# Healthcare Microservices Application - README

## 📌 Features

* 🧑‍⚕️ Patient Demographics Service (MySQL)
* 📓 Doctor Notes Service (MongoDB)
* 📄 Report Generator Service
* 🐳 Dockerized Setup for all services including DBs

## 🔧 Tech Stack

* Java 17, Spring Boot 3, REST APIs
* MySQL and MongoDB for data storage
* Docker & Docker Compose for containerization
* Maven, Git, Postman for build and testing
* JUnit, Mockito (planned for testing)

## 🧱 Microservices Breakdown

* 1️⃣ patient-demographics-service: CRUD APIs for patient data in MySQL
* 2️⃣ dr-notes-service: Unstructured notes in MongoDB with REST APIs
* 3️⃣ report-generator-service: Aggregates data and generates JSON health reports

## 🚀 Getting Started

* Clone the repo and navigate to project directory
* Build each service with Maven
* Run all services using Docker Compose
* Use Postman to test APIs

## 📂 Project Structure

* healthcare-microservices/
* ├── patient-demographics/
* ├── dr-notes/
* ├── report-generator/
* ├── docker-compose.yml
* └── README.md

## 🛣️ Future Enhancements

* Add Swagger UI documentation
* Add JUnit + Mockito test coverage
* PDF export for reports
* Add Spring Security with JWT

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