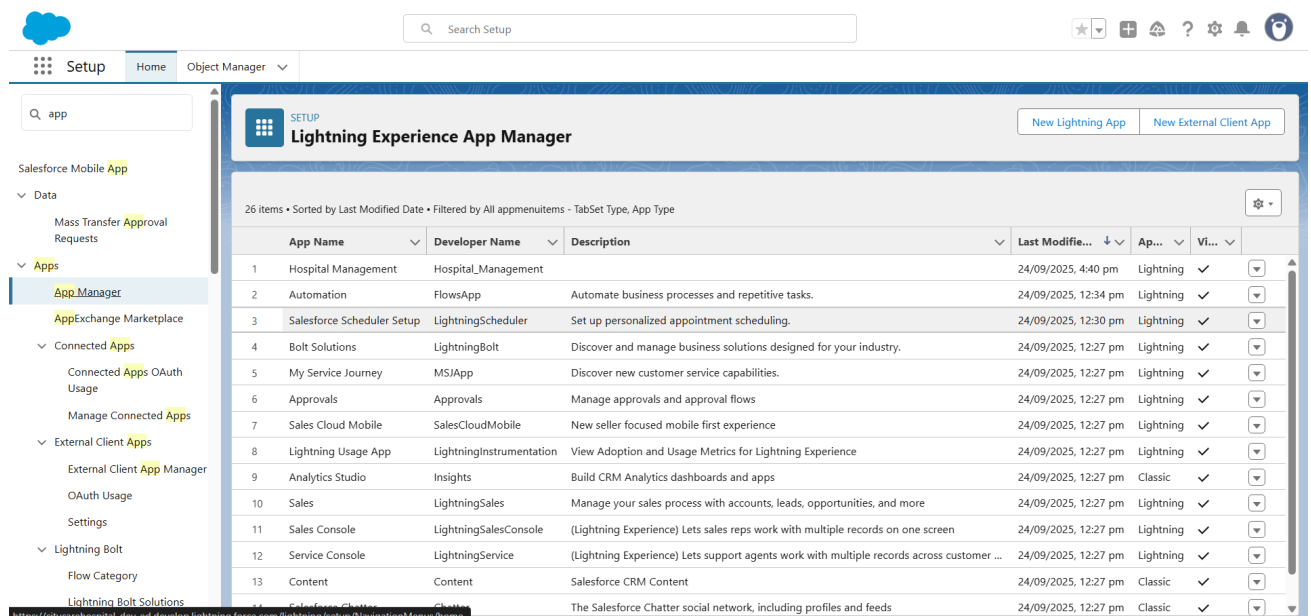


# Phase 6: User Interface Development

## 1. Lightning App Builder

- Created the **Hospital App** to serve as the main container for all custom objects, tabs, and pages.
- This provides one unified workspace for users such as Doctors, Patients, and Receptionists.



## 2. Record Pages

- Created four record pages, each linked to its respective object:
  - Appointment Record Page → Object: **Appointment\_\_c**
  - Patient Record Page → Object: **Patient\_\_c**
  - Doctor Record Page → Object: **Doctor\_\_c**

