Phase 6 – User Interface Development (Admin & Developer)

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1. Lightning App Builder

Use Case: Create a custom app for shipment tracking with tabs, record pages, and utilities for logistics and customer teams.
Explanation: Lightning App Builder allows you to combine standard components, custom components, and flows into a unified interface.
Steps:

1. Setup → App Builder → New Lightning App
2. Name: ShipmentTrack
3. Include standard navigation items (Shipments, Inventory, Customers)
4. Assign to profiles (Logistics Manager, Customer Service)
   Screenshot: Lightning App Builder canvas with ShipmentTrack app layout.

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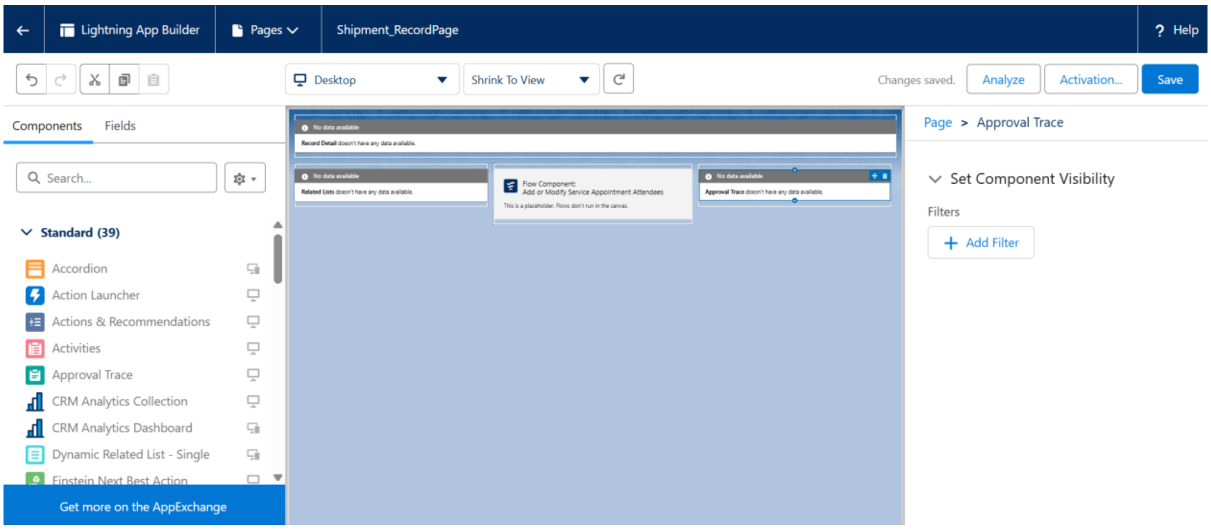
2. Record Pages

Use Case: Customize Shipment record layout for clarity and efficiency.
Explanation: Create separate layouts for different profiles, including shipment details, customer info, feedback flows, and approval history.
Steps:

1. Setup → Object Manager → Shipment → Lightning Record Pages → New
2. Add components: Details, Related Lists, Flows, Approval History
3. Activate → Assign to profiles
   Screenshot: Record page editor with components arranged.



No data available
Record Detail doesn't have any data available.

No data available
Related Lists doesn't have any data available.

Flow Component:
Add or Modify Service Appointment Attendees
This is a placeholder. Flows don't run in the canvas.

No data available
Approval Trace doesn't have any data available.

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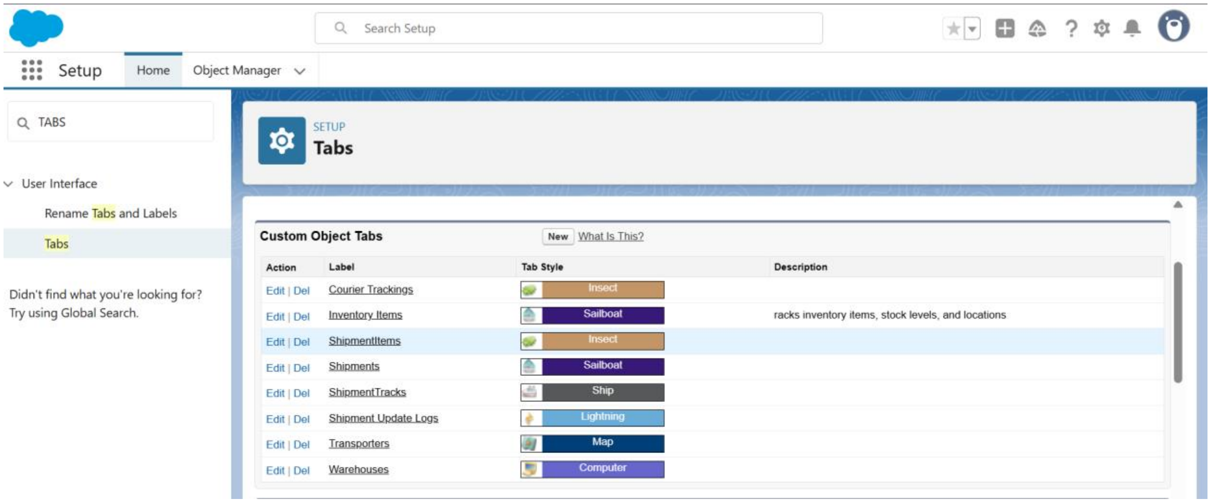
3. Tabs

Use Case: Easy access to key objects like Shipments, Inventory, Customers, Warehouses.
Steps:

1. Setup → Tabs → New Tab → Select Object → Add to App
2. Name tab (e.g., Shipments)



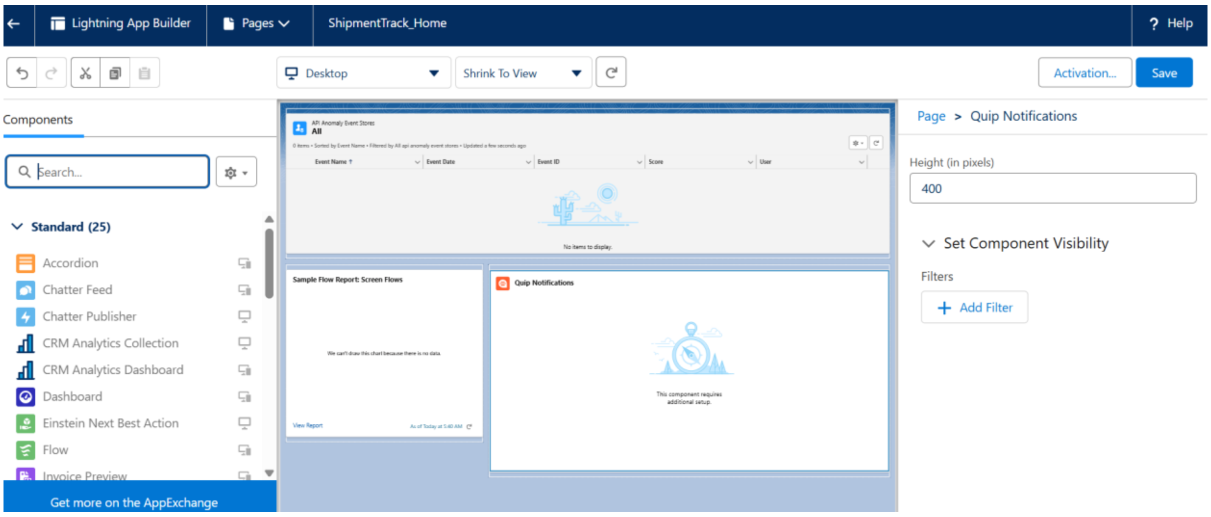
Custom Object Tabs — New | What Is This?

Action	Label	Tab Style	Description
Edit | Del	Courier Trackings	Insect	
Edit | Del	Inventory Items	Sailboat	racks inventory items, stock levels, and locations
Edit | Del	ShipmentItems	Insect	
Edit | Del	Shipments	Sailboat	
Edit | Del	ShipmentTracks	Ship	
Edit | Del	Shipment Update Logs	Lightning	
Edit | Del	Transporters	Map	
Edit | Del	Warehouses	Computer	

4. Home Page Layouts

Use Case: Dashboard for users to see shipment status, pending approvals, and alerts.
Steps:

1. Setup → Home Pages → New Lightning Home Page
2. Add components: List Views, Reports, Charts, Custom Notifications



Height (in pixels): 400

5. Utility Bar

Use Case: Quick access to common actions like creating shipments, searching customers, or checking inventory.
Steps:

1. Setup → App Builder → Open App → Utility Bar → Add Utilities (e.g., “Create Shipment”, “Search Shipment”)

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6. LWC (Lightning Web Components)

Use Case: Custom interactive components for shipment tracking and feedback.
Example: shipmentFeedback component to capture rating and comments.
Steps:

1. Create LWC: VS Code or Developer Console → lwc create shipmentFeedback
2. HTML + JS + CSS for UI
3. Deploy → Add to Lightning Record Page

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7. Apex with LWC

Use Case: Fetch or update shipment records using server-side logic.
Example: Retrieve shipment details for LWC dynamically.

```
@AuraEnabled(cacheable=true)

public static Shipment__c getShipmentDetails(Id shipmentId){

    return [SELECT Id, Name, Status__c, Customer__c FROM Shipment__c WHERE Id = :shipmentId];

}
```

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8. Events in LWC

Use Case: Communication between parent and child components.
Example: Emit a custom event when feedback is submitted:

```
const feedbackEvent = new CustomEvent('submitted', {detail: this.feedback});

this.dispatchEvent(feedbackEvent);
```

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9. Wire Adapters

Use Case: Automatically fetch Salesforce data in a reactive way.
Example:

```
import { LightningElement, wire } from 'lwc';

import getShipmentDetails from '@salesforce/apex/ShipmentController.getShipmentDetails';
```

```
export default class ShipmentDetails extends LightningElement {
    @wire(getShipmentDetails, { shipmentId: '$recordId' }) shipment;
}
```

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10. Imperative Apex Calls

Use Case: Call Apex methods on button click or specific action.

```
import { LightningElement } from 'lwc';
import updateShipmentStatus from
'@salesforce/apex/ShipmentController.updateShipmentStatus';

handleClick(){
    updateShipmentStatus({ shipmentId: this.recordId, status: 'Delivered' })
    .then(result => console.log('Status updated'))
    .catch(error => console.error(error));
}
```

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11. Navigation Service

Use Case: Navigate programmatically between pages, e.g., after submitting feedback.

```
import { NavigationMixin } from 'lightning/navigation';

export default class ShipmentNav extends NavigationMixin(LightningElement){
    navigateToShipment(){
        this[NavigationMixin.Navigate]({
            type: 'standard__recordPage',
            attributes: {
                recordId: this.recordId,
                objectApiName: 'Shipment__c',
                actionName: 'view'
            }
        });
    }
}
```