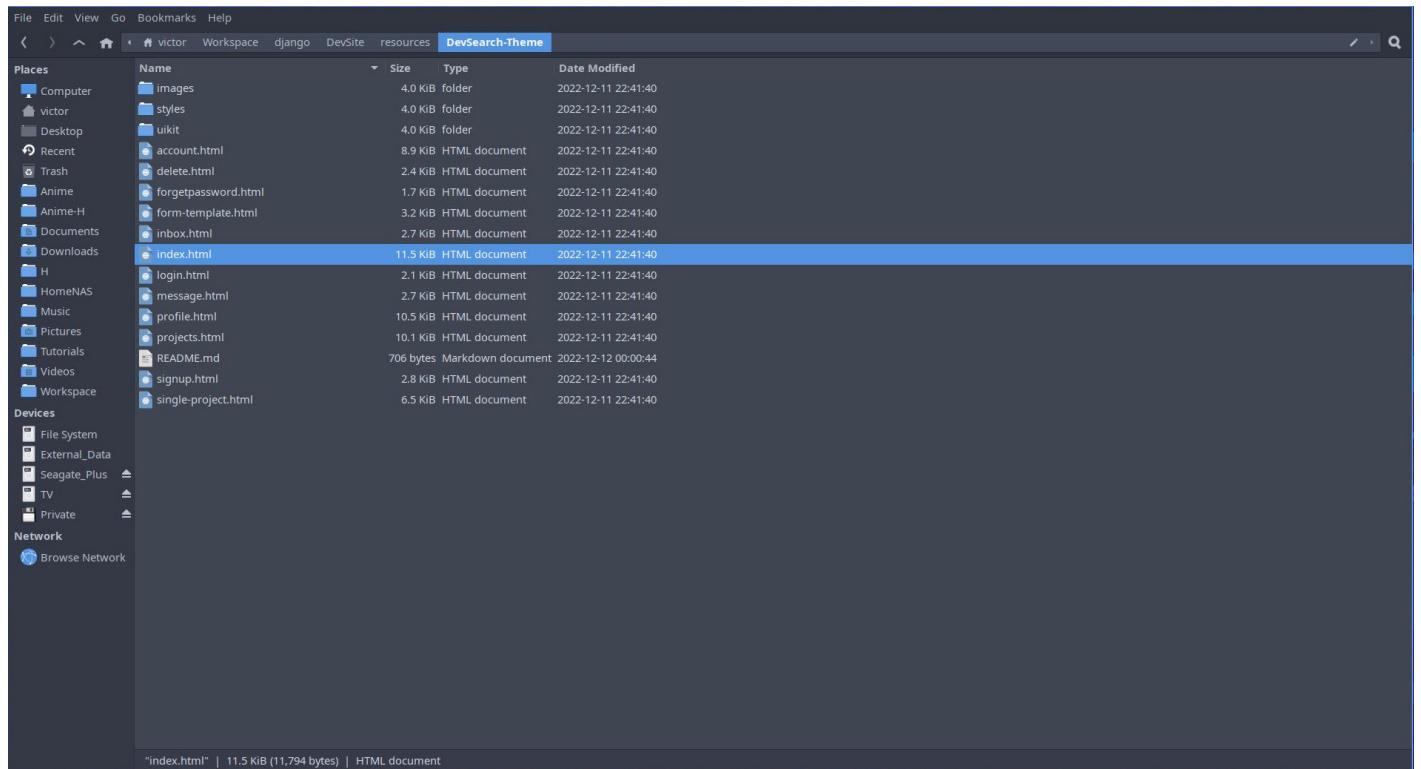


Installing a Theme to Django

In this section we're going to be focusing on installing a theme for our website.

In most cases, we don't design the style on the look of the website itself. What we generally do, is use a pre-designed site (either by buying the design, using an open source and freely available page style such as bootstrap).

