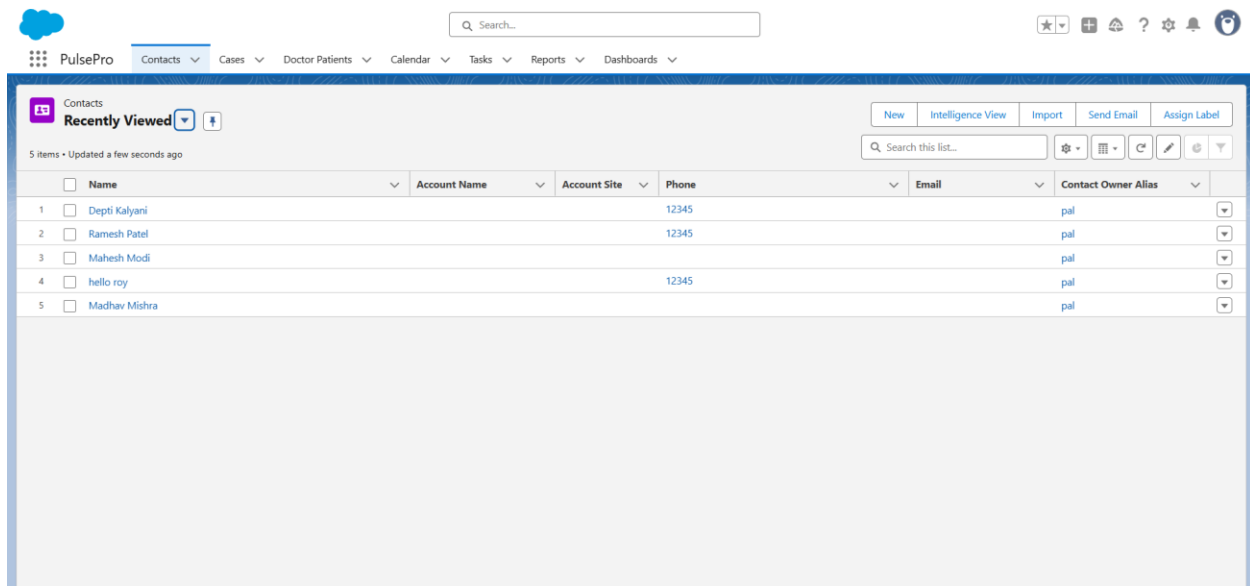## Phase 6: User Interface Development

In Phase 6, the user interface of the Salesforce application was customized to create an intuitive and user-friendly environment for managing hospital appointments and patient records through the **PulsePro** app. The design focused on making essential information accessible for Doctors, Managers, and Receptionists.

Lightning App Builder

- A new custom Lightning App named **PulsePro** was created.

- Navigation Items added:

    - Contacts (Patients)

    - Cases (Treatments/Appointments)

    - Doctor Patients (junction object)

    - Calendar

    - Tasks

    - Reports

    - Dashboards
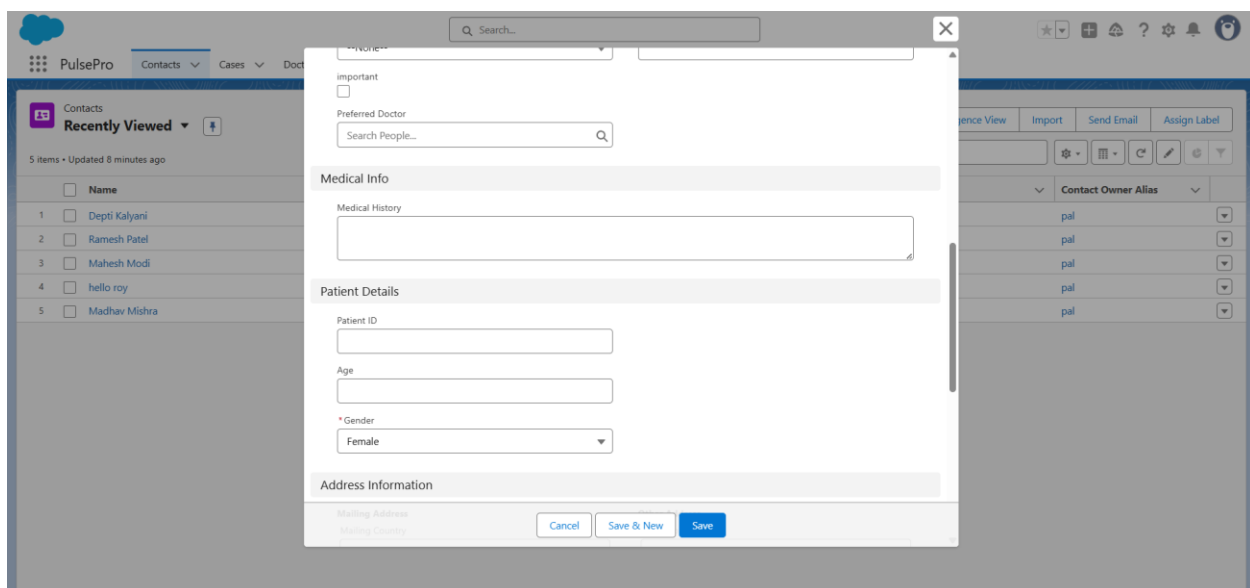
Record Pages

The **Contact Record Page** was customized to display patient details including **Patient ID, Age, Preferred Doctor, and Medical History**, along with related lists for **Doctor Patients** and **Cases**.

