

```
!pip install flask flask_sqlalchemy flask_login pyngrok
```

```
Requirement already satisfied: flask in /usr/local/lib/python3.12/dist-packages (3.1.3)
Collecting flask_sqlalchemy
  Downloading flask_sqlalchemy-3.1.1-py3-none-any.whl.metadata (3.4 kB)
Collecting flask_login
  Downloading Flask_Login-0.6.3-py3-none-any.whl.metadata (5.8 kB)
Collecting pyngrok
  Downloading pyngrok-7.5.0-py3-none-any.whl.metadata (8.1 kB)
Requirement already satisfied: blinker>=1.9.0 in /usr/local/lib/python3.12/dist-packages (from flask) (1.9.0)
Requirement already satisfied: click>=8.1.3 in /usr/local/lib/python3.12/dist-packages (from flask) (8.3.1)
Requirement already satisfied: itsdangerous>=2.2.0 in /usr/local/lib/python3.12/dist-packages (from flask) (2.2.0)
Requirement already satisfied: jinja2>=3.1.2 in /usr/local/lib/python3.12/dist-packages (from flask) (3.1.6)
Requirement already satisfied: markupsafe>=2.1.1 in /usr/local/lib/python3.12/dist-packages (from flask) (3.0.3)
Requirement already satisfied: werkzeug>=3.1.0 in /usr/local/lib/python3.12/dist-packages (from flask) (3.1.6)
Requirement already satisfied: sqlalchemy>=2.0.16 in /usr/local/lib/python3.12/dist-packages (from flask_sqlalchemy) (2.0.47)
Requirement already satisfied: PyYAML>=5.1 in /usr/local/lib/python3.12/dist-packages (from pyngrok) (6.0.3)
Requirement already satisfied: greenlet>=1 in /usr/local/lib/python3.12/dist-packages (from sqlalchemy>=2.0.16->flask_sqlalchemy) (3.0.3)
Requirement already satisfied: typing-extensions>=4.6.0 in /usr/local/lib/python3.12/dist-packages (from sqlalchemy>=2.0.16->flask_sqlalchemy) (4.12.0)
Downloading flask_sqlalchemy-3.1.1-py3-none-any.whl (25 kB)
Downloading Flask_Login-0.6.3-py3-none-any.whl (17 kB)
Downloading pyngrok-7.5.0-py3-none-any.whl (24 kB)
Installing collected packages: pyngrok, flask_sqlalchemy, flask_login
Successfully installed flask_login-0.6.3 flask_sqlalchemy-3.1.1 pyngrok-7.5.0
```

```
%writefile app.py
```

```
Writing app.py
```

```
<h2>Add Doctor</h2>

<form method="post">
  <input name="name" placeholder="Doctor Name" required><br>
  <input name="username" placeholder="Username" required><br>
  <input name="password" placeholder="Password" required><br>
  <input name="specialization" placeholder="Specialization"><br>

  <select name="status">
    <option>Active</option>
    <option>Inactive</option>
  </select><br>

  <button type="submit">Add Doctor</button>
</form>
```

```
ERROR:pyngrok.process.ngrok:t=2026-02-27T05:08:07+0000 lvl=error msg="failed to reconnect session" obj=tunnels.session err="authentication failed"
ERROR:pyngrok.process.ngrok:t=2026-02-27T05:08:07+0000 lvl=error msg="session closing" obj=tunnels.session err="authentication failed"
ERROR:pyngrok.process.ngrok:t=2026-02-27T05:08:07+0000 lvl=error msg="terminating with error" obj=app err="authentication failed"
CRITICAL:pyngrok.process.ngrok:t=2026-02-27T05:08:07+0000 lvl=crit msg="command failed" err="authentication failed: Usage of ngrok requires a verified account and auth token."
-----
```

```
PyngrokNgrokError Traceback (most recent call last)
```

```
/tmp/ipython-input-230/1733806384.py in <cell line: 0>()
```

```
1 from pyngrok import ngrok
2
----> 3 public_url = ngrok.connect(5000)
4 print("Click this link:", public_url)
5
```

3 frames

```
/usr/local/lib/python3.12/dist-packages/pyngrok/process.py in _start_process(pyngrok_config)
```

```
445
446     if ngrok_process.startup_error is not None:
--> 447         raise PyngrokNgrokError(f"The ngrok process errored on start: {ngrok_process.startup_error}.",
448                                ngrok_process.logs,
449                                ngrok_process.startup_error)
```

```
PyngrokNgrokError: The ngrok process errored on start: authentication failed: Usage of ngrok requires a verified account and auth token.
Sign up for an account: https://dashboard.ngrok.com/signup
Install your auth token: https://dashboard.ngrok.com/get-started/your-auth-token
ERR: NGROK 4018
```

