

Project Presentation

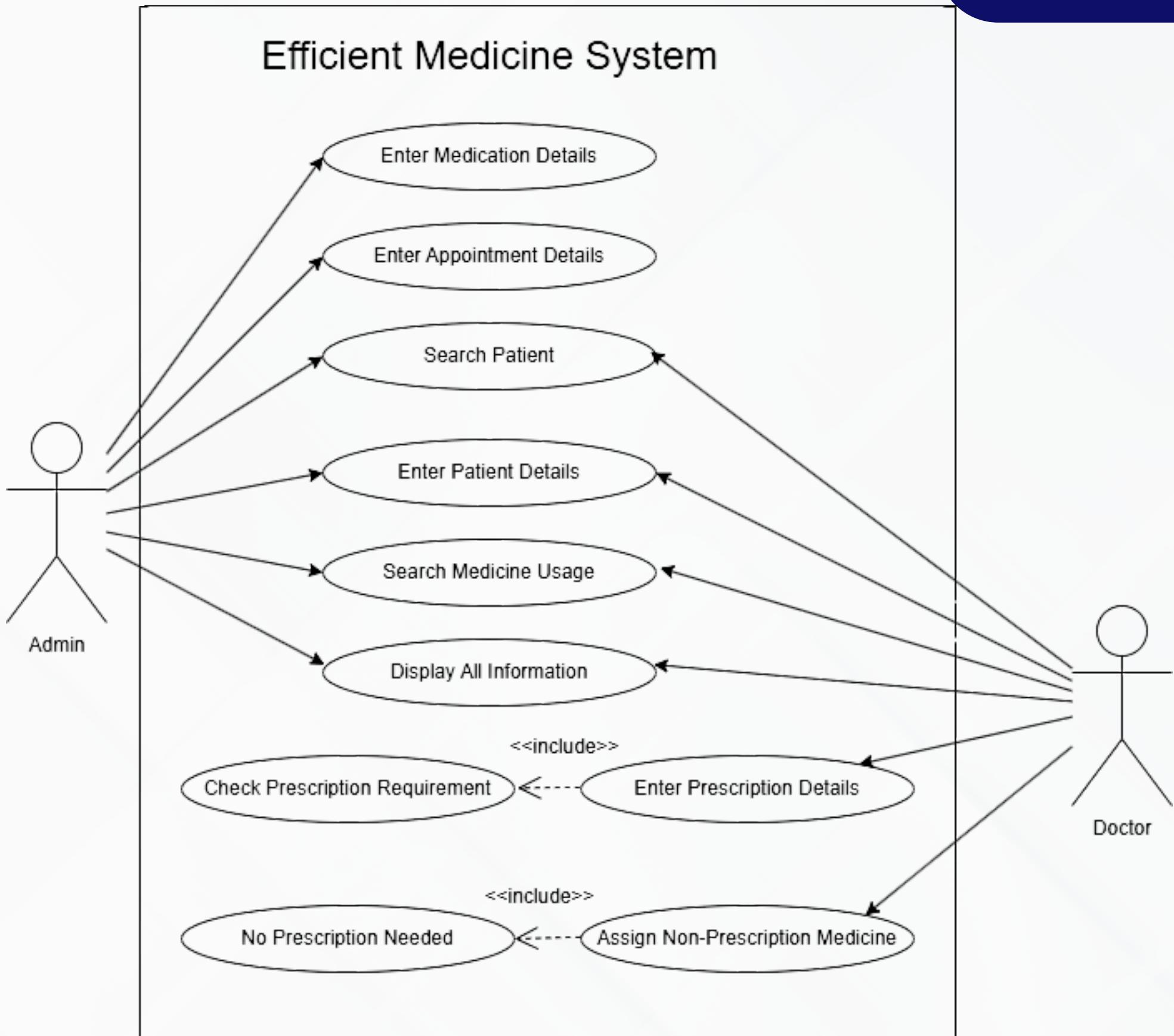
Subject: SECJ2154-01 PENGATURCARAAN BERORENTASIKAN
OBJEK (OBJECT ORIENTED PROGRAMMING)