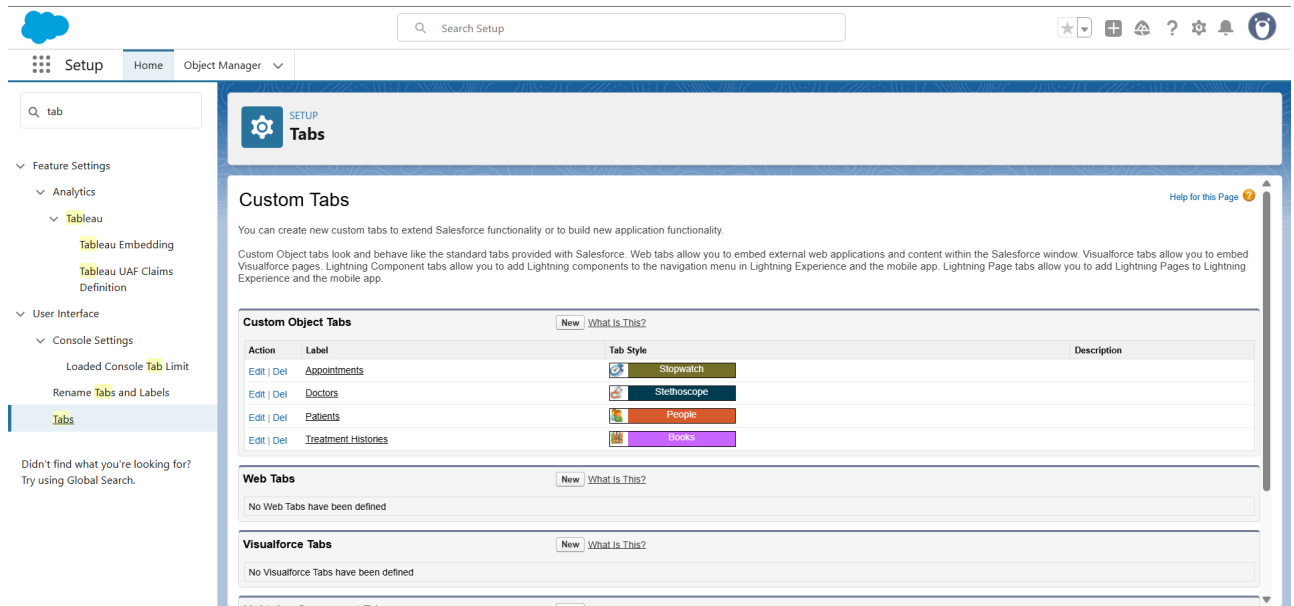
- Treatment History Record Page → Object: **Treatment\_History\_\_c**
- Used the “Header and One Region” layout for clarity.
- Added **Highlights Panel** and **Record Detail** to display important information directly.

The screenshot shows the Salesforce Lightning App Builder interface. On the left is a navigation menu with categories like Setup, Objects and Fields, User Interface, Custom Code, and Lightning Components. The 'Lightning App Builder' option is selected under the 'User Interface' category. The main content area displays a table of 'Lightning Pages'. Above the table, there's a search bar and a 'View' dropdown set to 'All'. The table has columns for Action, Label, Name, Namespace Prefix, Description, Type, Created By, and Last Modified By. It lists five pages: Appointment\_Record\_Page, Doctor\_Record\_Page, Hospital\_Home\_Page, Patient\_Record\_Page, and Treatment\_History\_Record\_Page. Each page has 'Edit', 'Clone', and 'Del' actions available.

Action	Label	Name	Namespace Prefix	Description	Type	Created By	Last Modified By
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	Appointment_Record_Page	Appointment_Record_Page			Record Page	SB, 26/09/2025, 11:34 am	SB, 26/09/2025, 11:34 am
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	Doctor_Record_Page	Doctor_Record_Page			Record Page	SB, 26/09/2025, 11:37 am	SB, 26/09/2025, 11:37 am
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	Hospital_Home_Page	Hospital_Home_Page			App Page	SB, 26/09/2025, 12:01 pm	SB, 26/09/2025, 12:01 pm
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	Patient_Record_Page	Patient_Record_Page			Record Page	SB, 26/09/2025, 11:36 am	SB, 26/09/2025, 11:36 am
<a href="#">Edit</a>   <a href="#">Clone</a>   <a href="#">Del</a>	Treatment_History_Record_Page	Treatment_History_Record_Page			Record Page	SB, 26/09/2025, 11:38 am	SB, 26/09/2025, 11:38 am

