### **Step 1: Document Declaration**

#### <!DOCTYPE html>

- Tells the browser this is an **HTML5 document**.
- Ensures modern browsers render the page correctly.

### **Step 2: Root HTML Element**

<html lang="en">

- The <html> tag wraps all HTML content.
- lang="en" tells the browser (and accessibility tools like screen readers) that the page is in **English**.

## **Step 3: Head Section**

```
<head>
<meta charset="utf-8">
<title>Agri Chatbot - Register</title>
link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
```

- <head>: Contains metadata and links, not visible content.
- 1. <meta charset="utf-8">  $\rightarrow$  ensures the page supports all characters like emojis, accents, etc.
- 2.  $\langle \text{title} \rangle \rightarrow \text{sets the browser tab title ("Agri Chatbot Register")}$ .
- 3. link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">
  - Links to the CSS file for styling.
  - {{ url\_for('static', filename='style.css') }} is Flask syntax that generates the URL to your style.css file in the static folder.

### **Step 4: Body Section**

<body class="bg">

- <body> contains all **visible content** of the page.
- class="bg" → applies **background styles** defined in CSS.

### **Step 5: Form Container**

<div class="auth-container">

- A <div> acts as a **box** around the registration form.
- class="auth-container" allows CSS to style it (e.g., centering, padding, border).

## **Step 6: Form Heading**

<h2>Create Account</h2>

• Simple heading that tells the user this is the account registration page.

## Step 7: Flash Messages (Flask)

```
{% with messages = get_flashed_messages(with_categories=true) %}
{% if messages %}
  {% for cat,msg in messages %}
   <div class="flash {{ cat }}">{{ msg }}</div>
  {% endfor %}
{% endif %}
```

{% endwith %}

- Flask feature to show **temporary messages** (success/error/info).
- 1. get\_flashed\_messages(with\_categories=true) → fetches messages stored on the server.
- 2.  $\{\% \text{ if messages } \%\} \rightarrow \text{checks if there are messages.}$
- 3.  $\{\% \text{ for cat,msg in messages } \%\} \rightarrow \text{loops through messages.}$
- 4.  $\langle \text{div class} = \text{flash } \{\{ \text{ cat }}\} = \{\{ \text{ msg }} \} / \text{div} \rightarrow \text{displays each message in a styled box, e.g.,}$ green for success, red for error.

#### **Step 8: Registration Form**

<form method="post">

- Begins a form.
- method="post" → data will be sent **securely** to the server.

#### **Username Field**

<input name="username" placeholder="Username" required>

- Input for the **username**.
- placeholder="Username" → gray hint text.
- required  $\rightarrow$  cannot submit the form empty.

#### **Password Field**

<input name="password" type="password" placeholder="Password" required>

- Input for **password**.
- type="password" → hides the characters.
- required → user must fill it.

### **Submit Button**

<button type="submit">Register</button>

• Button to **send the form data** to the server.

## Step 9: Login Link

Already have one? <a href="{{ url\_for('index') }}">Login</a>

- Paragraph guiding existing users to login instead of registering.
- {{ url\_for('index') }} → Flask generates the link to your login page.

## Step 10: Closing Tags

</div>

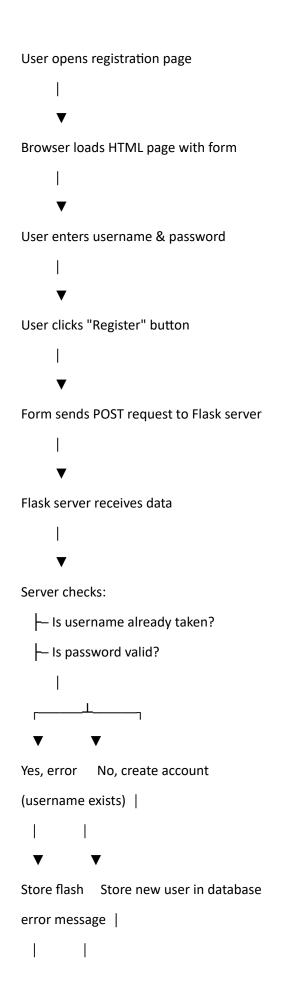
</body>

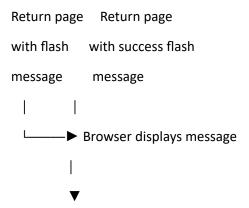
</html>

- Closes the form container <div>.
- Closes <body> and <html>.

# Summary of Flow for a User:

- 1. User opens page → sees **Create Account** form.
- 2. User enters username and password.
- 3. User clicks **Register**  $\rightarrow$  form sends data to Flask server.
- 4. Server processes the data.
- 5. If something is wrong (e.g., username exists), server sends a **flash message** → displayed on the page.
- 6. If successful  $\rightarrow$  account is created.





User sees success or error message on page