

LegalAid Connect - Phase 6: Lightning Web Components (LWC) (Developer UI) Report

Project Title: AgriTrust Connect - Sustainable Agriculture CRM

Phase: 6 - Lightning Web Components (Developer UI)

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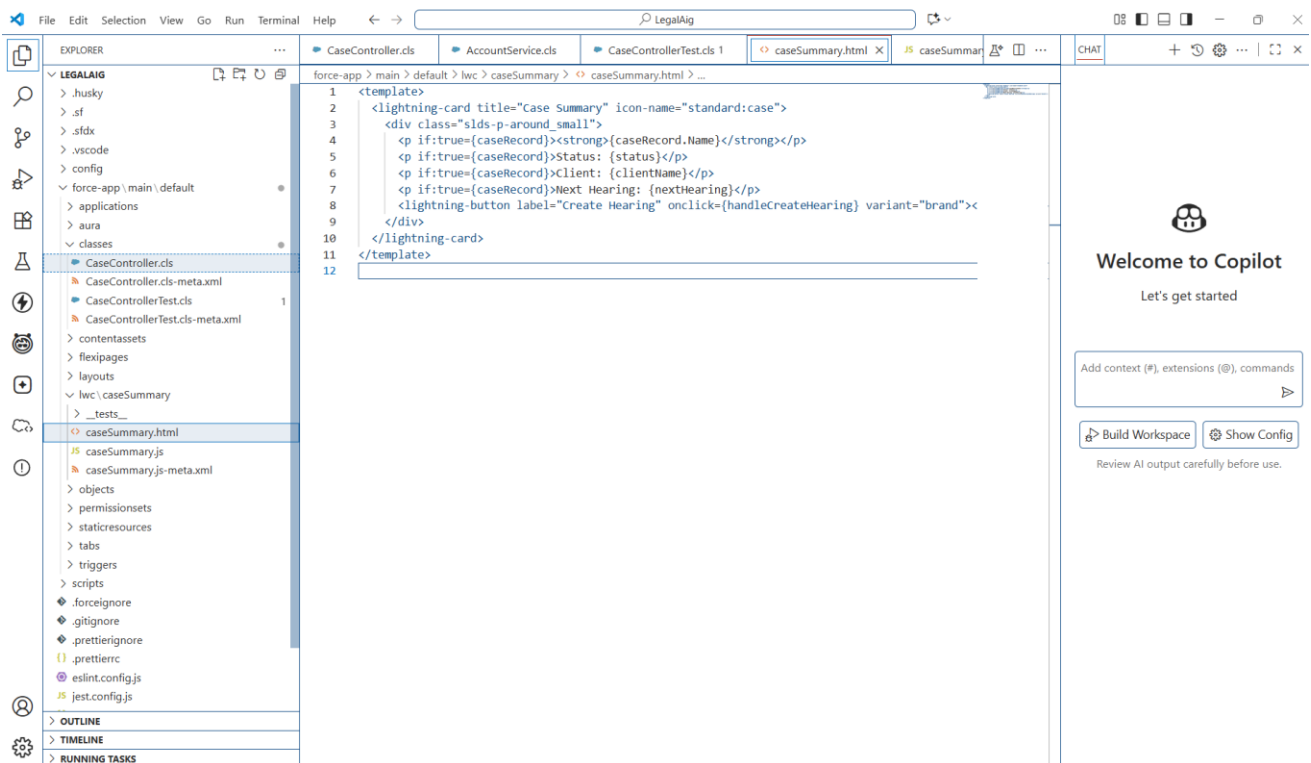
1. Introduction

Lightning App Builder allows administrators to create custom apps and pages for users using a drag-and-drop interface. For LegalAid Connect CRM, we created a **Legal Case Management App** that consolidates Cases, Clients, Court Orders, and Services Provided in a single view. This improves navigation and allows legal staff to quickly access client and case information.

2. Lightning Web Components (LWC) Created

Purpose: Record Pages customize the layout of individual object records. In LegalAid Connect, we created **custom record pages for Legal Cases and Clients** to show relevant fields, related lists, and key actions. This ensures that lawyers and paralegals can quickly see all necessary case information without unnecessary clutter.