The **Case Record Page** was customized to display fields such as **Treatment Notes, Medicines Prescribed, Doctor Assigned, and Follow-Up Date**, ensuring that doctors and managers can easily track treatments and assignments.

Tabs

Navigation tabs were added within the PulsePro app to provide quick access to essential records and features, including **Contacts, Cases, Doctor Patients, Reports, Dashboards, Calendar, and Tasks**. This organization ensures that users can switch between different functionalities seamlessly.
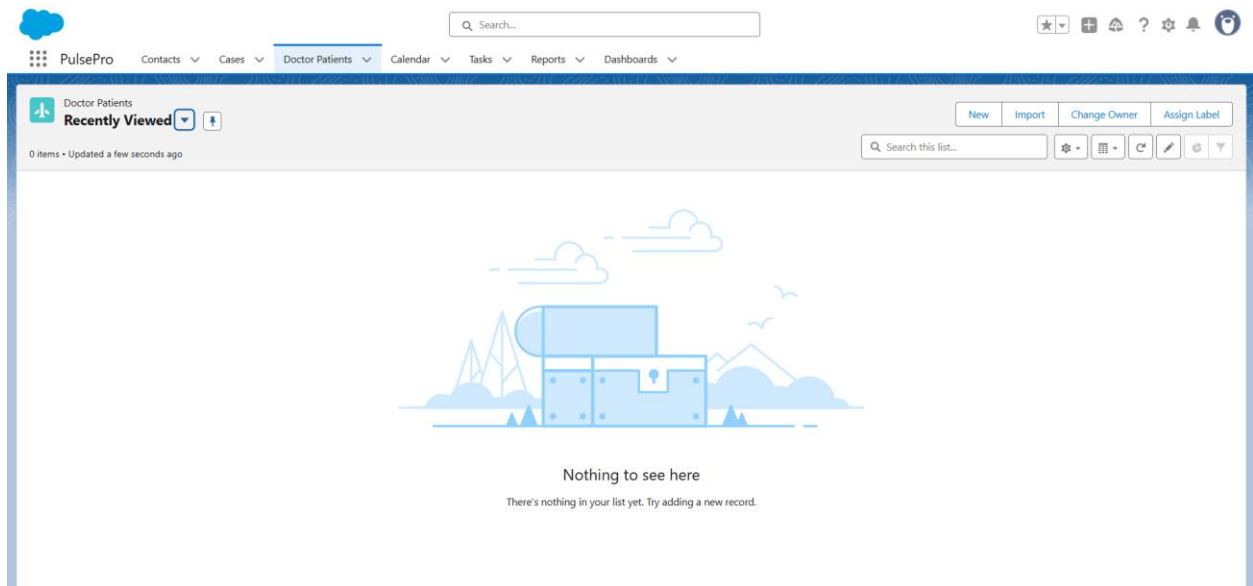
Home Page Layouts

A custom **Home Page** was created for the PulsePro app using the Lightning App Builder. Components included **Recent Patients, Upcoming Appointments, and Today's Tasks/Events** to provide users with a quick overview of their daily responsibilities and patient management activities. The Home Page was activated and assigned to the relevant user profiles, ensuring that Doctors, Managers, and Receptionists can access it immediately upon login.
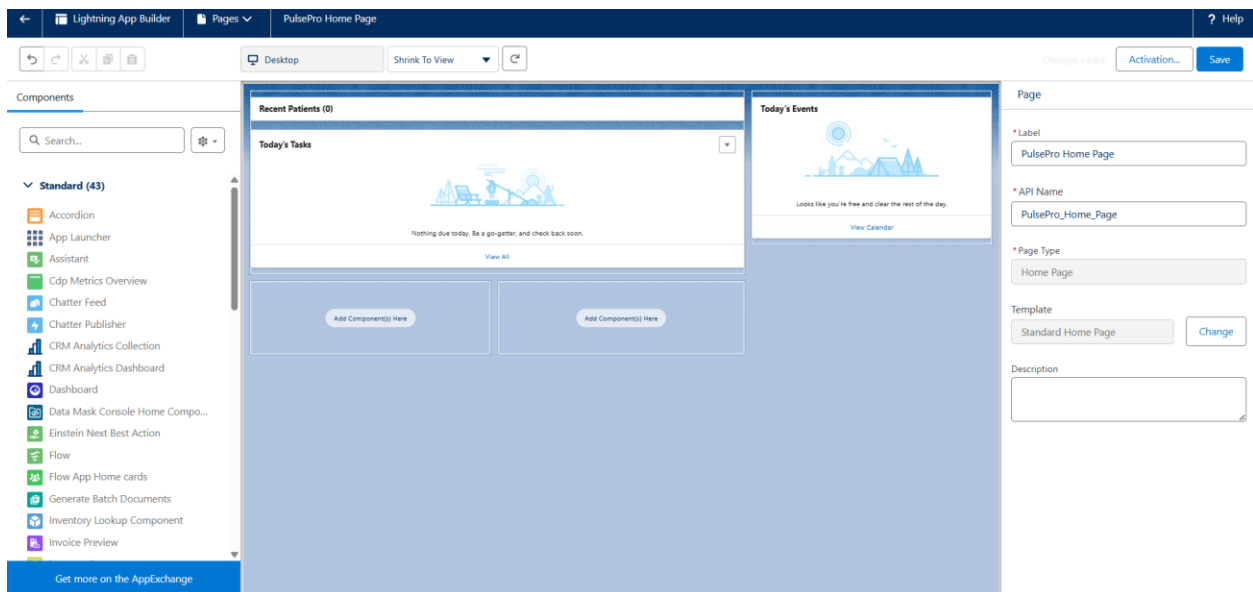
Utility Bar

