# **Project Documentation**

# Hospital Appointment & Health Tracker System on Salesforce

# Phase 9: Reporting, Dashboards & Security Review

## 1. Introduction

In this phase, we design **reports and dashboards** to provide meaningful hospital insights, and we perform a **security review** to ensure compliance with healthcare standards (HIPAA/GDPR).

The goal is to provide **real-time visibility** into patient care, doctor performance, and hospital efficiency while maintaining **data privacy and security**.

# 2. Reports

A. A variety of reports are developed to give different perspectives on hospital operations.

- Appointments by Doctor  $\rightarrow$  Shows the number of appointments handled by each doctor.
- Appointments by Department → Tracks workload across hospital departments.
- Missed vs Completed Appointments → Monitors patient engagement and attendance.

#### B. Patient Reports

- Patient Visit History → Displays appointment and health record details for each patient.
- New Patients Registered per Month → Helps track patient growth trends.

## C. Health Record Reports

- **Prescriptions by Doctor** → Summarizes medication prescribed by doctors.
- Lab Reports Pending vs Completed → Tracks turnaround time for diagnostic results.

#### D. Administrative Reports

- **Doctor Availability & Utilization** → Shows how efficiently doctors' schedules are being used.
- **Department Performance** → Measures department-wise appointments, surgeries, and outcomes.

# 3. Report Types

- Standard Report Types → For basic reports (Patients, Appointments).
- Custom Report Types → For complex analysis (Appointments with Doctors and Departments, Health Records linked to Appointments).

## 4. Dashboards

#### A. Patient Dashboard

- Upcoming Appointments.
- Health Tracker (last 5 records).
- Notifications (Reminders, Reports Ready).

#### B. Doctor Dashboard

- Today's Appointments.
- Pending Health Records.
- Patient Follow-ups.

#### C. Admin Dashboard

- Department Workload (Appointments per Department).
- Doctor Utilization.
- Hospital KPIs (Total Patients, Appointments Completed, Missed Appointments).

## D. Dynamic Dashboards

- Patient-specific → Displays only the logged-in patient's data.
- Doctor-specific → Shows appointments and reports only for that doctor.

# 5. Security Review

# A. Sharing Settings

- Private OWD (Organization-Wide Defaults) for Patient and HealthRecord objects.
- Sharing rules for Doctors to view only their own appointments.

## B. Field Level Security

- Sensitive data like *Diagnosis*, *Prescription*, *Reports* visible only to authorized doctors.
- Patient personal data masked for non-clinical staff.

## C. Session Settings

- Enforce login session timeouts.
- Enable multi-factor authentication (MFA) for doctors and admins.

# D. Login IP Ranges

- Restrict logins to hospital networks for Admin users.
- Allow patient portal logins from anywhere with OAuth authentication.

#### E. Audit Trail

- Track all critical changes (Appointment cancellations, HealthRecord updates).
- Maintain compliance logs for healthcare audits.

# 6. Benefits of Reporting & Security Review

- Provides **real-time insights** into hospital operations.
- Helps doctors **track patient progress** and follow-ups.
- Improves decision-making for hospital administrators.
- Protects sensitive health data with strict security controls.
- Ensures compliance with healthcare regulations.

#### Phase 9 Deliverable:

Created custom & standard reports for Patients, Doctors, Appointments, and Health Records.

Built dynamic dashboards for Patients, Doctors, and Admins.

Configured sharing settings, field-level security, and session policies.

Implemented audit trails and login restrictions for data protection.

This prepares the system for the final Phase 10: Presentation & Demo Day.