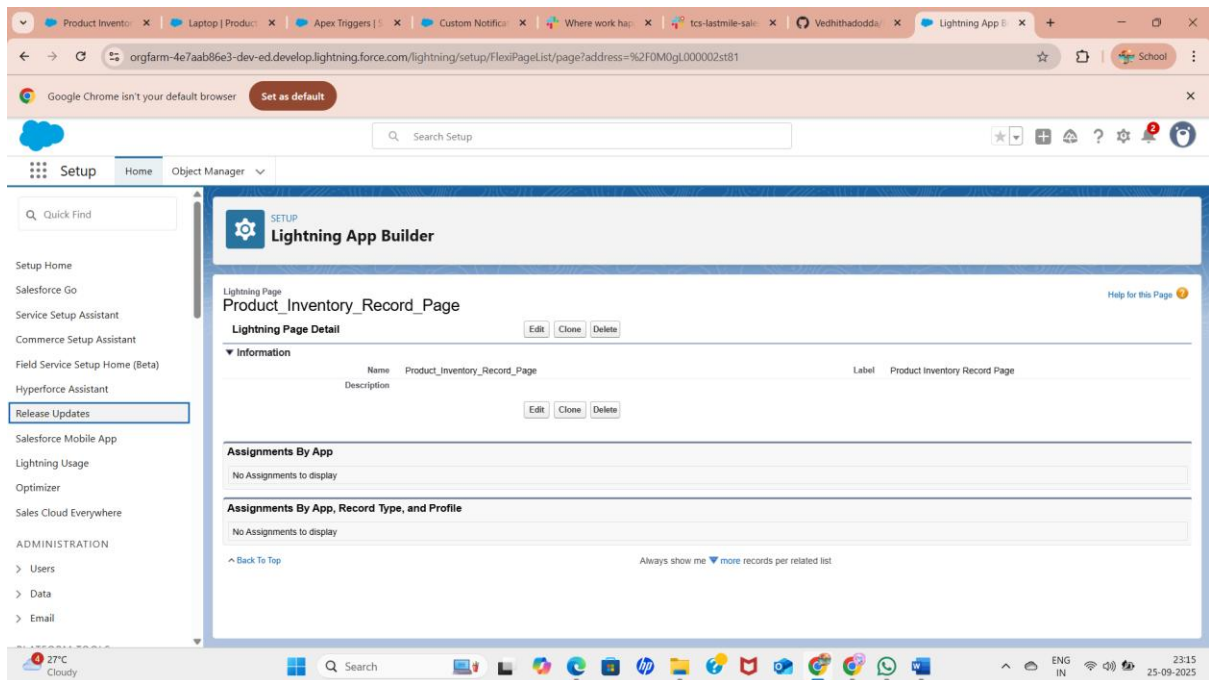


Phase 6: User Interface Development

1. Lightning App Builder

- Drag-and-drop tool to create **App Pages, Record Pages, and Home Pages**.
- Steps:
 1. Setup → Lightning App Builder → New
 2. Choose page type
 3. Drag components → Save & Activate



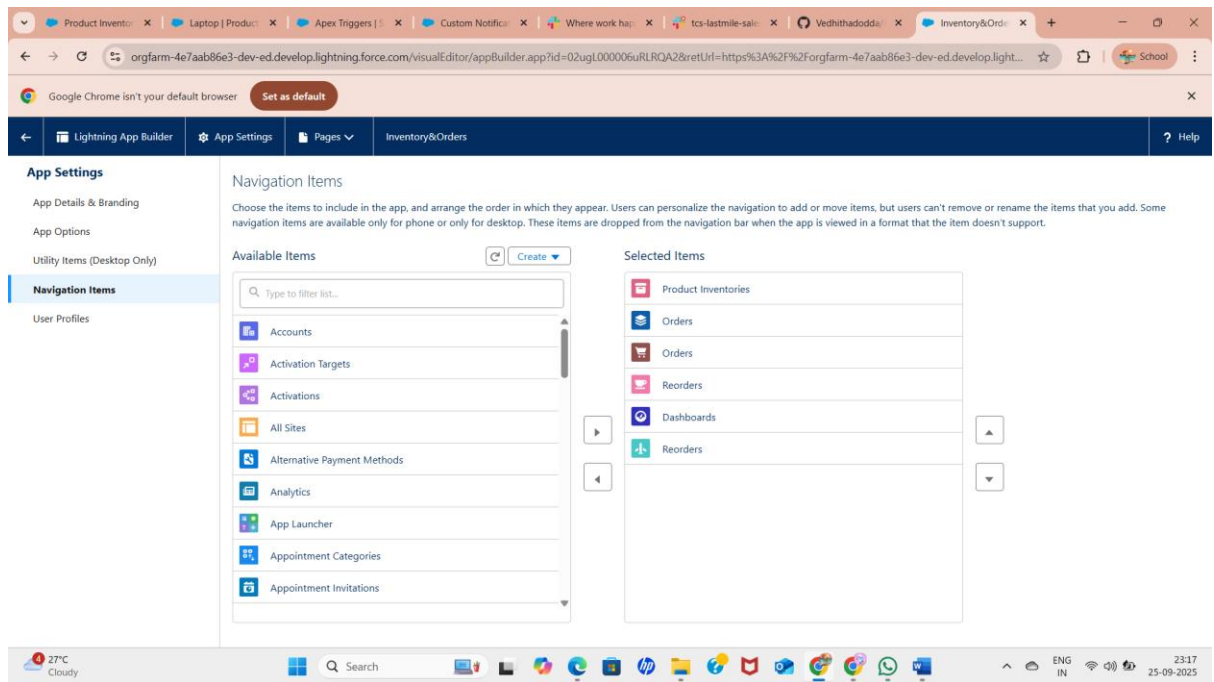
2. Record Pages

- Customize record appearance for Lightning Experience.
- Steps:
 1. Lightning App Builder → select **Record Page**
 2. Assign page to profiles or apps
- Use Cases: Show relevant fields, related lists, and charts per record type

