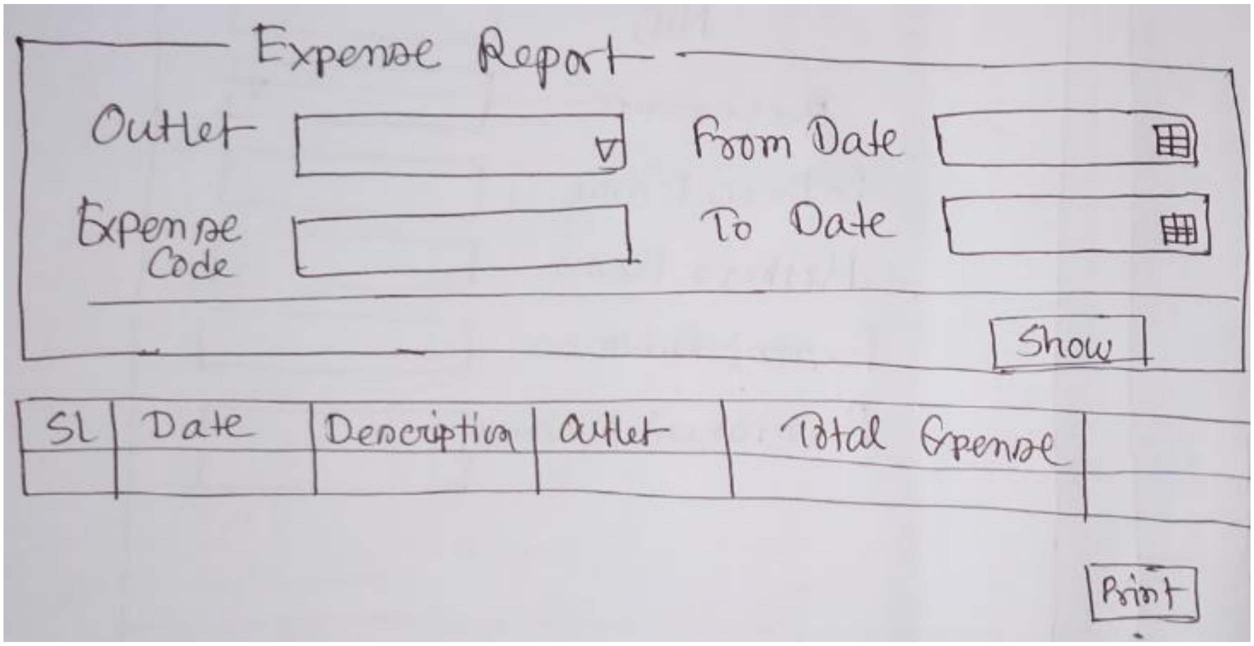
Note: View, Edit and Delete Button show in every row, user can edit, delete and view from here, final user can save this result as pdf.



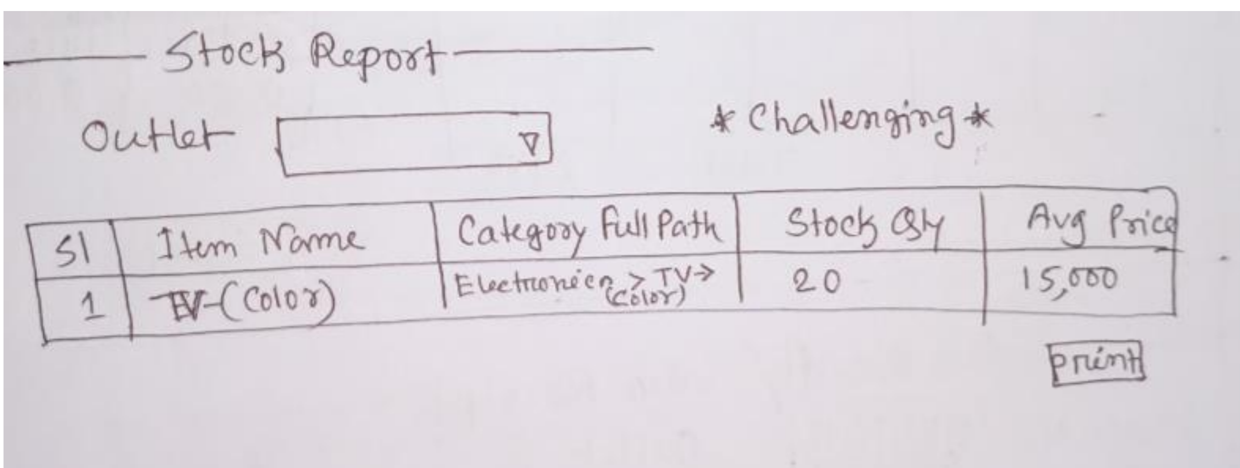
- **Sales Report Also same as Purchase report. This layout must be same as purchase result, sales total should be every row and Grand Total amount will be show in the bellow section.**



- **Expense Report Also same as Purchase report. This layout must be same as purchase result, sales total should be every row and Grand Total amount will be show in the bellow section.**



- **Stock Report**
  In this page, user can see the total stock summary based on Outlet.
  Note: Item Name and Code, Category Full Path (Electronics > Samsung > Mobile > Smart Phone > Galaxy), Total Stock Quantity and average price.



❖ **Income Report**

In this page, user can see the income report based on search criteria. User will select an Outlet *.
From Date* To Date* must provide, and after click the show button, Purchase , Sales and Expense Report will show, and here expense table is missing, so you should add this.

Note: Summary: Total Purchase, Total Sales, Total Expense, and Total Profit