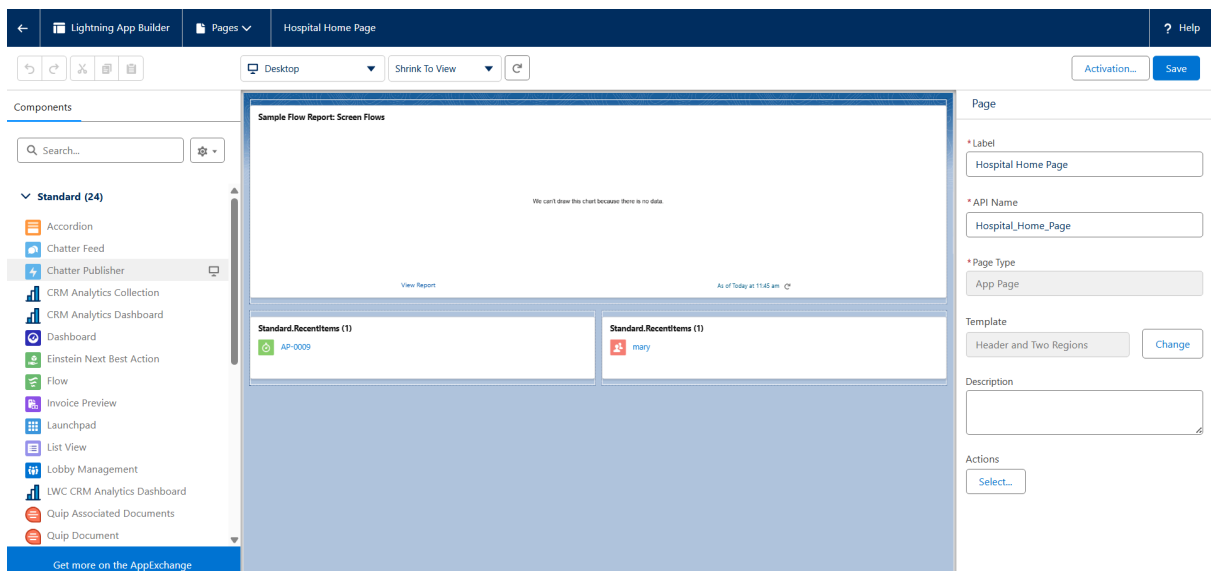
### 3. Tabs

- Defined **Custom Object Tabs** for easy navigation inside the Hospital App:
  - Appointments
  - Patients
  - Doctors
  - Treatment Histories
- Each tab links directly to the respective custom object.



