**🏥 Hospital Appointment & Health Tracker System**

**📌 Overview**

This project is a **Salesforce-based Hospital Management Application** that helps manage **patient appointments, doctor schedules, and health records**.  
It is designed to improve hospital efficiency, reduce manual work, and provide real-time updates for patients and doctors.

The project was developed as part of a **Salesforce Implementation Learning Project** and follows structured phases (Admin + Developer tasks).

**🚀 Features**

* **Patient Management** → Store patient profiles and medical history.
* **Doctor Management** → Manage specialization, availability, and schedules.
* **Appointment Booking** → Patients can book, reschedule, or cancel appointments.
* **Health Records** → Track symptoms, diagnosis, prescriptions, and lab reports.
* **Notifications & Reminders** → Automated email/SMS reminders for patients and doctors.
* **Dashboards & Reports** → Real-time insights for Admins, Doctors, and Patients.
* **Integrations** → External Lab Systems, Wearable Health Devices (Fitbit, Apple Health).
* **Security & Compliance** → Data sharing rules, field-level security, and audit trails.

**🛠️ Technologies Used**

* **Salesforce Platform**
  + Custom Objects (Patient, Doctor, Appointment, Health Record, Department)
  + Process Automation (Validation Rules, Flows, Approval Processes)
  + Apex Programming (Triggers, Batch Apex, Queueable Apex, Scheduled Jobs)
  + Lightning Web Components (LWC) for custom UI
  + Reports & Dashboards
  + Salesforce Connect, Platform Events, Change Data Capture

**📂 Project Phases**

The project was developed in **10 structured phases**:

1. Problem Understanding & Industry Analysis
2. Org Setup & Configuration
3. Data Modeling & Relationships
4. Process Automation (Admin)
5. Apex Programming (Developer)
6. User Interface Development (LWC & Lightning Pages)
7. Integration & External Access
8. Data Management & Deployment
9. Reporting, Dashboards & Security Review
10. Final Presentation & Demo Day

**⚙️ Setup & Installation**

1. Sign up for a **Salesforce Developer Org** → https://developer.salesforce.com/signup
2. Clone this repository:
3. git clone https://github.com/your-username/hospital-appointment-health-tracker.git
4. Open project in **VS Code** with Salesforce Extensions.
5. Authorize your Salesforce Org:
6. sfdx force:auth:web:login -a HospitalProject
7. Deploy metadata to Salesforce:
8. sfdx force:source:push -u HospitalProject
9. Assign required permission sets to users (Patient, Doctor, Admin).

**📊 Demo & Screenshots**

* **Patient Dashboard** → Upcoming appointments, health records, notifications.
* **Doctor Dashboard** → Today’s schedule, pending health records, follow-ups.
* **Admin Dashboard** → Department overview, KPIs, approvals.

(*Add screenshots or demo video link here*)

**🔒 Security & Compliance**

* Field-level security for sensitive health data.
* Role-based access for Patients, Doctors, and Admins.
* Audit Trail for critical actions.
* Configured with healthcare compliance in mind (HIPAA/GDPR).

**👨‍💻 Author**

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**⭐ Contribution**

This is a **learning project**, but contributions are welcome!

* Fork the repo
* Create a new branch
* Submit a pull request

**📜 License**

This project is licensed under the **MIT License** – free to use and modify.