The **Utility Bar** in the PulsePro app can provide quick access to frequently used tools such as notes, recent records, or custom components. For the hospital appointment and patient management application, the default utility features were used to maintain simplicity and focus on essential patient and appointment workflows.
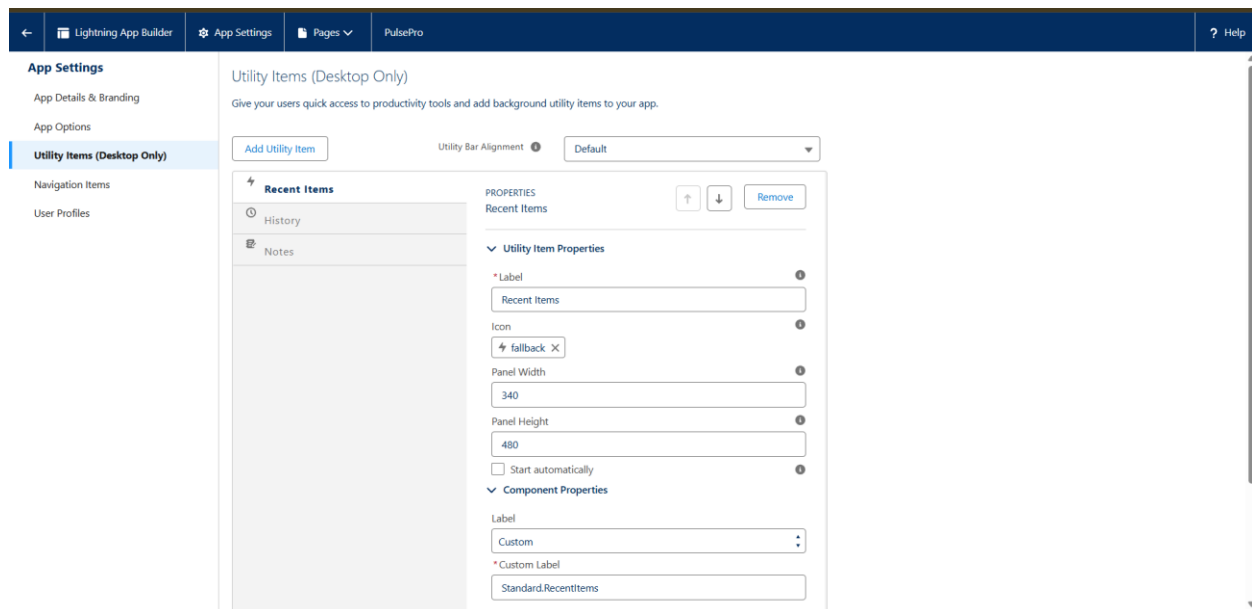
Lightning Web Components (LWC)

Lightning Web Components enable building modern, dynamic, and reusable components in Salesforce. In this project, the standard page layouts and components provided sufficient functionality for displaying patient information, appointments, and related records, so custom LWCs were not implemented to keep the application straightforward and maintainable.

Apex with LWC

Apex methods can be called from LWCs to retrieve or manipulate Salesforce data programmatically. Since the project requirements were satisfied using standard record pages, flows, and automation, there was no need to create custom Apex-integrated LWC.

Events in LWC

LWC events allow components to communicate with each other. For this project, the standard record pages and related lists provided the necessary data interactions, so custom event handling between LWCs was not implemented.

Wire Adapters

Wire adapters are used in LWCs to read Salesforce data reactively. Given that the application relies on standard record pages, flows, and dashboards for displaying data, wire adapters were not necessary for this implementation.

Imperative Apex Calls

Imperative Apex calls allow LWCs to call Apex methods on demand rather than reactively. Since custom LWCs were not developed, imperative calls were not required in the project.

Navigation Service

The Navigation Service provides programmatic navigation between pages in Salesforce. For PulsePro, standard tab navigation and record page links meet the project requirements, so programmatic navigation was not required.