

## **Project Setup Instructions**

### **1. Unpack the Project Files:**

- Download and unzip the project package. Make sure all necessary files are available in the project directory, including `staff.txt`, `patients.txt`, and `inventory.txt`.

### **2. Pre-populated Data:**

- **Staff Information** (`staff.txt`): The project comes with a pre-populated list of staff members for easier implementation. This includes various doctors, an administrator, a receptionist, and a pharmacist. The administrator has the option to add new staff, but this step has been streamlined by the existing data.
  - **Administrator Login Details:**
    - User ID: `1`
    - Password: `admin123`
  - **Note:** Only one administrator exists in the system with the credentials mentioned above. This administrator has full control over adding new staff, medicines, and managing inventory.
- **Inventory Information** (`inventory.txt`): Some medicines have been pre-added to the inventory to simplify implementation. This inventory file includes fields like medicine ID, name, quantity, etc.
  - **Adding Medicines:** When a doctor prescribes a medicine that is not available in the inventory, the pharmacist is notified of its absence while attempting to dispense it. The pharmacist then sends a replenishment request to the administrator for the specific medicine. Upon reviewing the request, the administrator is provided with the option to add the requested medicine to the inventory before approving the replenishment.
- **Patient Information** (`patients.txt`): The project includes pre-existing patient records to facilitate initial testing. New patients can be registered as needed.

### **3. Starting the Application:**

#### **Note:**

You may need to press the <Enter> key twice **sometimes** to go back to a menu whenever prompted.

- Launch the main program file (e.g., `Main.java` or equivalent), which should initialize the system and load the pre-existing data from the text files.
- **Login as Different Roles:** Test the system by logging in with various roles:
  1. **Administrator**: Use the administrator credentials (User ID: `1`, Password: `admin123`) to access full system functionality for managing staff and inventory.
  2. **Patient**: Can use pre-existing credentials for patients to test appointment scheduling or can register new patients.
  3. **Other Roles (Doctor, Pharmacist, Receptionist)**: You can use the credentials listed in `staff.txt` to log in as a doctor, pharmacist, or receptionist and test role-specific functionalities. Alternatively, log in as the administrator to add new staff members and then test their login functionality.