

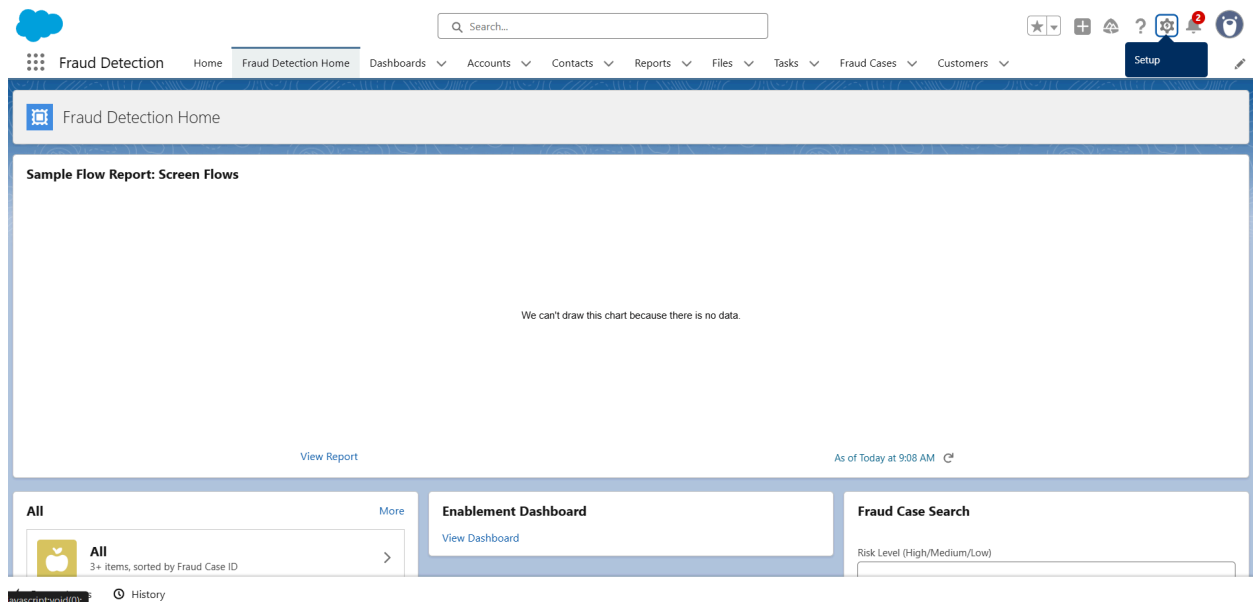
# Phase 6: User Interface Development (Fraud Detection)

This phase focused on building a **Lightning User Interface** for Fraud Detection using **Lightning App Builder**, **Utility Bar**, and **Lightning Web Components (LWC)** integrated with Apex.

---

## 1. Lightning App Builder – Fraud Detection App

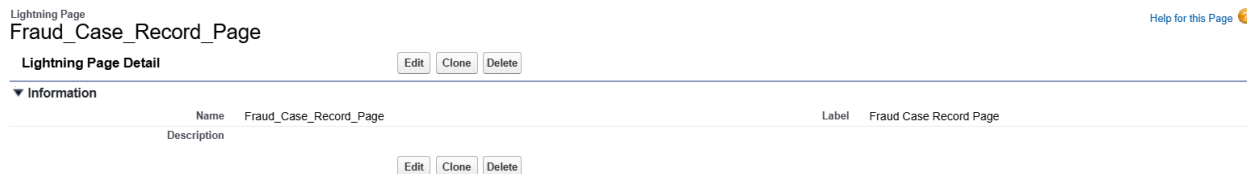
- Created a **Lightning App** named *Fraud Detection App*.
- Added **Fraud Cases**, **Transactions**, **Alerts** as navigation items (tabs).
- Configured **Utility Bar** (see section 5).
- Assigned app to **Fraud Analysts** profile.



## 2. Record Pages

Custom Lightning Record Pages were designed for better case handling:

- **Fraud Case Record Page**
  - Left Panel: Case ID, Risk Score, Risk Level, Case Status.
  - Tabs:
    - *Details* – All fields of Fraud Case.
    - *Related* – Related Transactions & Alerts.
    - *Notes & Attachments*.
  - Layout used: Standard Record Page (two-region template).
  - Activated for Desktop and Phone.



## 3. Tabs

- Added navigation tabs for **Fraud Cases, Transactions, and Alerts**.
- Made visible in the **Fraud Detection App Navigation Bar**.

