

# Phase 6: User Interface Development

## 6.1 Lightning App Builder Configuration

### 6.1.1 Create Custom App

- **App Label:** Clinic Management
- **Developer Name:** Clinic\_Management
- **Description:** Complete clinic management system for healthcare providers
- **Navigation Style:** Console
- **Utility Items:** Notes, History, Recent Items
- **Navigation Items:** Home, Patients (Contacts), Doctors, Appointments, Medical Cases, Bills, Reports, Dashboards

### 6.1.2 Custom Record Pages

- **Patient (Contact) Record Page**  
Template: Record Page (Clone from Standard Contact Record Page)  
Sections:
    - Patient Information → Name, Email, Phone, Birthdate, Address, Emergency Contact, Insurance
    - Medical Summary → Recent Appointments, Active Medical Cases, Outstanding BillsSidebar: Activity Timeline, Quick Actions (New Appointment, New Case, Send Message), Files and Notes
  - **Appointment Record Page**  
Template: Record Page  
Sections:
    - Appointment Details → Patient, Doctor, Date, Time, Status, Type, Duration, Reason for Visit
    - Medical Information → Related Medical Case, Notes, Instructions, Follow-ups
    - Related Records → Bills, Tasks, FilesSidebar: Path (Status), Activity Timeline, Quick Actions (Complete, Reschedule, Cancel, Create Case)
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## 6.2 Lightning Web Components (LWC)

### 6.2.1 Doctor Availability Calendar Component

**Purpose:** Allow staff to view doctor availability, search patients, and book appointments directly.

- **Files:**  
doctorAvailabilityCalendar.html, doctorAvailabilityCalendar.js, doctorAvailabilityCalendar.css, doctorAvailabilityCalendar.js-meta.xml
  - **Features:**
    - Select doctor from combobox (active doctors only)
    - Select date (future only)
    - Display available time slots with status indicators
    - Search patients by name or email
    - Booking form with Appointment Type & Reason for Visit
    - Toast messages for success/error feedback
  - **Key UI Behaviors:**
    - Available slots → displayed as buttons (success = available, neutral = booked, brand = selected)
    - Booking form shows only after selecting a time slot
    - Appointment booking triggers Apex `createAppointment` and refreshes slots
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## 6.3 Apex Controller (DoctorAvailabilityController)

**Purpose:** Backend logic for LWC to fetch doctors, check slots, search patients, and create appointments.

- **Methods (exposed to LWC):**
    - `getDoctors()` → fetch active doctors with specialization
    - `getAvailableSlots(doctorId, selectedDate)` → return available times
    - `searchPatients(searchTerm)` → return patients matching name/email
    - `createAppointment(appointmentData)` → create new appointment record
- 

## This is My project LMC code (In preogress)

### 1) Appointment

#### fileUploadExample.html

```
<template>
  <lightning-card title="Upload Medical Report" icon-
name="custom:custom63">
    <div class="slds-m-around_medium">
      <lightning-file-upload
        label="Attach Files"
        name="fileUploader"
        accept=".pdf,.png,.jpg,.jpeg"
        record-id={recordId}>
```

```

                onuploadfinished={handleUploadFinished}
                multiple>
            </lightning-file-upload>
        </div>
    </lightning-card>
</template>

```

### fileUploadExample.js

```

import { LightningElement, api } from 'lwc';
import { ShowToastEvent } from 'lightning/platformShowToastEvent';

export default class FileUploadExample extends LightningElement {
    @api recordId; // Attach files to a record, e.g., Patient__c or
    Appointment__c

    handleUploadFinished(event) {
        // Get uploaded file details
        const uploadedFiles = event.detail.files;
        let fileNames = uploadedFiles.map(file => file.name).join(', ');

        // Show success message
        this.dispatchEvent(
            new ShowToastEvent({
                title: 'Files Uploaded',
                message: fileNames + ' uploaded successfully!',
                variant: 'success',
            })
        );
    }
}

```

### fileUploadExample.js-meta.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
    <apiVersion>59.0</apiVersion>
    <isExposed>true</isExposed>
    <targets>
        <target>lightning__RecordPage</target>
        <target>lightning__AppPage</target>
    </targets>
</LightningComponentBundle>

```

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## VS code setup and LWC Code

