

Phase 6: User Interface Development

1. Lightning App Builder

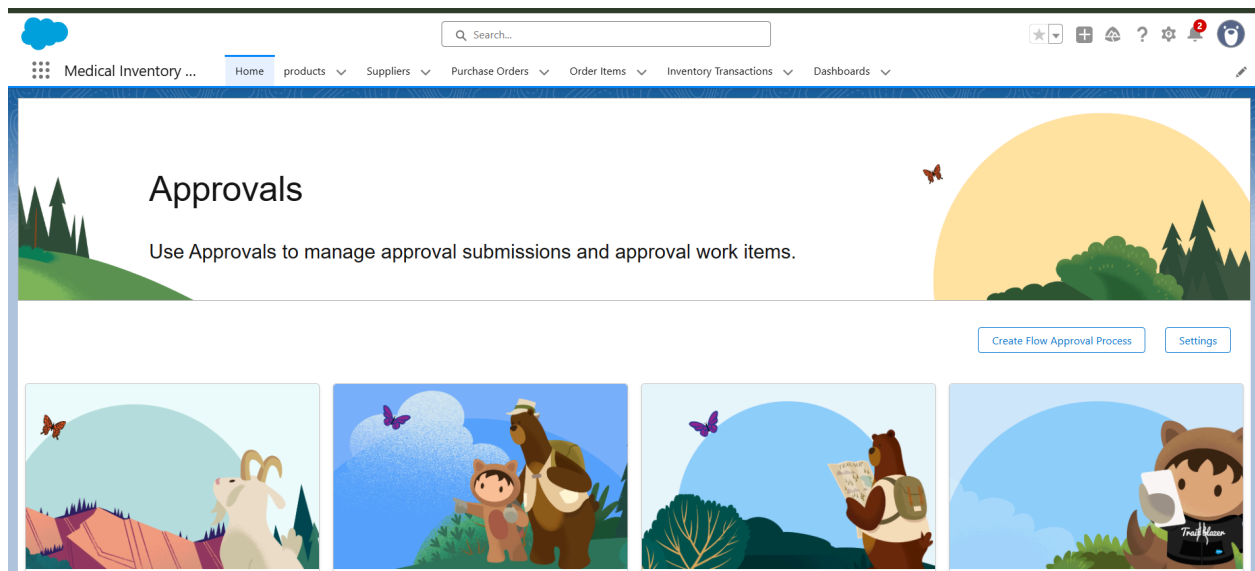
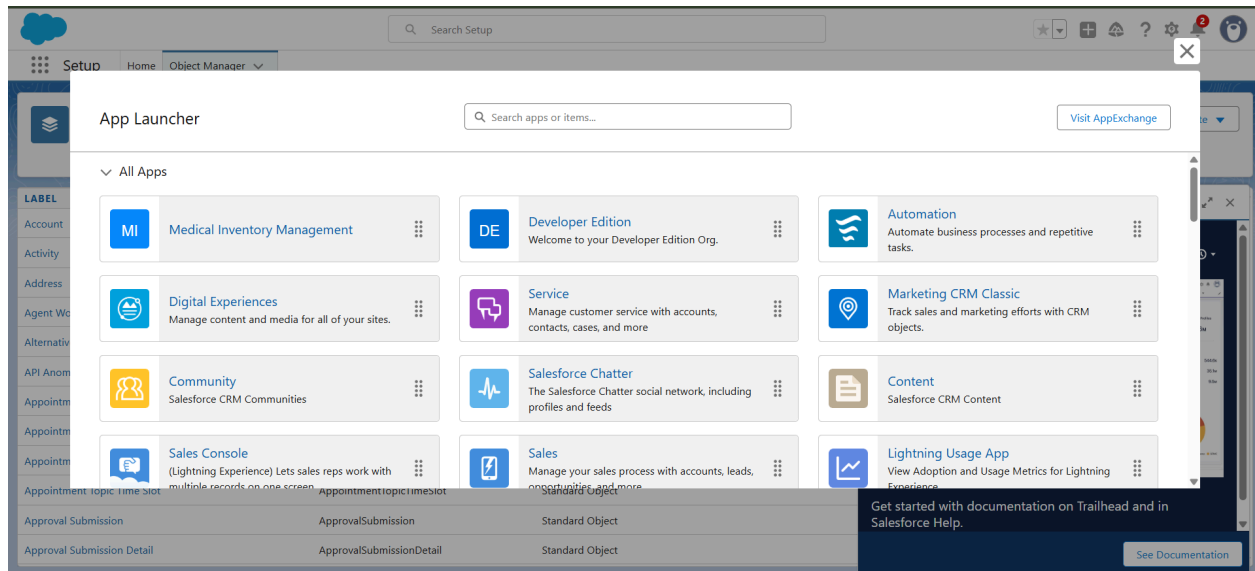
Explanation:

Lightning App Builder is used to design custom applications that combine data, components, and dashboards under a unified workspace.

