

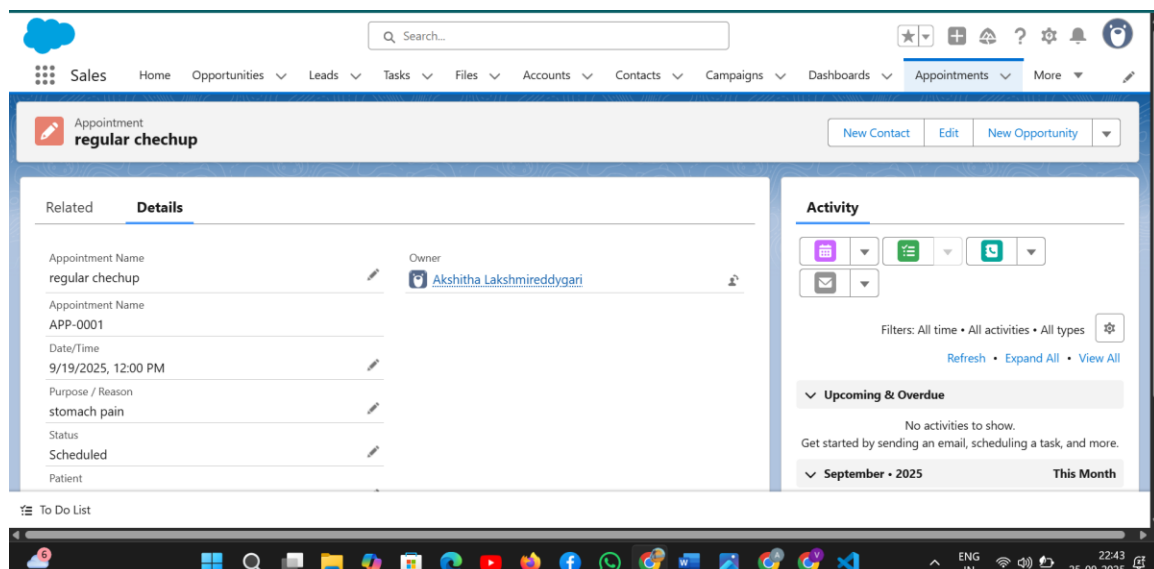
Phase 6: User Interface Development

Introduction:

This phase focuses on building an intuitive Lightning experience for different hospital roles (Doctor, Receptionist, Admin). I used Lightning App Builder, Record Pages, Tabs, Home Page Layouts, Utility Bar, a custom LWC and Apex integration to deliver a seamless UI.

1. Lightning App Builder

To provide different users with customized pages, I used Lightning App Builder to design Appointment – Doctor View and Appointment – Receptionist View record pages. Each page shows only the components relevant to that role.