In our resource folder, we have a pre-designed site. Each of the templates correspond to a single element of the website:



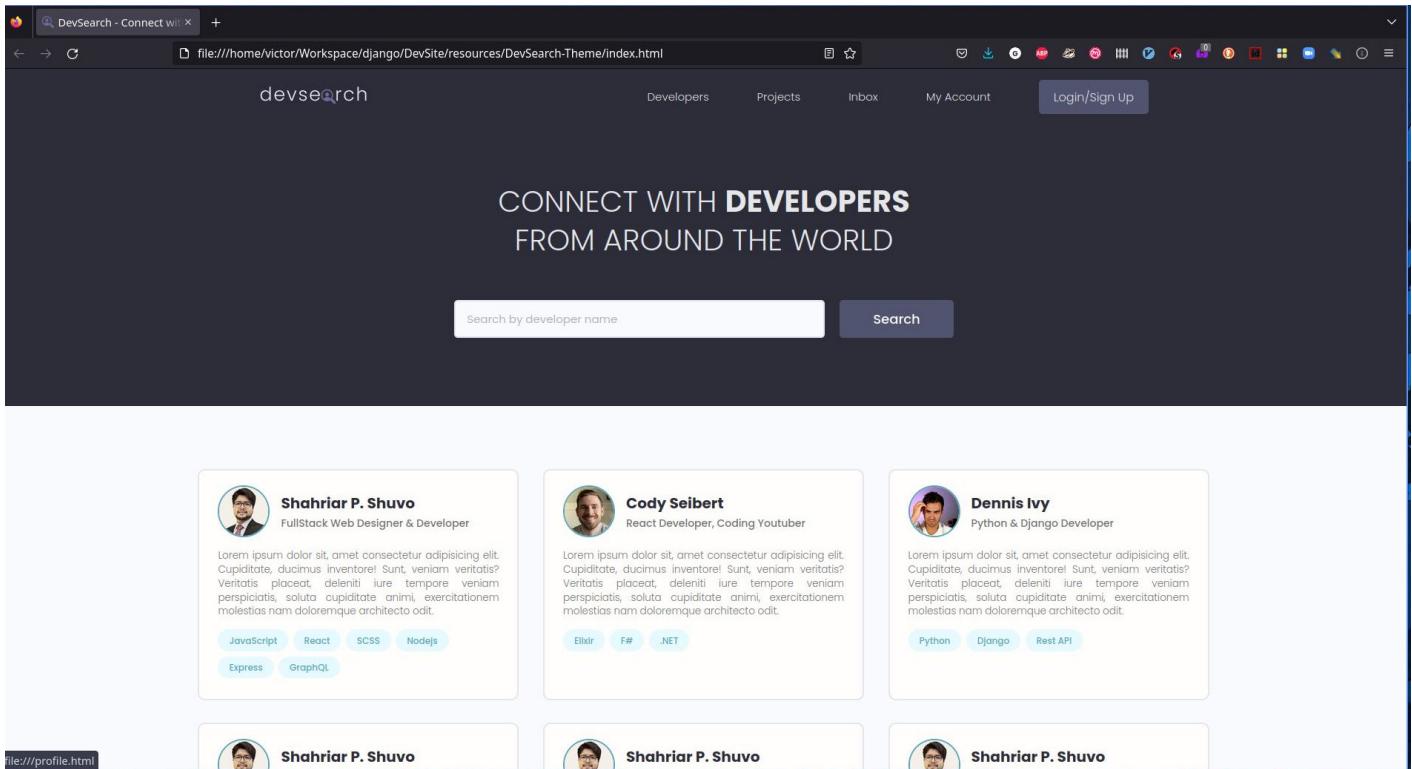
The screenshot shows a file explorer window with a dark theme. The left sidebar has sections for Places (Computer, Desktop, Recent, Trash, Anime, Documents, Downloads, HomeNAS, Music, Pictures, Tutorials, Videos, Workspace), Devices (File System, External_Data, Seagate_Plus, TV, Private), and Network (Browse Network). The main area shows a list of files and folders under a 'resources' folder. The 'DevSearch-Theme' tab is selected at the top. The list includes:

Name	Type	Date Modified
images	4.0 KiB folder	2022-12-11 22:41:40
styles	4.0 KiB folder	2022-12-11 22:41:40
uikit	4.0 KiB folder	2022-12-11 22:41:40
account.html	8.9 KiB HTML document	2022-12-11 22:41:40
delete.html	2.4 KiB HTML document	2022-12-11 22:41:40
forgetpassword.html	1.7 KiB HTML document	2022-12-11 22:41:40
form-template.html	3.2 KiB HTML document	2022-12-11 22:41:40
inbox.html	2.7 KiB HTML document	2022-12-11 22:41:40
index.html	11.5 KiB HTML document	2022-12-11 22:41:40
login.html	2.1 KiB HTML document	2022-12-11 22:41:40
message.html	2.7 KiB HTML document	2022-12-11 22:41:40
profile.html	10.5 KiB HTML document	2022-12-11 22:41:40
projects.html	10.1 KiB HTML document	2022-12-11 22:41:40
README.md	706 bytes Markdown document	2022-12-12 00:00:44
signup.html	2.8 KiB HTML document	2022-12-11 22:41:40
single-project.html	6.5 KiB HTML document	2022-12-11 22:41:40

At the bottom, it says "index.html" | 11.5 KiB (11,794 bytes) | HTML document.

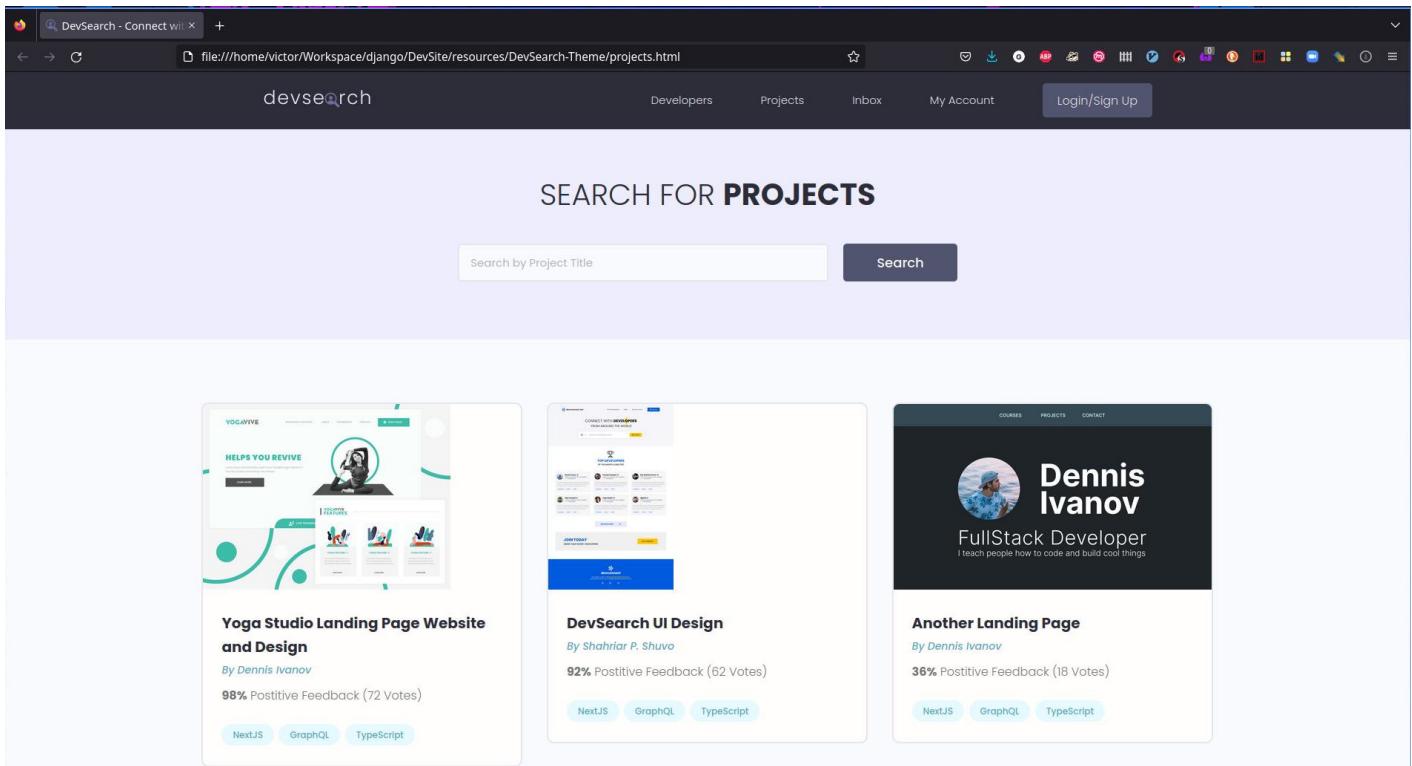
In particular during this initial phase, we'll be adapting the `index.html` file to our site.