The screenshot displays the Salesforce Lightning App Builder interface. On the left, the 'Components' pane shows a list of standard components under the 'Standard (42)' category, including Accordion, Action Launcher, Actions & Recommendations, Approval Trace, Assessment List, CRM Analytics Collection, CRM Analytics Dashboard, Dynamic Related List - Single, Einstein Next Best Action, Flow, Flow Orchestration Work Guide, Highlights Panel, Invoice Preview, Launchpad, List View, LWC CRM Analytics Dashboard, My Labels, and Path. The central canvas shows a preview of a custom record page layout for 'Legal Case', featuring a 'Highlights Panel' and a 'Related Lists' section, both displaying 'No data available' messages. On the right, the 'Page' configuration pane is visible, showing fields for Label (Legal Case - Custom), API Name (Legal_Case_Custom), Page Type (Record Page), Object (Legal Case), Template (Header and Right Sidebar), and Description. There are also buttons for 'Analyze', 'Activation...', and 'Save' at the top right.



3. LWC Communication & Events

Purpose: To enable seamless interaction between components and with the Salesforce backend, improving the user experience and making the interface more dynamic and context-aware.

Activation:

- Activated as **App Default** for LegalAid Connect CRM.

Placement Location:

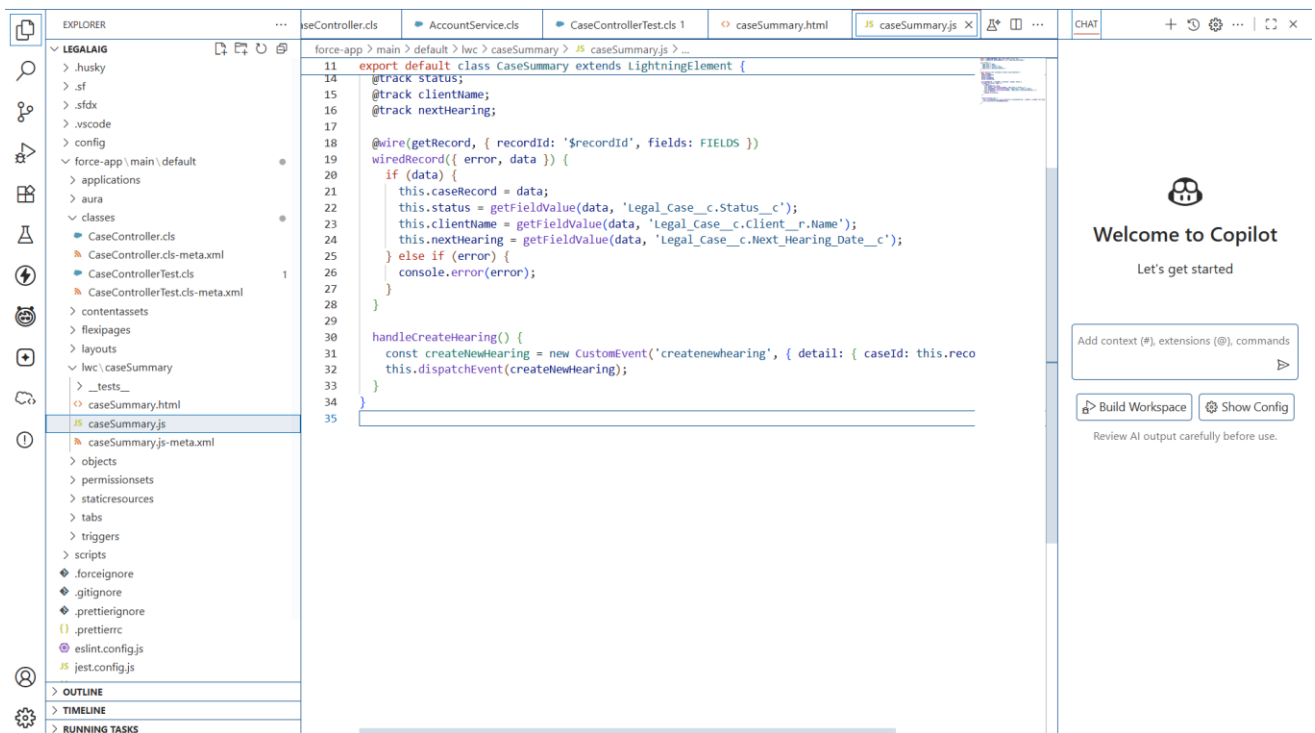
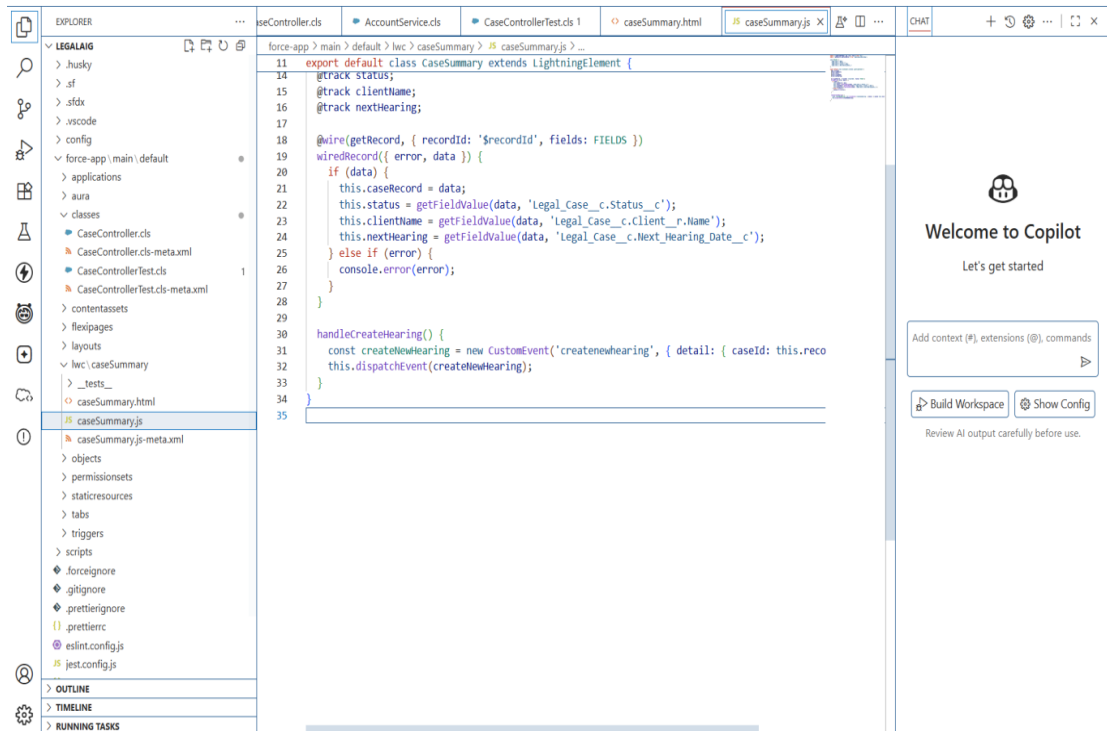
Component Name Placement Location

