Build a Portfolio Website with Flask Objective: Create a personal portfolio site.

Tools : Python, Flask, HTML, CSS

Deliverables: Flask project folder

Got it — you want a **personal portfolio website** using **Flask**.  
I’ll walk you through the setup, the folder structure, and the code so you can have a clean, working site that you can expand later with your own projects and details.

**1. Project Structure**

Here’s a simple recommended folder layout:

portfolio/

│

├── app.py

├── requirements.txt

├── templates/

│ ├── index.html

│ ├── about.html

│ └── projects.html

└── static/

├── css/

│ └── style.css

└── images/

└── your\_photo.jpg

**2. Install Flask**

In your terminal:

pip install flask

(Optional but recommended: create a virtual environment first.)

**3. Flask Backend (app.py)**

from flask import Flask, render\_template

app = Flask(\_\_name\_\_)

@app.route('/')

def home():

return render\_template("index.html")

@app.route('/about')

def about():

return render\_template("about.html")

@app.route('/projects')

def projects():

return render\_template("projects.html")

if \_\_name\_\_ == "\_\_main\_\_":

app.run(debug=True)

**4. HTML Templates**

**templates/index.html**

<!DOCTYPE html>

<html>

<head>

<title>My Portfolio</title>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/style.css') }}">

</head>

<body>

<header>

<h1>Hi, I'm [Your Name]</h1>

<nav>

<a href="/">Home</a>

<a href="/about">About</a>

<a href="/projects">Projects</a>

</nav>

</header>

<section>

<h2>Welcome to my portfolio!</h2>

<p>This site showcases my work and skills in software development.</p>

</section>

</body>

</html>

**templates/about.html**

<!DOCTYPE html>

<html>

<head>

<title>About Me</title>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/style.css') }}">

</head>

<body>

<header>

<h1>About Me</h1>

<nav>

<a href="/">Home</a>

<a href="/about">About</a>

<a href="/projects">Projects</a>

</nav>

</header>

<section>

<img src="{{ url\_for('static', filename='images/your\_photo.jpg') }}" alt="My Photo" style="width:150px;">

<p>Hello! I'm [Your Name], a developer passionate about building impactful projects.</p>

</section>

</body>

</html>

**templates/projects.html**

<!DOCTYPE html>

<html>

<head>

<title>My Projects</title>

<link rel="stylesheet" href="{{ url\_for('static', filename='css/style.css') }}">

</head>

<body>

<header>

<h1>Projects</h1>

<nav>

<a href="/">Home</a>

<a href="/about">About</a>

<a href="/projects">Projects</a>

</nav>

</header>

<section>

<h2>Here are some of my projects:</h2>

<ul>

<li>Project 1 - Description</li>

<li>Project 2 - Description</li>

<li>Project 3 - Description</li>

</ul>

</section>

</body>

</html>

**5. CSS Styling (static/css/style.css)**

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

}

header {

background: #333;

color: white;

padding: 15px;

text-align: center;

}

header nav a {

color: white;

margin: 0 10px;

text-decoration: none;

}

header nav a:hover {

text-decoration: underline;

}

section {

padding: 20px;

}

**6. Run the App**

In your terminal, inside the portfolio folder:

python app.py

Open http://127.0.0.1:5000 in your browser to view your site.

**Next Steps**

* Add a **contact form** that sends messages to your email.
* Make the site **responsive** using Bootstrap or Tailwind CSS.
* Host it on **Render**, **Railway**, or **PythonAnywhere** for free.

If you want, I can **extend this with a contact form + database integration** so visitors can message you directly from your portfolio. Would you like me to add that?