If you open up the `index.html` you'll see a *static* webpage:



This is how the website should look like when everything is finish and done.

Since our main page is, for the moment, the **projects** page, we'll begin by modifying the **projects.html** template, that should look like:



and continue our progression as we set up all the remaining elements in our website.

Some important files to consider:

1. The styling for the website is in ***/resources/DevSearch-Theme/styling/app.css*** file
2. The static images that the website uses, in ***/resources/DevSearch-Theme/images***
3. The UIKit package contained in ***/resources/DevSearch-Theme/uikit*** folder

The UIKit contains all the UI elements in the webpages: buttons, burger menus, user avatar, editable forms, tags, grid layouts, etc.

If you open ***/resources/DevSearch-Theme/uikit/index.html*** you'll be able to see all the UI elements available for the theme:

The screenshot shows a browser window titled "Mumble UI" displaying a page from "DevSearch-Theme/uikit/index.html". The page is titled "Font Sizes" and contains a list of heading sizes from H1 to H6, followed by examples of paragraph text, span tags, and strong tags. A code block at the bottom shows the corresponding HTML and CSS for these elements.

Font Sizes

Preset settings for default font sizes. Sizes are set in pixels at the moment but will be modified to use rem. Default font family is: "Poppins" and for the monospace font it's "Fira Code".

Heading H1 (48px)

Heading H2 (36px)

Heading H3 (32px)

Heading H4 (28px)

Heading H5 (24px)

Heading H6 (18px)

Paragraph text (16px)

Span Tag (16px)

Strong tag (16px)

```
<h1>Heading H1 (48px)</h1>
<h2>Heading H2 (36px)</h2>
<h3>Heading H3 (32px)</h3>
<h4>Heading H4 (28px)</h4>
<h5>Heading H5 (24px)</h5>
<h6>Heading H6 (18px)</h6>
<p>Paragraph text (16px)</p>
<span>Span Tag (16px)</span>
<strong>Strong tag (16px)</strong>
```

The screenshot shows a browser window titled "Mumble UI" displaying a page from "DevSearch-Theme/uikit/index.html". The page is titled "Buttons" and shows examples of different button styles (Main, Sub, Default) and sizes (Small, Large). A code block at the bottom shows the corresponding HTML and CSS for these buttons.

Buttons

Choose between two styles, three variants and three sizes buttons by using the "btn" class with additional settings. "btn" should be using with all buttons followed by the button style (Filled or outlined). Setting a size is optional.

