

```

<?php
class PharmacyDatabase {
    private $host = "localhost";
    private $port = "3306";
    private $database = "pharmacy_portal_db";
    private $user = "root";
    private $password = "YourPassword"; // <- Replace with your real password
    private $connection;

    public function __construct() {
        $this->connect();
    }

    private function connect() {
        $this->connection = new mysqli(
            $this->host, $this->user, $this->password, $this->database, $this->port
        );

        if ($this->connection->connect_error) {
            die("Connection failed: " . $this->connection->connect_error);
        }
        // echo "Successfully connected to the database"; // Optional debug message
    }

    public function addPrescription($patientUserName, $medicationId, $dosageInstructions,
    $quantity) {
        $stmt = $this->connection->prepare(
            "SELECT userId FROM Users WHERE userName = ? AND userType = 'patient'"
        );
        $stmt->bind_param("s", $patientUserName);
        $stmt->execute();
        $stmt->bind_result($patientId);
        $stmt->fetch();
        $stmt->close();

        if ($patientId) {
            $stmt = $this->connection->prepare(
                "INSERT INTO Prescriptions (userId, medicationId, prescribedDate,
dosageInstructions, quantity)
                VALUES (?, ?, NOW(), ?, ?)"
            );

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    );
    $stmt->bind_param("iisi", $patientId, $medicationId, $dosageInstructions, $quantity);
    $stmt->execute();
    $stmt->close();
    // echo "Prescription added successfully"; // Optional
} else {
    echo "Failed to add prescription: patient not found.";
}
}

public function getAllPrescriptions() {
    $query = "
        SELECT p.prescriptionId, u.userName AS patientName, m.medicationName, m.dosage,
            p.dosageInstructions, p.quantity, p.prescribedDate
        FROM Prescriptions p
        JOIN Users u ON p.userId = u.userId
        JOIN Medications m ON p.medicationId = m.medicationId
        ORDER BY p.prescribedDate DESC
    ";
    $result = $this->connection->query($query);
    return $result->fetch_all(MYSQLI_ASSOC);
}

public function MedicationInventory() {
    $query = "SELECT * FROM MedicationInventoryView";
    $result = $this->connection->query($query);
    return $result->fetch_all(MYSQLI_ASSOC);
}

public function addUser($userName, $contactInfo, $userType) {
    $stmt = $this->connection->prepare("SELECT userId FROM Users WHERE userName =
?");
    $stmt->bind_param("s", $userName);
    $stmt->execute();
    $stmt->store_result();

    if ($stmt->num_rows === 0) {
        $stmt->close();

        $insert = $this->connection->prepare(

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        "INSERT INTO Users (userName, contactInfo, userType) VALUES (?, ?, ?)"
    );
    $insert->bind_param("sss", $userName, $contactInfo, $userType);
    $insert->execute();
    $insert->close();
} else {
    $stmt->close();
    echo "User already exists.";
}
}

public function getUserDetails($userId) {
    $stmt = $this->connection->prepare(
        "SELECT userId, userName, contactInfo, userType FROM Users WHERE userId = ?"
    );
    $stmt->bind_param("i", $userId);
    $stmt->execute();
    $userResult = $stmt->get_result()->fetch_assoc();
    $stmt->close();

    $prescriptions = [];
    $stmt2 = $this->connection->prepare(
        "SELECT p.prescriptionId, m.medicationName, p.dosageInstructions, p.quantity,
p.prescribedDate
        FROM Prescriptions p
        JOIN Medications m ON p.medicationId = m.medicationId
        WHERE p.userId = ?"
    );
    $stmt2->bind_param("i", $userId);
    $stmt2->execute();
    $result = $stmt2->get_result();
    while ($row = $result->fetch_assoc()) {
        $prescriptions[] = $row;
    }
    $stmt2->close();

    $userResult['prescriptions'] = $prescriptions;
    return $userResult;
}
}

```

?>

2. PHP Implementation

2.1 Database Connection (config.php)

php

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```
<?php
```

```
$servername = "localhost";
```

```
$username = "root";
```

```
$password = "";
```

```
$dbname = "pharmacy_portal_db";
```

```
// Create connection
```

```
$conn = new mysqli($servername, $username, $password, $dbname);
```

```
if ($conn->connect_error) {
```

```
    die("Connection failed: " . $conn->connect_error);
```

```
}
```

```
?>
```

2.2 Core Logic (PharmacyDatabase.php)

php

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```
// Add or Update User
```

```
function addUser($userName, $contactInfo, $userType) {
```

```
    global $conn;
```

```
    $stmt = $conn->prepare("CALL AddOrUpdateUser(?, ?, ?)");
```

```
    $stmt->bind_param("sss", $userName, $contactInfo, $userType);
```

```
    $stmt->execute();
```

```
}
```

```
// Add Medication
```

```
function addMedication($medicationName, $dosage, $manufacturer) {
```

```
    global $conn;
```

```
    $stmt = $conn->prepare("INSERT INTO Medications (medicationName, dosage, manufacturer) VALUES (?, ?, ?)");
```

```
    $stmt->bind_param("sss", $medicationName, $dosage, $manufacturer);
```

```
    $stmt->execute();
```

```
}
```

```
// Get User Details
```

```
function getUserDetails($userId) {  
    global $conn;  
    $stmt = $conn->prepare("SELECT * FROM Users WHERE userId = ?");  
    $stmt->bind_param("i", $userId);  
    $stmt->execute();  
    return $stmt->get_result()->fetch_assoc();  
}
```

2.3 Secure Login (login.php)

php

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```
<?php
```

```
session_start();
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // Get input data
```

```
    $username = $_POST['username'];
```

```
    $password = $_POST['password'];
```

```
    // Validate user (replace this with actual DB check)
```

```
    if ($username == 'admin' && password_verify($password, password_hash('admin',  
PASSWORD_DEFAULT))) {
```

```
        $_SESSION['username'] = $username;
```

```
        header('Location: dashboard.php');
```

```
    } else {
```

```
        echo "Invalid login!";
```

```
    }
```

```
}
```

```
?>
```

```
<form method="POST">
```

```
    Username: <input type="text" name="username" required><br>
```

```
    Password: <input type="password" name="password" required><br>
```

```
    <button type="submit">Login</button>
```

```
</form>
```

2.4 Dashboard Views

Patient Dashboard (dashboard_patient.php)

```
php
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<?php
// Patient Dashboard Logic
echo "Welcome to your Prescription Portal!";
?>
```

Pharmacist Dashboard (dashboard_pharmacist.php)

```
php
CopyEdit
<?php
// Pharmacist Dashboard Logic
echo "Welcome to the Pharmacy Dashboard!";
?>
```

3. Frontend Structure

Basic Structure Example

```
html
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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Pharmacy Portal</title>
</head>
<body>
  <header>
    <h1>Pharmacy Portal</h1>
    <nav>
      <a href="login.php">Login</a>
      <a href="register.php">Register</a>
    </nav>
  </header>
</body>
</html>
```