Group Name	WEBUG
Group Members	<ol style="list-style-type: none">1. MUHAMMAD AMIRUN IRFAN BIN SAMSUL SHAH (A23CS0121)2. MUHAMMAD HAFIZ BIN MOHD SHAHARUDDIN (A23CS0130)3. RAVINESH A/L MARAN (A23CS0175)4. WELSON WOONG LU BIN (A23CS0196)
Section	01
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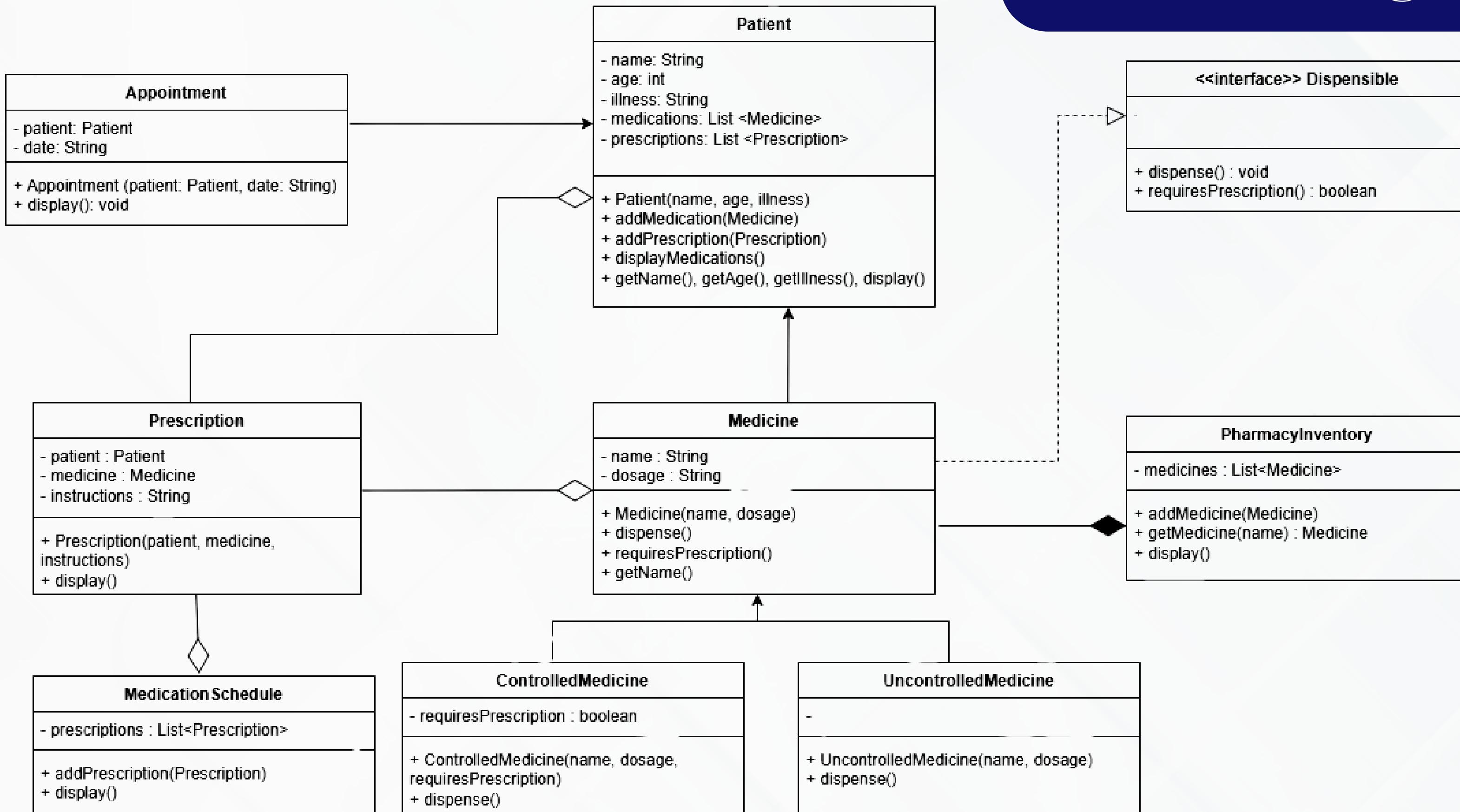
Introduction

The Efficient Medicine System class diagram models the structure and relationships of classes involved in managing patient medication efficiently in a hospital environment. The system enables doctors to prescribe and assign medications while keeping track of prescriptions, appointments, and pharmacy inventory. This supports better medication tracking and patient safety, contributing to Sustainable Development Goal (SDG) 3: Good Health and Well-Being.

Use Case Diagrams



Class Diagram



Task Allocations

NAME	TASK
MUHAMMAD AMIRUN IRFAN BIN SAMSUL SHAH	<ol style="list-style-type: none">Implemented Patient classHandled Patient registration and search logicManaged Appointment scheduling functionalityWrote report section on Patient class, Appointment class, and Association relationships
MUHAMMAD HAFIZ BIN MOHD SHAHARUDDIN	<ol style="list-style-type: none">Implemented Medicine, ControlledMedicine, UncontrolledMedicine classesDesigned PharmacyInventory and medicine searchWrote report section on Inheritance, Polymorphism, and Inventory clas
RAVINESH A/L MARAN	<ol style="list-style-type: none">Implemented Prescription and MedicationSchedule classesDeveloped Prescription logic with validation and instruction handlingWrote report section on Aggregation, Prescription module, and SDG 3 relevance
WELSON WOONG LU BIN	<ol style="list-style-type: none">Developed Dispensible interfaceIntegrated interface implementation and exception handling across the systemCoordinated main program logic and menu navigationWrote report section on Interface and Implementation, Exception Handling, and Conclusion

Conclusion

The Efficient Medicine System uses Object-Oriented Programming (OOP) to manage patients, medicines, prescriptions, and appointments efficiently.

By applying concepts like inheritance, polymorphism, and exception handling, the system becomes organized, reusable, and easy to maintain. It also supports SDG 3: Good Health and Well-Being by improving how healthcare data is recorded and medicines are prescribed.

This system lays a strong foundation for future improvements like adding a user login system or connecting to a database.



Thank You