3. Tabs

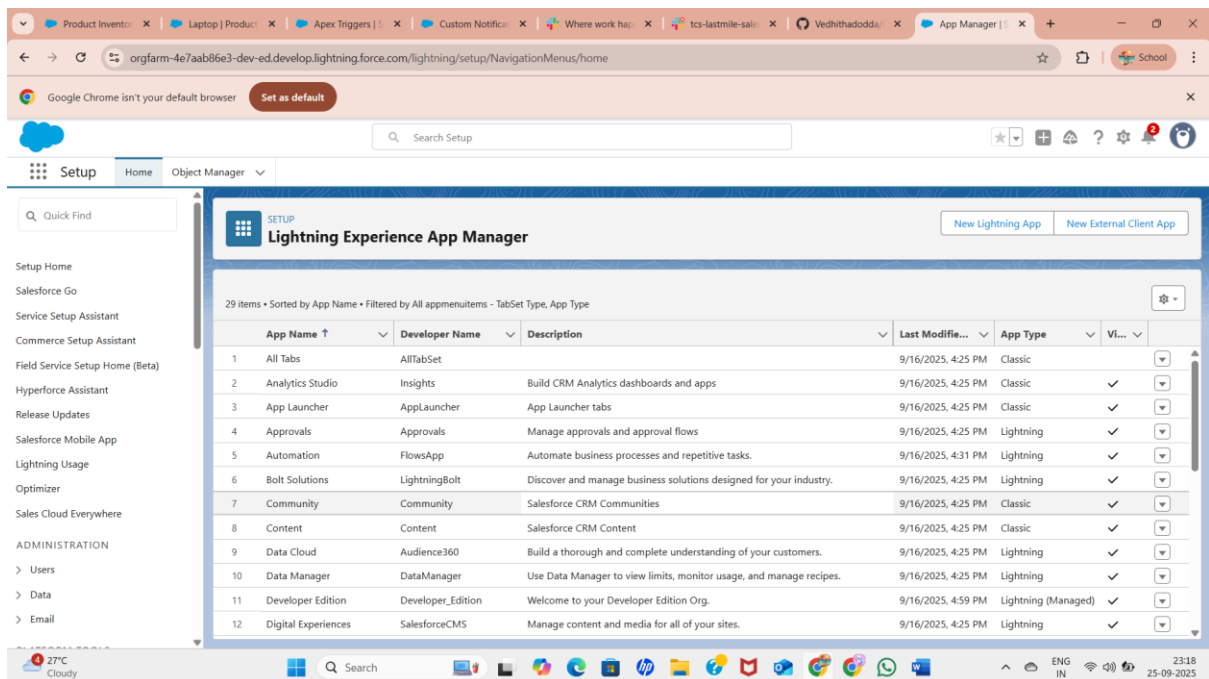
- Organize objects, apps, and web pages in Lightning Apps.
- Steps:
 1. Setup → App Manager → Select App → Edit → Navigation Items
 2. Add standard/custom objects or web tabs

- Example: Product Inventories, Orders, Reorders tabs



4. Home Page Layouts

- Customize the home page for users.
- Components: Reports, dashboards, recent items, tasks, custom components
- Steps:
 1. Setup → Lightning App Builder → Home Page
 2. Drag & drop components → Save & Activate



5. Utility Bar

- Fixed bar at bottom of Lightning App pages with quick actions.
- Steps:
 1. App Manager → Edit App → Utility Bar
 2. Add items like Flow, Reports, or custom components

6. LWC (Lightning Web Components)

- Modern JavaScript framework for Salesforce UI components.
- Structure: HTML (markup), JS (logic), CSS (style), Meta XML (configuration)
- Steps:
 1. VS Code → SFDX: Create Lightning Web Component
 2. Deploy to org → add to Lightning Page

7. Apex with LWC

- Use Apex to fetch or update data in LWC components.
- Steps:
 1. Create Apex class with `@AuraEnabled` method
 2. Call Apex method from LWC using `@wire` or imperative call

8. Events in LWC

- Communication between components using custom events.
- Types:
 - **Child to Parent:** `dispatchEvent` → handled by parent
 - **Pub-sub:** communication between sibling components
- Example: `this.dispatchEvent(new CustomEvent('productselected', { detail: productId }));`

9. Wire Adapters

- Reactive service to fetch Salesforce data in LWC.
- Example:

```
@wire(getProducts) products;
```

- Updates automatically when data changes
-

10. Imperative Apex Calls

- Call Apex methods on demand, not automatically.
- Example:

```
getProducts()  
.then(result => { this.products = result; })  
.catch(error => { console.error(error); });
```

11. Navigation Service

- Programmatically navigate in LWC.
- Example:

```
this[NavigationMixin.Navigate]({  
  type: 'standard__recordPage',  
  attributes: { recordId: this.recordId, actionName: 'view' }  
});
```