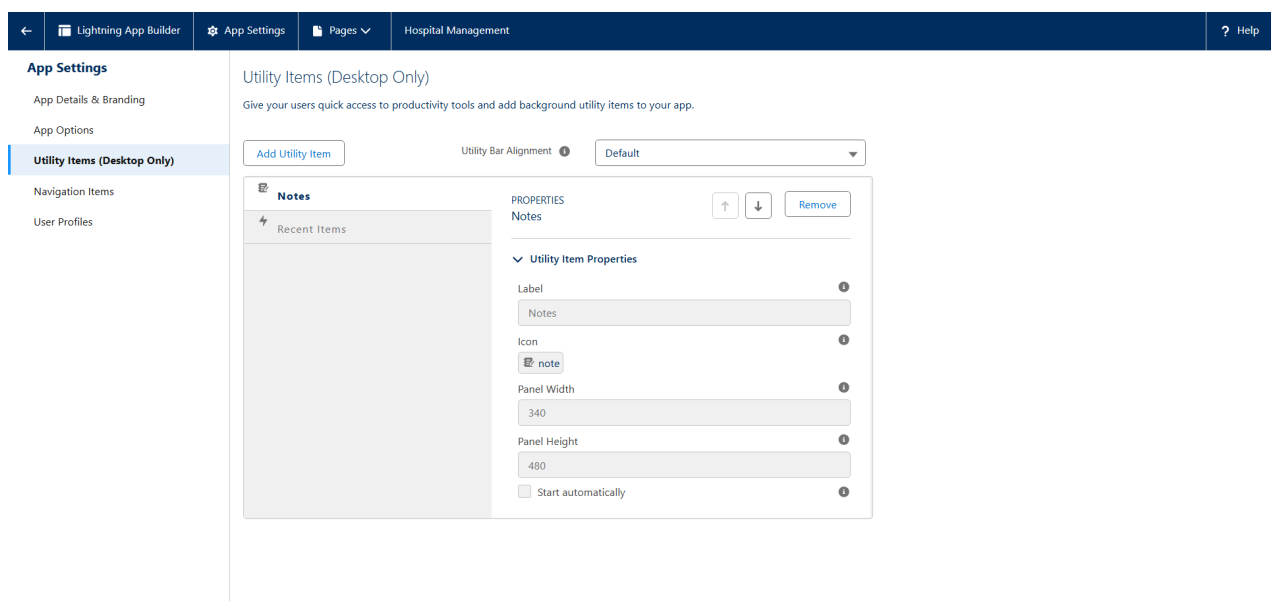
## 4. Home Page Layout

- Created the **Hospital Home Page** using Lightning App Builder.
- Added the following components:
  - Recent Items (default component)
  - Report Chart → linked to “Appointments by Status” report for quick insights



## 5. Utility Bar

- Configured the **Utility Bar** for the Hospital App.
- Added utility items such as:
  - Notes
  - Recent Items



## 6. Lightning Web Components (LWC)

We implemented custom **LWC components** for the Hospital App.

1. **hospitalWelcome** → Displays a welcome message.
2. **patientWireDemo** → Uses **@wire** to fetch Patient data from Apex.
3. **patientApexDemo** → Demonstrates **Imperative Apex calls** for Patients.
4. **appointmentEventDemo** → Demonstrates **LWC Events**.

The screenshot shows the Salesforce Setup interface. The left sidebar contains a navigation menu with categories like Sales, Objects and Fields, User Interface, Custom Code, and Environments. The 'Lightning Components' link is highlighted under the 'Custom Code' section. The main content area is titled 'Lightning Components' and includes a table listing various components.

Action	Name	Label	Type	Namespace Prefix	Api Version
Del	appointmentEventDemo	appointmentEventDemo	LWC		64.0
Del	hospitalWelcome	hospitalWelcome	LWC		64.0
Del	patientApexDemo	patientApexDemo	LWC		64.0
Del	patientWireDemo	patientWireDemo	LWC		64.0

## 7. Apex with LWC

- Connected LWCs to Apex classes for dynamic data.
- Used **PatientService** Apex class to fetch Patients, Doctors, and Appointments data for LWCs.

The screenshot shows the Salesforce Setup interface for Apex Classes. The left sidebar has 'Apex Classes' highlighted. The main content area displays the details for the 'PatientService' Apex Class, including its name, namespace prefix, and the class body code.

**Apex Class Detail**

Name: PatientService  
 Namespace Prefix:   
 Created By: Saaketh B. 25/09/2025, 10:59 pm  
 Status: Active  
 Code Coverage: 0% (0/6)  
 Last Modified By: Saaketh B. 26/09/2025, 12:42 pm