Button Main Button Sub Button Default

Button Main Outline Button Sub Outline

Button Small Button Large

```
<button class="btn btn--main">Button Main</button>
<button class="btn btn--sub">Button Sub</button>
<button class="btn">Button Default</button>

<button class="btn btn--main--outline">Button Main Outline</button>
<button class="btn btn--sub--outline">Button Sub Outline</button>

<button class="btn btn--main btn--sm">Button Small</button>
<button class="btn btn--sub btn--lg">Button Large</button>
```

Tag

To use the tag styling use the "<small>" tag inside of a div and give it the class of "tag."

```
<span class="tag">
  <small>This is a tag</small>
</span>

<span class="tag tag--outline">
  <small>This is a tag</small>
</span>
```

Card

Choose between 2 card styles. Each card showed contain the class of "card". By default the "card" class will give you a light themed card, to choose style to add a second class "card-dark"

Card Title

Some quick example text to build on the card title and make up the bulk of the card's content.

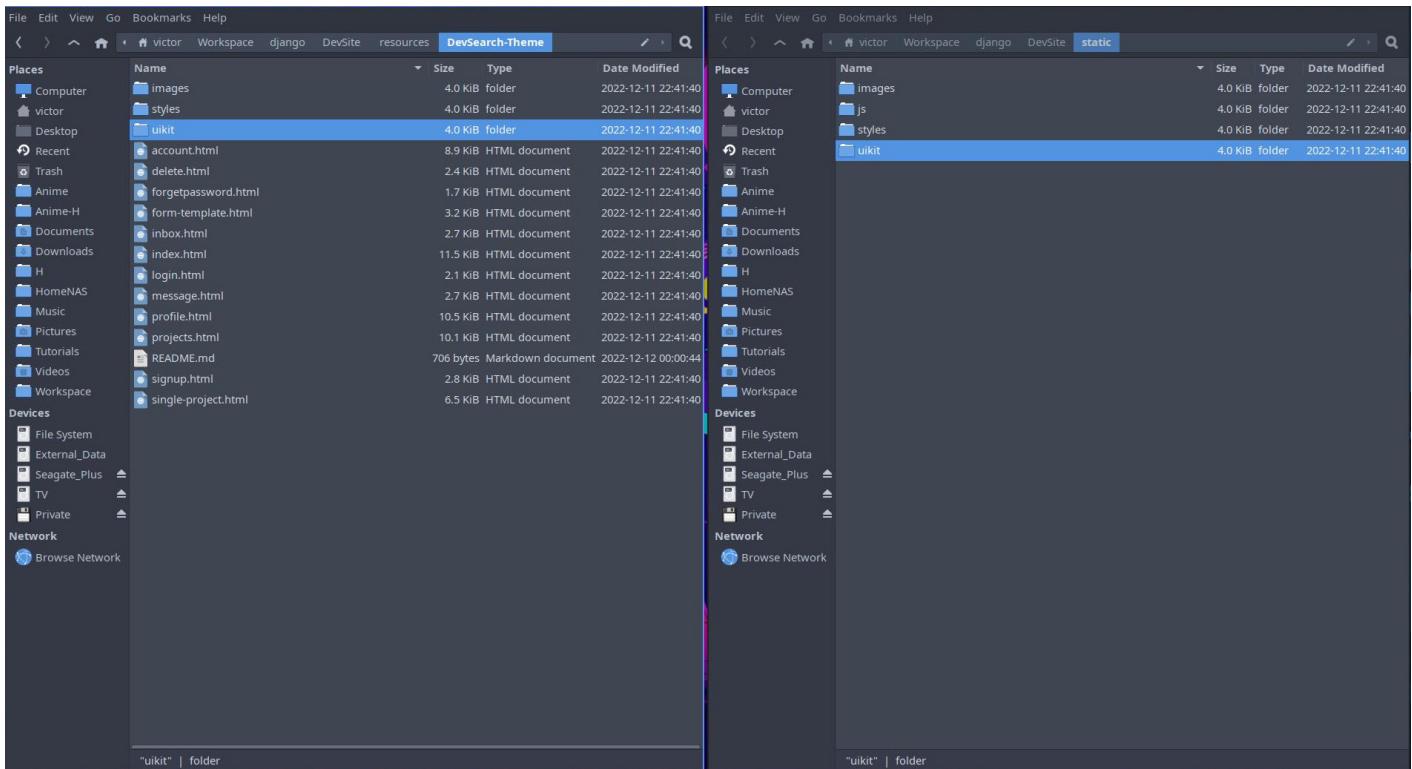
Card Dark Title

Some quick example text to build on the card title and make up the bulk of the card's content.