For this project, a **custom Lightning App** was created called “**Medical Inventory Management**”, designed to help users (Inventory Managers, Purchase Managers, etc.) easily navigate between Products, Suppliers, Orders, and Reports.

App Configuration:

Setting	Value
App Name	Medical Inventory Management
App Branding	Custom Logo & Blue Header
Navigation Style	Standard Navigation
Items Added	Home, Products, Suppliers, Purchase Orders, Order Items, Inventory Transactions, Dashboards



2. Record Pages

Explanation:

Record Pages were customized to display relevant information and related data for each object using Lightning App Builder.

Use Case: Product Record Page

Customizations:

- Components Added:
 - **Highlights Panel** for Compact Layout view.
 - **Related Lists** (Order Items, Inventory Transactions).
 - **Tabs**: Product Details, Stock Info, Related Orders.
- Filtered Related List: Shows only “Stock Out” transactions for quick view.

The screenshot displays a web application interface for medical inventory management. A modal window titled "Information" is open, showing a form for adding or editing a product. The form includes fields for Product Name, Product ID, Category, Unit Price, Minimum Stock Level, Available Stock, Expiry Date, and Seller. The "Owner" field is populated with "Yash kumar". The background shows a sidebar with a "Recently Viewed" section containing one item, "paracetamol". The top navigation bar includes a search bar and various icons. The bottom of the modal has "Cancel", "Save & New", and "Save" buttons.

Medical Inventory ... Home pr

Search...

products

Recently Viewed

1 item • Updated a few seconds ago

☐ Product Name

1 ☐ paracetamol

Information

* Product Name

Owner

Yash kumar

* Product ID

* Category

--None--

* Unit Price

* Minimum Stock Level

* Available Stock

* Expiry Date

* Seller

Search Sellers...

Cancel Save & New Save

Import Change Owner Assign Label

Settings View Refresh Edit Add Filter

Medical Inventory ... Home products Suppliers Purchase Orders Order Items Inventory Transactions Dashboards

Product_c paracetamol

Related Details

Product Name	paracetamol	Owner	Yash kumar
Product ID	145		
Category	Medicine		
Unit Price	₹50		
Minimum Stock Level	10		
Available Stock	100		
Expiry Date	10/11/2033		
Seller	Co-Founder		
Supplier_c	MediCare Plus		
Created By	Yash kumar	Last Modified By	Yash kumar

10/19/2025, 5:22 AM

Activity

Filters: All time • All activities • All types

Refresh Expand All View All

Upcoming & Overdue

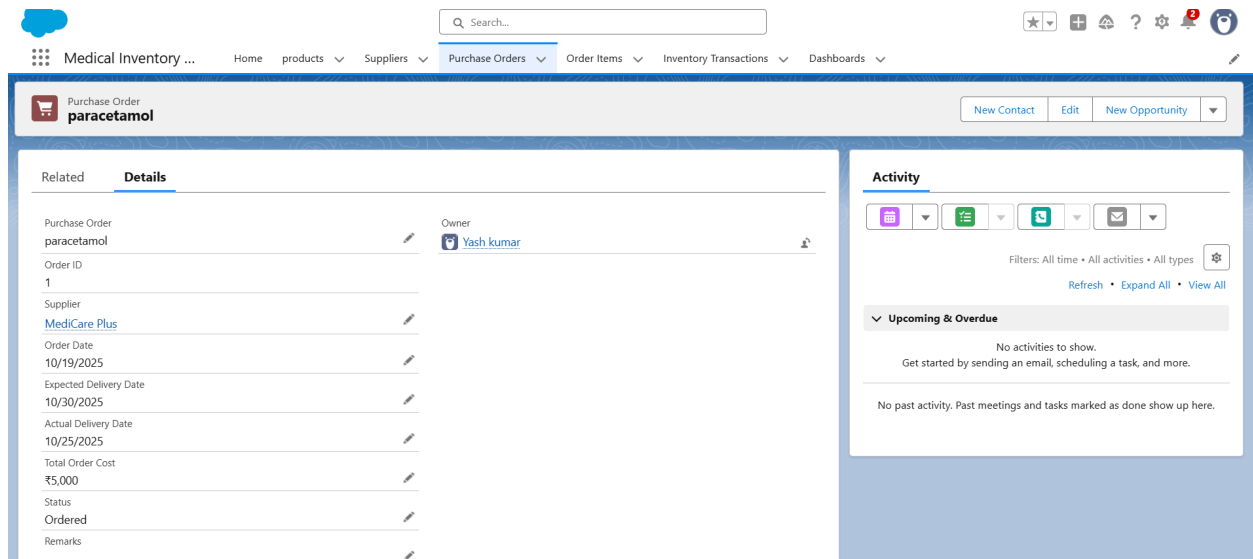
No activities to show.
Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

Use Case: Purchase Order Record Page

Customizations:

- Added sections for:
 - **Order Details** (Order Date, Supplier, Status)
 - **Order Items Related List** (for line items)
 - **Financial Summary** (Total Order Cost, Expected Delivery Date)



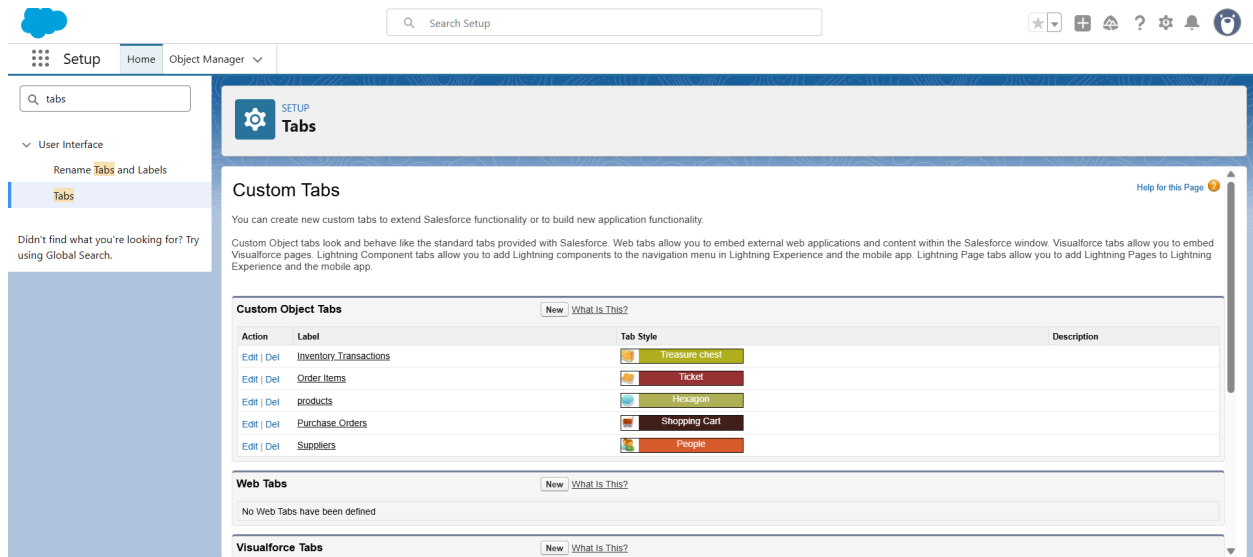
3. Tabs

Explanation:

Tabs were created for each custom object so users can quickly access and manage records.

Custom Tabs Created:

Object	Tab Label
Product	Products
Supplier	Suppliers
Purchase Order	Purchase Orders
Order Item	Order Items
Inventory Transaction	Inventory Transactions



4. Home Page Layouts

Explanation:

A **custom Home Page** was designed using Lightning App Builder to give users an instant overview of critical information when they log in.

Components Added:

- **Dashboard Component:** Displays “Medical Innovator Dashboard” KPIs.
- **Recent Records Component:** Shows latest Purchase Orders and Products.
- **To-Do List / Tasks Component:** Displays pending order follow-ups.
- **Rich Text Component:** Displays “Welcome Message” or “Inventory Health Summary.”

5. Utility Bar

Explanation:

A **Utility Bar** was configured to give users one-click access to helpful tools like Notes, Recent Items, and Quick Links.

Configuration:

Utility Item	Function
Recent Items	Quickly access recent records
Notes	Add notes on products or suppliers
History	Track recent navigation
Dashboard	View key analytics instantly

6. Lightning Web Components (Optional Enhancement)

Explanation:

A **custom LWC** was created to showcase the use of Salesforce's modern web component framework.

This LWC displays a live summary of *Low Stock Products* fetched from the database.

Code Example:

HTML (lowStockProducts.html)

```
<template>
```

```

<lightning-card title="Low Stock Products" icon-name="utility:warning">
  <template if:true={products}>
    <ul>
      <template for:each={products} for:item="prod">
        <li key={prod.Id}>{prod.Name} — Stock: {prod.Available_Stock__c}</li>
      </template>
    </ul>
  </template>
  <template if:false={products}>
    <p>No low stock items 🎉</p>
  </template>
</lightning-card>
</template>

```

JavaScript (lowStockProducts.js)

```

import { LightningElement, wire } from 'lwc';
import getLowStockProducts from
'@salesforce/apex/ProductController.getLowStockProducts';

export default class LowStockProducts extends LightningElement {
  @wire(getLowStockProducts) products;
}

```

Apex Controller (ProductController.cls)

```

public with sharing class ProductController {
  @AuraEnabled(cacheable=true)
  public static List<Product__c> getLowStockProducts() {
    return [SELECT Id, Name, Available_Stock__c
            FROM Product__c
            WHERE Available_Stock__c <= Minimum_Stock_Level__c];
  }
}

```