

Medical Center Management System

This is a standalone Java-based Medical Center Management System that allows users to manage medicines, prescriptions, and user registrations without any external dependencies. It runs in the command-line interface (CLI) and does not require any frameworks or databases.

Features

- ✓ Add/View Medicines
- ✓ Add/View Prescriptions
- ✓ Register/View Users
- ✓ Standalone (No Dependencies)
- ✓ Runs in Command Line (CLI)

How to Run the Program

❑ Save the File

Save the provided Java file as `MedicalCenterApplication.java`

🔗 Compile the Program

Run the following command to compile the Java file:

```
javac MedicalCenterApplication.java
```

🚀 Run the Program

After successful compilation, run the program using:

```
java MedicalCenterApplication
```

Usage Guide

Once the program starts, you will see a menu with options:

1. Add Medicine
2. View Medicines
3. Add Prescription
4. View Prescriptions
5. Register User
6. View Users
7. Exit

Select an option by entering the corresponding number and follow the prompts to add or view data.

Classes & Structure

- **MedicalCenterApplication** - Main entry point that controls the menu system.

- **Medicine** - Represents a medicine entry.
- **MedicineManager** - Handles adding and displaying medicines.
- **Prescription** - Represents a medical prescription.
- **PrescriptionManager** - Manages prescription storage and retrieval.
- **User** - Represents a registered user (Doctor, Pharmacist, Patient, etc.).
- **UserManager** - Handles user registration and viewing.
- **ClientDate** - Utility class to get the current formatted date.

Example Usage

Enter choice: 1

Enter Medicine Name: Paracetamol

Enter Medicine Type: Tablet

Enter Quantity: 50

Enter Location: Shelf A

Medicine Added Successfully!

Exit the Program

To exit the program, enter 7 at the main menu:

Enter choice: 7

Exiting System...

Troubleshooting

- Ensure you have **Java installed** (java -version to check)
- If you see **compilation errors**, check for typos or missing braces {}
- If the program **does not run**, ensure you are in the correct directory before running
java MedicalCenterApplication

Author

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