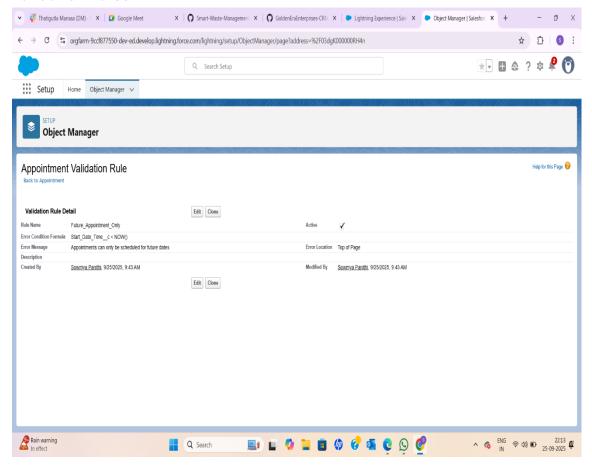
Phase 4: Process Automation (Admin)

Project Title: Hospital Management System - Salesforce CRM

1. Validation Rules



Quick data quality checks for healthcare records:

Patient Object:

- Birth date cannot be future: Date_of_birth__c > TODAY()
- Blood group required for critical patients: ISBLANK(Blood_Group__c) && Emergency_Status__c = "Critical"

Doctor Object:

- Fee range validation: Consultation_Fee__c <= 0 OR Consultation_Fee__c > 10000
- Availability logic: Availability_To__c <= Availability_From__c

Appointment Object:

- Future appointments only: Start_Date_Time__c < NOW()
- Fee must match doctor rate: Fee c!= Doctor r.Consultation Fee c

Steps: Setup → Object Manager → Select Object → Validation Rules → New

2. Process Builder

Reference: Screenshots 1 & 2 - Process Builder implementations for "Daily Health Reports" and "Emergency Response Process"

Key Processes Created:

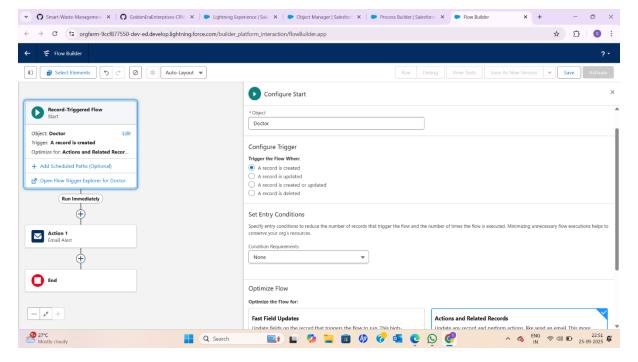
Daily Health Reports (Screenshot 1)

- Trigger: Doctor object with AI Prediction Event
- Actions:
 - Email alert (TRUE path)
 - Scheduled actions for daily reports
- Purpose: Automated morning briefings to medical staff

Emergency Response Process (Screenshot 2)

- Trigger: Doctor object with emergency criteria
- Actions: Immediate notifications to emergency team
- Purpose: Rapid response for critical situations

Steps: Setup → Process Builder → New → Define criteria → Add actions → Activate



3. Flow Builder

Reference: Screenshot 3 - Flow Builder interface showing Record-Triggered Flow configuration

Flow Configuration Shown:

• **Object:** Doctor (as shown in screenshot)

• **Trigger:** A record is created (selected option)

• Optimization: Actions and Related Records

Actions: Email Alert → End

Key Flows for Hospital System:

• Doctor Registration Flow: Auto-notify admin when new doctor added

• Patient Check-in Flow: Update appointment status when patient arrives

• **Discharge Process Flow:** Generate discharge summary and follow-up tasks

Steps: Setup → Flows → New Flow → Configure trigger → Add elements → Save & Activate

4. Field Relationships

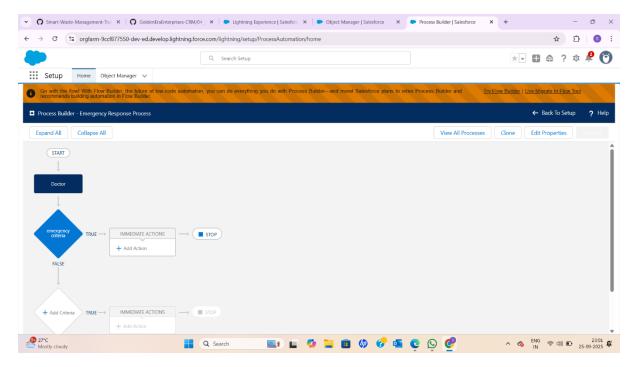
Reference: Screenshot 4 - Appointment object showing Doctor and Patient lookup relationships

Critical Relationships Configured:

- **Doctor** (Lookup to Doctor object) Links appointments to healthcare providers
- Patient (Lookup to Patient object) Links appointments to patients
- **Fee** (Currency field) Consultation charges
- Start Date/Time (DateTime field) Appointment scheduling

These relationships enable:

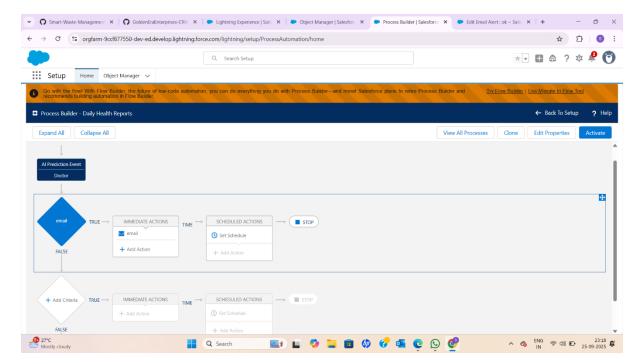
- Automated appointment confirmations
- Doctor availability tracking
- Patient communication workflows
- Billing process automation



5. Email Alerts

Automated Communications:

- Appointment Confirmations: Patient receives booking details
- Emergency Alerts: Medical staff notified of critical patients
- Daily Reports: Department heads get morning briefings
- Schedule Changes: Auto-notify when doctor unavailable



6. Key Automation Benefits

Patient Safety: Validation rules prevent data errors **Efficiency:** Process Builder automates routine tasks

Communication: Email alerts keep everyone informed **Compliance:** Approval processes ensure proper authorization **Real-time Updates:** Flows handle complex multi-step processes