Next steps: [Explain error](#)

```
{% extends "base.html" %}
{% block content %}
```

```
<div class="auth-page">
  <div class="auth-card">

    <h2>Edit Doctor</h2>
```

```

{% with messages = get_flashed_messages() %}
{% if messages %}
    {% for message in messages %}
        <div class="flash">{{ message }}</div>
    {% endfor %}
{% endif %}
{% endwith %}

<form method="POST">

    <label>Name</label>
    <input type="text" name="name" value="{{ doctor.name }}" required>

    <label>Username</label>
    <input type="text" name="username" value="{{ doctor.username }}" required>

    <label>Specialization</label>
    <input type="text" name="specialization" value="{{ doctor.specialization }}" required>

    <label>Status</label>
    <select name="status">
        <option value="Active" {% if doctor.status == 'Active' %}>selected{% endif %}>
            Active
        </option>
        <option value="Inactive" {% if doctor.status == 'Inactive' %}>selected{% endif %}>
            Inactive
        </option>
    </select>

    <label>New Password (optional)</label>
    <input type="password" name="password">

    <button type="submit" class="btn-primary">
        Update Doctor
    </button>

</form>

</div>
</div>

{% endblock %}

```

```

{% extends "base.html" %}
{% block content %}

<div class="auth-page">
    <div class="auth-wrapper">

        <div class="auth-brand">
            <h1>Admin Console</h1>
            <p>
                Manage hospital operations, staff, system settings,
                and monitor platform activity securely.
            </p>
        </div>

        <div class="auth-card">
            <h2>Admin Login</h2>

            {% with messages = get_flashed_messages() %}
            {% if messages %}
                {% for message in messages %}
                    <div class="flash">{{ message }}</div>
                {% endfor %}
            {% endif %}
            {% endwith %}

            <form method="POST">
                <label>Username</label>
                <input type="text" name="username" required>

                <label>Password</label>
                <input type="password" name="password" required>

                <button type="submit" class="btn-primary">Login</button>
            </form>
        </div>

    </div>
</div>

</div>

```

```
{% endblock %}
```

```
{% extends "base.html" %}
{% block content %}

<div class="auth-page">

    <div class="auth-wrapper">

        <!-- LEFT BRAND SECTION -->
        <div class="auth-brand">
            <h1>Patient Care Portal</h1>
            <p>
                Secure access to your medical records, prescriptions,
                and doctor consultations – all in one place.
            </p>
        </div>

        <!-- RIGHT LOGIN CARD -->
        <div class="auth-card">
            <h2>Patient Login</h2>

            {% with messages = get_flashed_messages() %}
            {% if messages %}
            {% for message in messages %}
                <div class="flash">{{ message }}</div>
            {% endfor %}
            {% endif %}
            {% endwith %}

            <form method="POST">
                <label>Username</label>
                <input type="text" name="username" required>

                <label>Password</label>
                <input type="password" name="password" required>

                <button type="submit" class="btn-primary">Login</button>
            </form>

            <p class="auth-footer">
                New patient?
                <a href="{{ url_for('register_patient') }}">Create an account</a>
            </p>
        </div>

    </div>

</div>

{% endblock %}
```

```
{% extends "base.html" %}
{% block content %}

<div class="auth-page">
    <div class="auth-wrapper">

        <div class="auth-brand">
            <h1>Pharmacy Portal</h1>
            <p>
                View prescriptions, manage medicine inventory,
                and ensure timely fulfillment.
            </p>
        </div>

        <div class="auth-card">
            <h2>Pharmacy Login</h2>

            {% with messages = get_flashed_messages() %}
            {% if messages %}
            {% for message in messages %}
                <div class="flash">{{ message }}</div>
            {% endfor %}
            {% endif %}
            {% endwith %}

            <form method="POST">
                <label>Username</label>
```

```

        <input type="text" name="username" required>

        <label>Password</label>
        <input type="password" name="password" required>

        <button type="submit" class="btn-primary">Login</button>
    </form>
</div>

</div>
</div>

{% endblock %}

```

```

{% extends "base.html" %}
{% block content %}

<h2>Patient Dashboard</h2>

<h3>Your Prescriptions</h3>

<table border="1" cellpadding="10">
<tr>
    <th>Medicine</th>
    <th>Dosage</th>
    <th>Notes</th>
</tr>

{% for pres in prescriptions %}
<tr>
    <td>{{ pres.medicine }}</td>
    <td>{{ pres.dosage }}</td>
    <td>{{ pres.notes }}</td>
</tr>
{% else %}
<tr>
    <td colspan="3">No prescriptions found</td>
</tr>
{% endfor %}
</table>

<hr>

<h3>Chat With Doctors</h3>

{% for doctor in doctors %}
    <a href="{{ url_for('chat', doctor_id=doctor.id) }}">
        <button>Chat with Dr. {{ doctor.name }}</button>
    </a>
    <br><br>
{% endfor %}

{% endblock %}

```