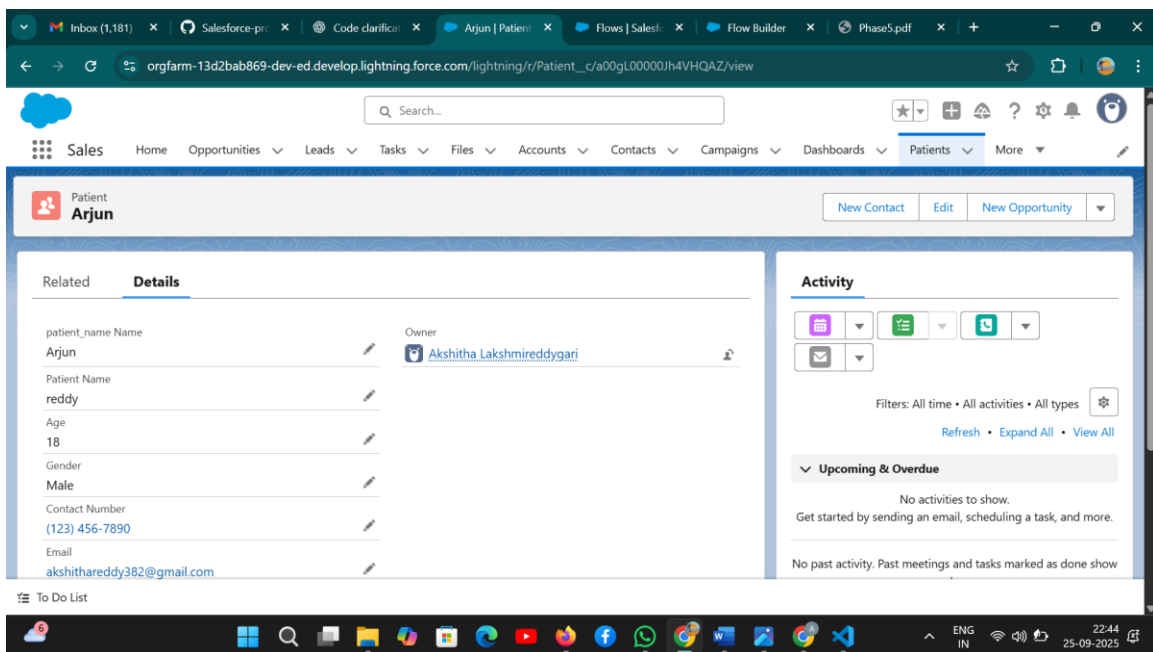
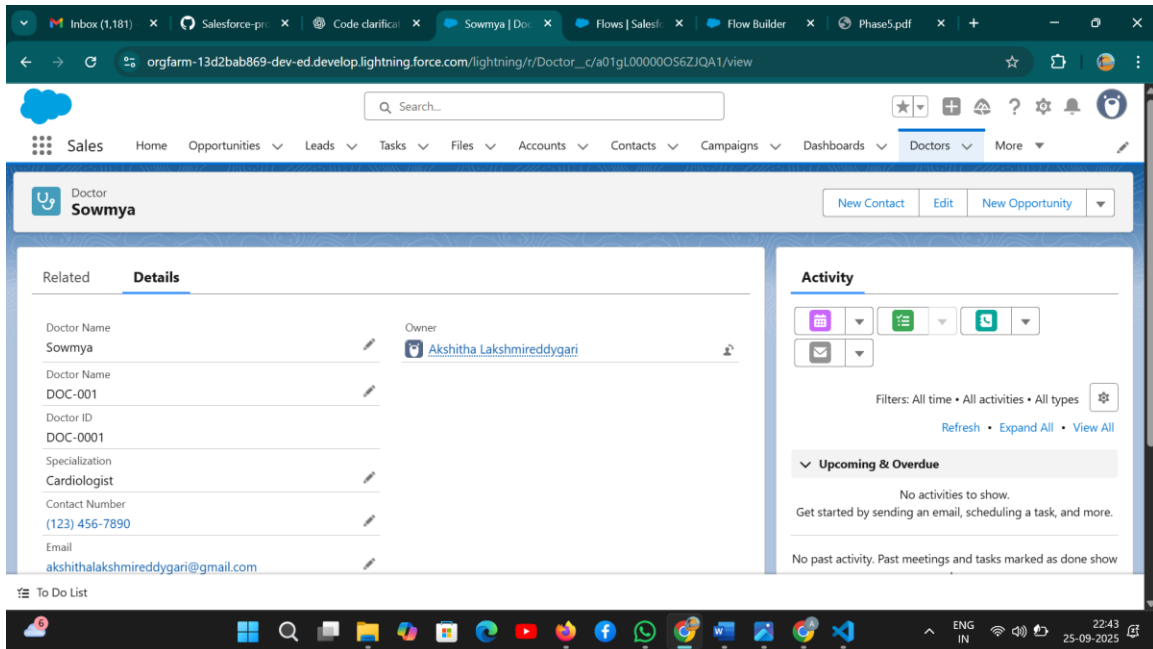


2. Record Pages (Doctor & Receptionist Views)

Doctors need quick access to upcoming appointments and related Medical Cases.

Receptionists need fast appointment entry. I created two record pages with appropriate components:

- Appointment – Doctor View: shows patient summary, related Medical Cases, and the upcoming appointments LWC.
- Appointment – Receptionist View: optimized for quick data entry and follow-up creation.
- Activated per profile/record type so each user sees the correct page.



3. Tabs

I exposed all major objects (Patients, Appointments, Medical Cases) as tabs in the MediCare Lightning app so staff can navigate quickly.

4. Home Page Layouts

I built a custom MediCare Home Page that displays a dashboard component (Upcoming Appointments, Recent Appointments & Medical Cases, Upcoming Appointments Report Chart) for a real-time view.

