

## 1) Document type & html tag

```
<!doctype html>
```

```
<html lang="en">
```

1. Declares HTML5 document type so browsers render consistently.
  2. lang="en" helps accessibility and search engines know the document language.
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## 2) <head>: charset, viewport, and title

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width,initial-scale=1">
```

```
<title>{{ title|default("AI-AgroBot Pro v2") }}</title>
```

1. meta charset="utf-8" prevents encoding problems (emojis, non-ASCII).
2. viewport ensures responsive scaling on phones/tablets.
3. {{ title|default(...) }} — Jinja2 variable. If your route passes title="Chat", it'll show that; otherwise the default string appears.

### Flask usage example:

```
return render_template("chat.html", title="Chat with AgroBot")
```

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## 3) Favicons and static CSS

```
<link rel="icon" href="{{ url_for('static', filename='favicon.ico') }}" type="image/x-icon">
```

```
<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
```

```
</head>
```

1. url\_for('static', filename='...') builds correct static file URLs.
  2. Keep favicon.ico and style.css in your Flask static/ folder.
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## 4) <body> start and header wrapper

```
<body>
```

```
<header class="topbar">
```

1. header is semantic HTML — good for accessibility and layout.
  2. class="topbar" is purely for CSS styling in style.css.
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## 5) Branding block (logo + title)

```
<div class="brand">

  

  <div>

    <h1>AI-AgroBot</h1>

    <small>Pocket agronomist</small>

  </div>

</div>
```

1. Image bot.png should be in static/. alt helps screen readers.
2. h1 is main site title; small is subtitle.

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## 6) Navigation (dynamic with current\_user)

```
<nav class="nav">

  <a href="{{ url_for('index') }}">Chat</a>

  {% if current_user.is_authenticated %}

    <a href="{{ url_for('profile') }}">Profile</a>

    {% if current_user.role == 'admin' %}<a href="{{ url_for('admin_dashboard') }}">Admin</a>{%
endif %}

    <a href="{{ url_for('logout') }}">Logout</a>

  {% else %}

    <a href="{{ url_for('login') }}">Login</a>

    <a href="{{ url_for('register') }}">Register</a>

  {% endif %}

</nav>

</header>
```

1. current\_user is from **Flask-Login**. is\_authenticated returns True for logged-in users.
2. Show/hide links conditionally (e.g., Admin only appears when current\_user.role == 'admin').
3. url\_for('index') etc. should match your Flask route function names.

### Minimal Flask routes example:

```
@app.route('/')

def index(): return render_template('chat.html')
```

```
@app.route('/profile')

@login_required

def profile(): ...
```

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## 7) Main content & flash messages

```
<main class="main">

{% with msgs = get_flashed_messages(with_categories=true) %}

{% if msgs %}

<div class="flashes">

    {% for cat,msg in msgs %}

        <div class="flash {{cat}}">{{msg}}</div>

    {% endfor %}

</div>

{% endif %}

{% endwith %}

{% block content %}{% endblock %}

</main>
```

1. `get_flashed_messages(with_categories=true)` returns [(category, message), ...].
2. `{{cat}}` inserts the category as a CSS class: useful to show green vs red messages (`.flash.success`, `.flash.error`).
3. `{% block content %}` — placeholder for child templates to inject page-specific HTML.

### Flask flash usage:

```
from flask import flash, redirect, url_for

flash("Saved successfully!", "success")

return redirect(url_for("profile"))
```

### Child template example (chat.html):

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

{% block content %}

<h2>Chat with AgroBot</h2>

<!-- chat UI here -->
```

```
{% endblock %}
```

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## 8) Footer and JavaScript

```
<footer class="footer">© 2025 AI-AgroBot Pro</footer>
<script src="{{ url_for('static', filename='script.js') }}"></script>
</body>
</html>
```

1. Footer is static text — update the year if you want to make it dynamic.
2. script.js lives in static/. Put DOM-ready code or event listeners there (e.g., chat send button handler).

### Optional: dynamic year in footer

```
<footer class="footer">© {{ current_year }} AI-AgroBot Pro</footer>
```

And in your route:

```
from datetime import datetime
return render_template("chat.html", current_year=datetime.now().year)
```

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