## 4. Home Page Layout

- Created a **Fraud Detection Home Page** using Lightning App Builder (App Page type).

- Components added:
  - Report Chart – Fraud Cases by Risk Level.
  - Dashboard – Fraud Monitoring Dashboard.
  - List View – Recent Alerts.
- Assigned as the **default Home Page** for Fraud Analysts.

Lightning Page

Fraud\_Detection\_Home

Help for this Page ?

Lightning Page Detail

Edit Clone Delete

▼ Information

Name	Label
Fraud_Detection_Home	Fraud Detection Home
Description	

Edit Clone Delete

## 5. Utility Bar

Configured in Fraud Detection App Settings:

- **New Fraud Case:** Quick Action for analysts.
- **Recent Alerts:** List view.
- **Notes:** Quick note-taking option.

## 6. Lightning Web Components (LWC)

Developed LWCs to support Fraud Detection workflows:

- **fraudCaseSearch (Child Component)**
  - Provides input fields to filter cases (e.g., Risk Level, Analyst, Date).
  - Includes a Search button.
  - Sends filter details to parent component through a custom event.

Lightning Component Detail

Lightning Web Component Bundle Detail

Name	fraudCaseSearch	Label	fraudCaseSearch
Created By	Nishant Deshmukh, 9/22/2025, 9:06 AM	Description	
		Modified By	Nishant Deshmukh, 9/22/2025, 10:52 AM

LWC Dependencies

Search for Lightning Component (Case Sensitive)

Search

Name	Label	Type	Namespace Prefix	Api Version
> fraudCaseSearch	fraudCaseSearch	LWC		59

- fraudCaseManager (Parent Component)
  - Receives search input from child component.
  - Displays filtered Fraud Cases in a table.
  - Allows creation of new Fraud Cases.
  - Uses Apex service class for search and create operations.
  - After new Fraud Case creation, navigates user to its record page.

Lightning Component Detail

Lightning Web Component Bundle Detail

Name	fraudCaseManager	Label	fraudCaseManager
Created By	Nishant Deshmukh, 9/22/2025, 10:52 AM	Description	
		Modified By	Nishant Deshmukh, 9/22/2025, 10:52 AM

LWC Dependencies

Search for Lightning Component (Case Sensitive)

Search

Name	Label	Type	Namespace Prefix	Api Version
> fraudCaseManager	fraudCaseManager	LWC		64

## 7. Apex with LWC

- Built an Apex service class named *FraudCaseService* to handle:
  - Searching Fraud Cases by Risk Level.
  - Creating new Fraud Cases.
- Integrated this Apex class with the LWCs for smooth UI–backend communication.

The screenshot shows the Salesforce Apex Class Detail page for the *FraudCaseService* class. The page includes a header with the class name and a "Help for this Page" link. Below the header, there are tabs for "Apex Class Detail", "Edit", "Delete", "Download", "Security", and "Show Dependencies". The main content area displays the class details, including the Name, Namespace Prefix, Status, and Active status. It also shows the Code Coverage (0% (0/6)) and the Created By (Nishant Deshmukh) and Last Modified By (Nishant Deshmukh) information. The "Class Body" tab is selected, showing the following Apex code:

```
1 public with sharing class FraudCaseService {
2     @AuraEnabled(cacheable=true)
3     public static List<Fraud_Case__c> searchCases(String riskLevel) {
4         return [
5             SELECT Id, Name, Risk_Score__c, Risk_Level__c, Case_Status__c
6             FROM Fraud_Case__c
7             WHERE Risk_Level__c = :riskLevel
8             LIMIT 50
9         ];
10    }
11
12    @AuraEnabled
13    public static Id createFraudCase(Fraud_Case__c fc) {
14        insert fc;
15        return fc.Id;
16    }
17 }
```

## 8. Events in LWC

- Implemented **event communication** between LWCs.
- *fraudCaseSearch* (child) sends search filters → *fraudCaseManager* (parent) listens and fetches results.

## 9. Wire Adapters

- Used wire adapters to automatically fetch Fraud Cases based on user-selected filters.
- Keeps the UI updated in real-time.

## 10. Imperative Apex Calls

- Used for creating Fraud Cases directly from the UI.
  - Ensures flexibility to handle success and error messages.
- 

## 11. Navigation Service

- After creating a Fraud Case, the system automatically redirects analysts to the new record page.
- Improves user experience and reduces manual navigation steps