5. Utility Bar

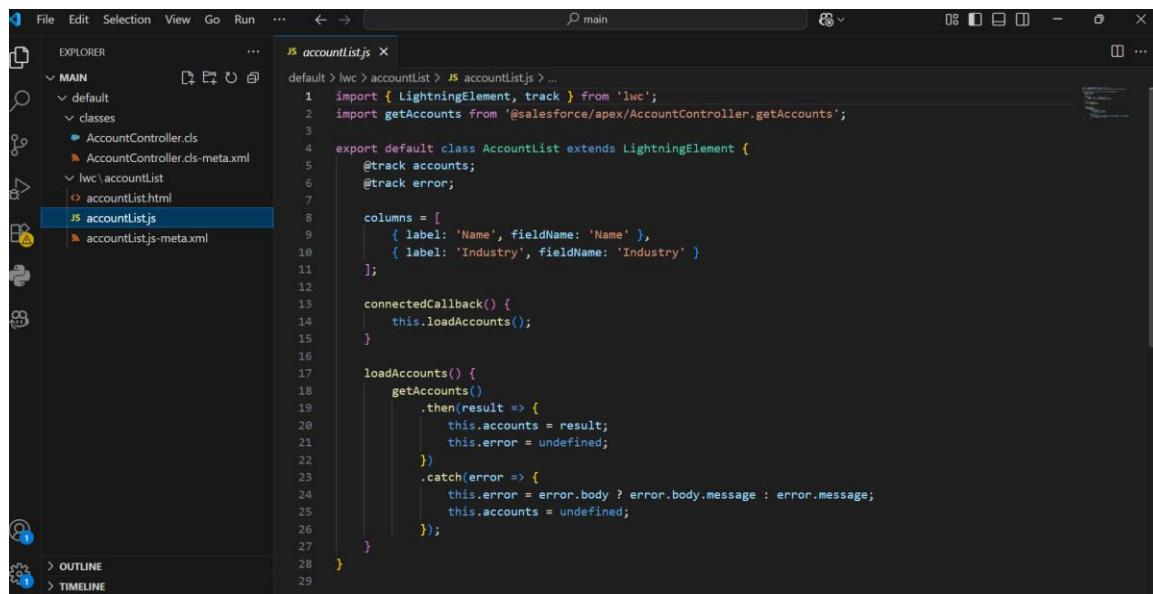
I added Reports/Dashboards and Quick Actions to the Utility Bar to give staff one-click access from anywhere in the app.

6. Lightning Web Component (LWC) – “Upcoming Appointments”

- A custom LWC appointmentCalendar built and deployed.
- It queries all upcoming appointments and displays Patient, Doctor, Date/Time, Status, Duration in a datatable.
- Dropped into the Appointment – Doctor View page so the doctor can instantly see upcoming appointments.

7. Apex with LWC

The LWC calls the Apex class AppointmentController using a wire adapter to fetch upcoming appointments server-side. This ensures the doctor always sees real-time appointment data without page refresh.



```
1 import { LightningElement, track } from 'lwc';
2 import getAccounts from '@salesforce/apex/AccountController.getAccounts';
3
4 export default class AccountList extends LightningElement {
5   @track accounts;
6   @track error;
7
8   columns = [
9     { label: 'Name', fieldName: 'Name' },
10    { label: 'Industry', fieldName: 'Industry' }
11  ];
12
13  connectedCallback() {
14    this.loadAccounts();
15  }
16
17  loadAccounts() {
18    getAccounts()
19      .then(result => {
20        this.accounts = result;
21        this.error = undefined;
22      })
23      .catch(error => {
24        this.error = error.body ? error.body.message : error.message;
25        this.accounts = undefined;
26      });
27  }
28 }
```

8. Wire Adapters

I used a @wire adapter in the LWC to call the Apex method automatically and refresh when the data changes. This keeps the appointments list up-to-date without manual refresh.

9. Results / Observations

- Doctors now see a live list of upcoming appointments directly on their Appointment page.
- Receptionists can quickly create and manage appointments without leaving their view.
- The MediCare Home Page provides a real-time snapshot of the hospital’s activities (appointments and cases).

- Utility Bar ensures quick access to reports, dashboards and actions from anywhere in the app.
- The LWC with Apex integration makes the UI dynamic and responsive, reducing page refreshes.