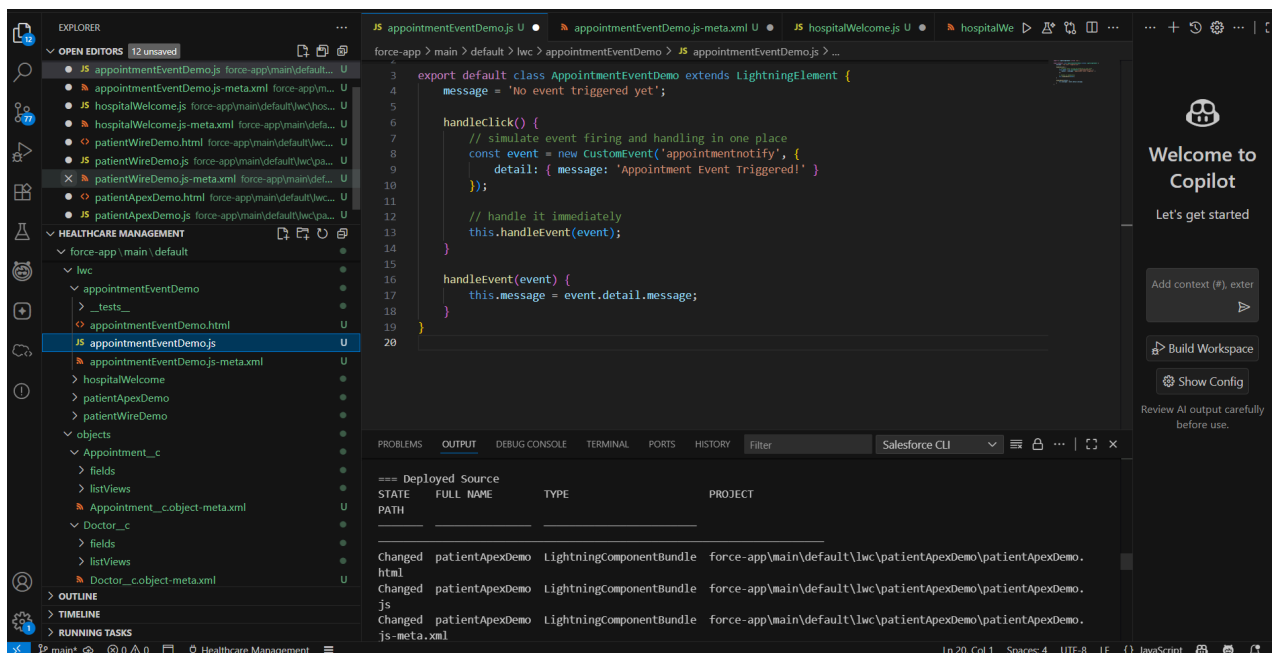
**Class Body**

```

1 public with sharing class PatientService {
2
3     // Fetch top 10 Patients
4     @AuraEnabled(cacheable=true)
5     public static List<Patient__c> getPatients() {
6         return [
7             SELECT Id, Name, Last_Name__c, Age__c, Gender__c, Email__c, Phone__c
8             FROM Patient__c
9             LIMIT 10
10        ];
11    }
12
13    // Fetch top 10 Doctors
14    @AuraEnabled(cacheable=true)
15    public static List<Doctor__c> getDoctors() {
16        return [
17            SELECT Id, Name, Last_Name__c, Specialization__c, Department__c, Email__c, Phone__c, Years_Of_Experience__c
18            FROM Doctor__c
19            LIMIT 10
20        ];
21    }
22
23 }
```