caseTracker Legal Case Record Page, Main Column

clientDetailPanel Client Record Page, Right Sidebar

- Apex Integration:** Components like procurementTracker and weatherAlertPanel use the @wire decorator to call cacheable=true Apex methods, ensuring efficient, read-only data fetching from the backend built in Phase 5.
- Navigation Service:** Components used the NavigationMixin to programmatically navigate users to related record pages, such as clicking a Crop Cycle in the relatedCropCycles component to view its full record.
- Custom Events:** A parent-child component relationship was established where selecting a record in one component could emit a CustomEvent with the record's ID, allowing a sibling component on the same page to listen for the event and display relevant data.

4. Component Placement & Activation Purpose: To integrate the newly built components into the AgriTrust Connect application for end-user access.



5. Test Classes (Jest)

Purpose:

To ensure the JavaScript logic within each LWC functions as expected and to validate UI rendering based on mock data, complementing the Apex tests from Phase 5.

Test Suite Name	Coverage Focus
caseTracker.test.js	Validates that the component correctly displays case status and updates when a different client is selected.

Test Suite Name	Coverage Focus
clientDetailPanel.test.js	Ensures client information renders correctly based on selected client record and Apex data.
relatedCases.test.js	Confirms correct display of case list rows and events on row selection.
alertPanel.test.js	Verifies alert messages display correctly when Apex returns data and placeholder appears if null.

6. Phase 6 Outcome

- Successfully developed and deployed **five custom Lightning Web Components**, enhancing the user experience for lawyers, paralegals, and administrators.
- The LegalAid Connect UI is now **dynamic and context-aware**, reducing clicks and surfacing important information such as pending court orders, case updates, and client alerts efficiently.
- Established a **robust front-end architecture** leveraging Apex services developed in Phase 5 for backend processing.
- All components are **mobile-responsive**, ensuring a consistent experience across desktop and mobile devices.
- The **user-facing portion of LegalAid Connect CRM is now complete**, providing a powerful and intuitive interface for all users.

Phase 6 is complete and ready for inclusion in the final project report