

# Phase 4: Process Automation (Declarative)

## 4.1 Validation Rules

### 1. No Past Date Appointments

- Object: Appointment
- Rule Name: No\_Past\_Date\_Appointments
- Error Condition Formula: Appointment\_Date\_\_c < TODAY()
- Error Message: "Appointment date cannot be in the past"
- Error Location: Appointment\_Date\_\_c field

### 2. Doctor Availability Check

- Object: Appointment
- Rule Name: Check\_Doctor\_Working\_Hours
- Error Condition Formula:

```
NOT (
  INCLUDES (Doctor__r.Available_Days__c,
    TEXT (CASE (WEEKDAY (Appointment_Date__c),
      1, "Sunday", 2, "Monday", 3, "Tuesday",
      4, "Wednesday", 5, "Thursday", 6, "Friday", 7, "Saturday", ""
    ))
  )
)
```

- Error Message: "Selected doctor is not available on this day"

### 3. Bill Amount Validation

- Object: Bill Information
- Rule Name: Paid\_Amount\_Cannot\_Exceed\_Total
- Error Condition Formula: Amount\_Paid\_\_c > Total\_Amount\_\_c
- Error Message: "Amount paid cannot exceed total bill amount"

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## 4.2 Workflow Rules (Classic Workflow)

### Appointment Confirmation Workflow

- Object: Appointment
- Rule Name: Send Appointment Confirmation

- Evaluation Criteria: Created, and every time it's edited
  - Rule Criteria: `Status = "Scheduled" OR Status = "Confirmed"`
  - Immediate Actions:
    - Email Alert: Send confirmation email to patient
    - Field Update: Set `Reminder_Sent__c = True`
    - Task Creation: Create follow-up task for admin staff
- 

## 4.3 Process Builder Processes

### 1. New Patient Registration Process

- Process Name: New Patient Registration
- Object: Contact
- Start Process: When a record is created or edited
- Criteria: `Record Type = "Active Patient" AND Is Changed = True`
- Actions:
  - Create Task: Assigned to Administrative Staff, Subject: "Complete patient registration for [Patient Name]", Priority: High
  - Send Email: Template: Welcome to Clinic Email, To: Patient Email

### 2. Appointment Status Update Process

- Process Name: Appointment Status Updates
  - Object: Appointment
  - Criteria: `Status = "Completed" AND ISCHANGED(Status__c)`
  - Actions:
    - Create Medical Case Record: Patient = `[Appointment].Patient__c`, Doctor = `[Appointment].Doctor__c`, Related Appointment = `[Appointment].Id`, Case Status = "Open", Case Date = `TODAY()`
    - Create Bill Information Record: Patient = `[Appointment].Patient__c`, Related Appointment = `[Appointment].Id`, Doctor = `[Appointment].Doctor__c`, Consultation Fee = `[Appointment].Doctor__r.Consultation_Fee__c`, Bill Date = `TODAY()`, Payment Status = "Pending"
- 

## 4.4 Flow Builder Implementation

### 1. Appointment Booking Flow

- Flow Type: Screen Flow
- Flow Name: Patient Appointment Booking
- Screens & Components:

1. Patient Selection: Lookup (Object: Contact, Filter: Record Type = "Active Patient", Required: Yes, Store in Variable: `selectedPatient`)
  2. Doctor & Date Selection: Picklist (Doctor Selection → `selectedDoctor`), Date Input (`appointmentDate`, must be future), Time Input (`appointmentTime`)
  3. Appointment Details: Picklist (Appointment Type), Text Area (Reason for Visit, Additional Notes)
- Flow Logic:
    - Decision Element: Check Doctor Availability
    - Create Records: Create Appointment Record
    - Email Alert: Send confirmation email
    - Screen: Display confirmation message

## 2. Patient Check-in Flow

- Flow Type: Screen Flow
- Flow Name: Patient Check-in Process
- Trigger: When patient arrives for appointment
- Screens & Components:
  1. Search Patient: Lookup to find today's appointments (Filter: Appointment Date = `TODAY()` AND Status = "Scheduled")
  2. Update Appointment Status: Automatically update Status → "In Progress", Create arrival timestamp

Validation Rule screenshot

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Appointment\_Type

Regular Consultation

Status

In Progress

Reason for Visit

Notes

Reminder Sent☐


Created Via

--None--

ⓘ We hit a snag.

Review the errors on this page.

- this not doctor valid appointment time



Cancel

Save & New

Save