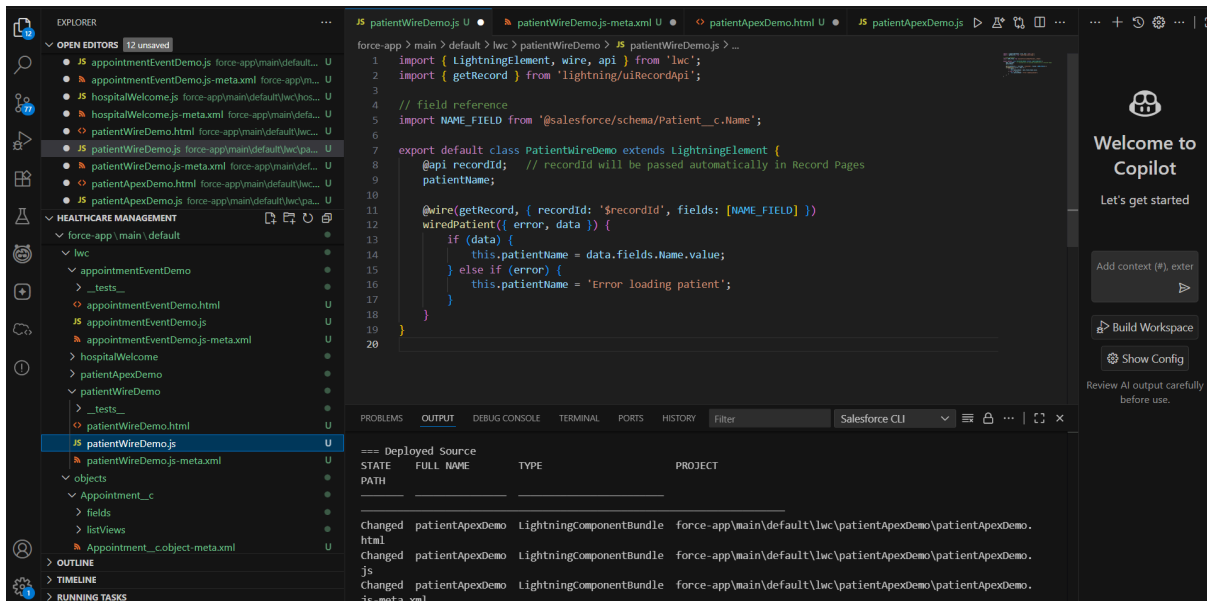
## 8. Events in LWC

- Implemented a **simple event demo**.
- Example: A button in an LWC fires an event, and another component listens to it for interaction.



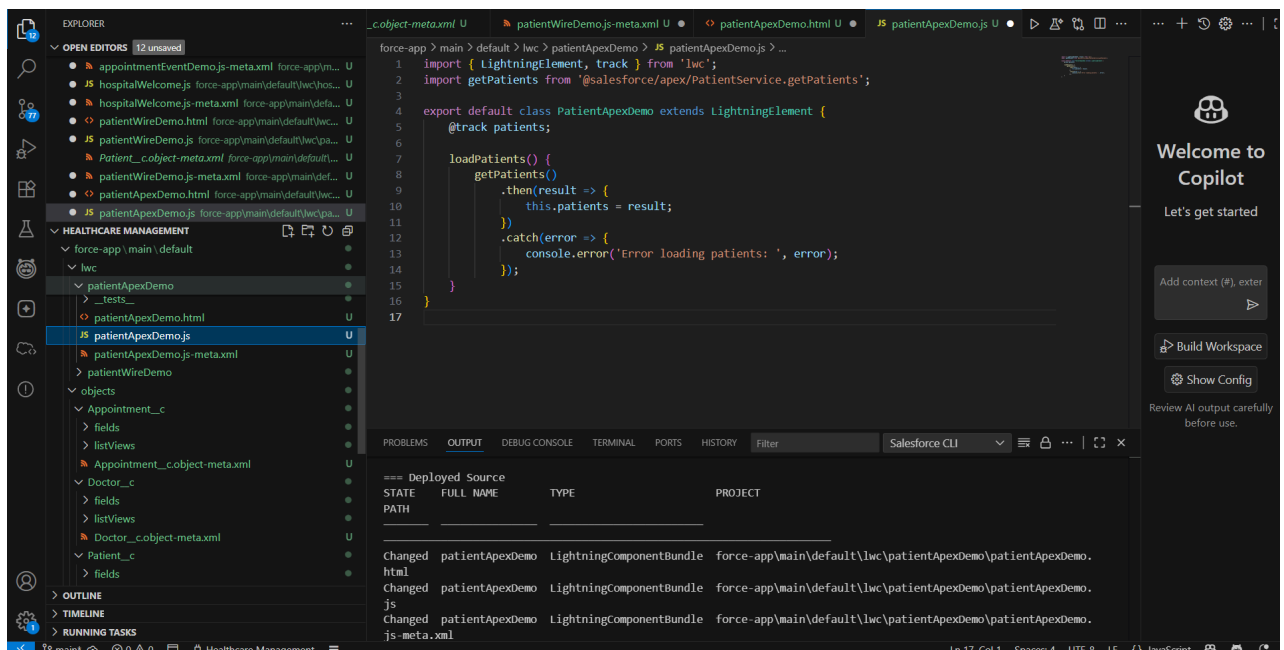
## 9. Wire Adapters

- Used **@wire decorator** in LWCs to call Apex methods and display records dynamically.
- Example: Appointment list automatically fetches data via wire.



## 10. Imperative Apex Calls

- Added **imperative calls** in LWC for button-triggered actions.
- Example: Fetch patients on button click instead of auto-loading.



## 11. Navigation Service

- Used **NavigationMixin** in LWC to navigate to record pages.
- Example: Clicking on a Patient in patientList navigates to their detailed record page.