Phase 6: User Interface Development - Completion Report

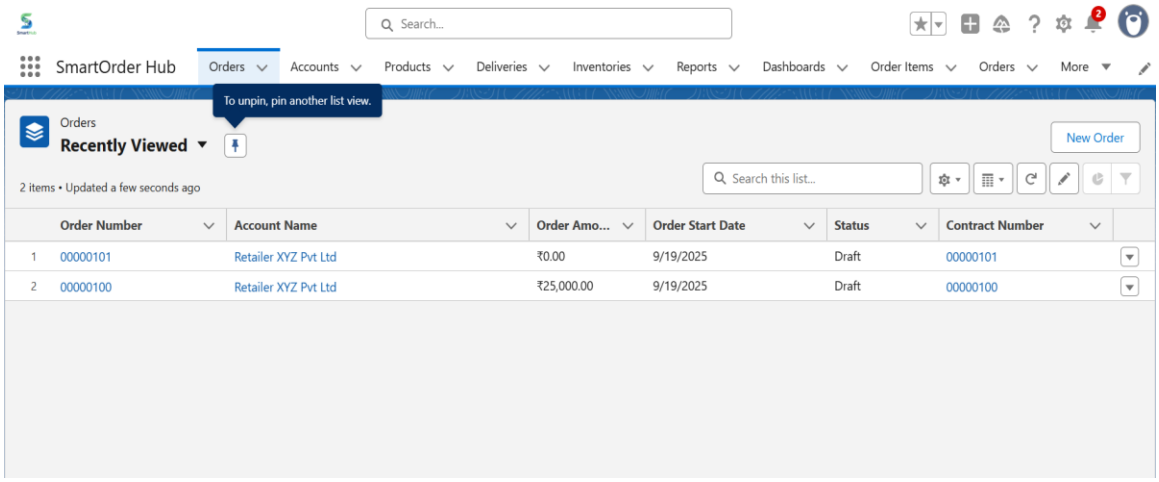
Objective

Design and implement Lightning Experience UI components, pages, and navigation to ensure seamless order placement, tracking, and management for retailers and wholesalers.

Important Phases Completed

1. Custom Lightning App (App Builder Setup)

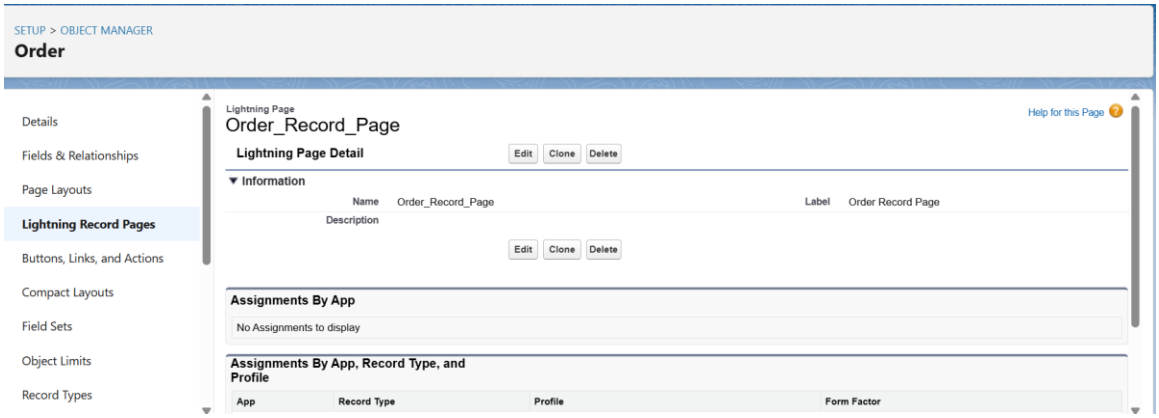
- Created a custom app named 'Wholesaler Order Management'.
- Added navigation tabs: Orders, Products, Inventory, Deliveries, Reports, Dashboards.
- Assigned app visibility to Retailer and Wholesaler profiles.



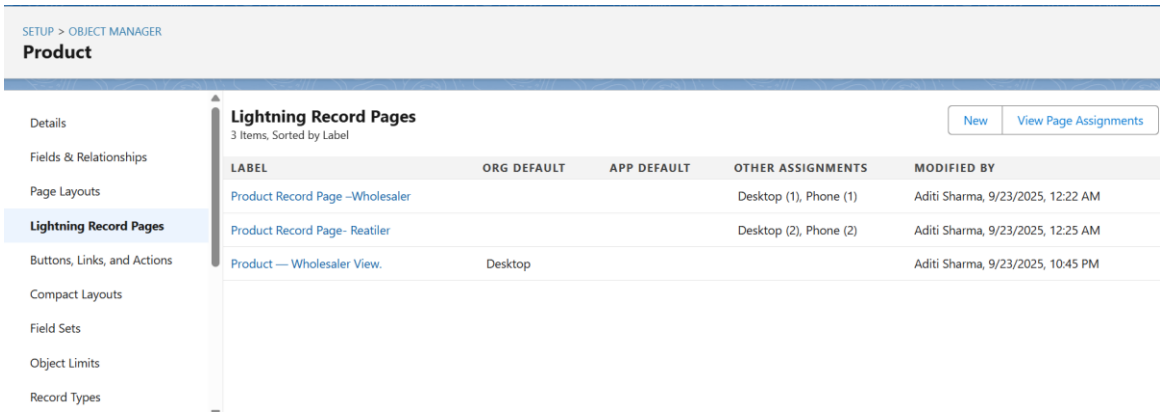
2. Record Pages (Order & Product Pages)

Order Record Page:

- Added Highlights Panel (Order ID, Status, Payment Info).
- Included Related Lists: Order Items, Inventory, Deliveries, Tasks.
- Added tabs for Details, Notes, and Files.



Product Record Page:
- Added Highlights Panel (Product Name, Price, Stock Level, Category).
- Included Related List: Recent Orders.
- Added optional report charts for Sales Trends.



3. Lightning Web Components (LWC)

Retailer Portal Components:
- ProductCatalogLWC → Display products with Add to Cart functionality.
- OrderFormLWC → Show cart items and checkout form.
- OrderStatusLWC → Track order progress (New → Processing → Dispatched → Delivered).

Wholesaler Components:
- DashboardLWC → Show charts: Orders by Status, Top-Selling Products.
- InventoryLWC → Inline stock updates using lightning-datatable.

4. Apex Integration with LWC

- Created @AuraEnabled Apex methods to fetch products, create orders, and update inventory.

- Integrated Apex with LWCs using @wire and imperative calls.
- Triggered notifications after order status changes.

5. Events in LWC (Custom Events + Pub/Sub)

- Used custom events for communication between ProductCatalogLWC and OrderFormLWC.
- Implemented Pub/Sub pattern for real-time updates across multiple components.

6. Wire Adapters (@wire)

- Used @wire to dynamically fetch Products, Orders, and Inventory.
- Ensured reactive UI updates in LWCs.