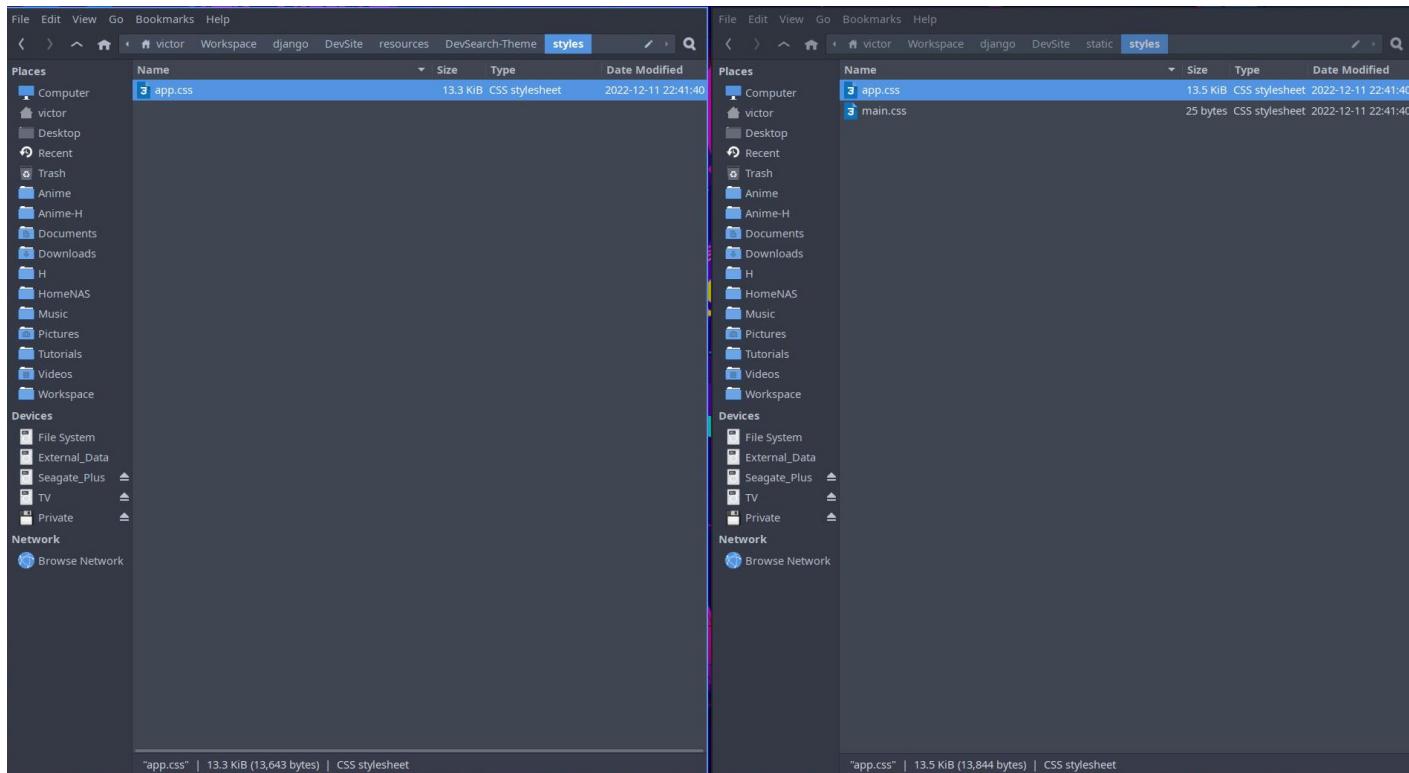
```
<div class="card" style="width: 320px">
  <div class="card__body">
```

Copying the Resource Elements to Our Project

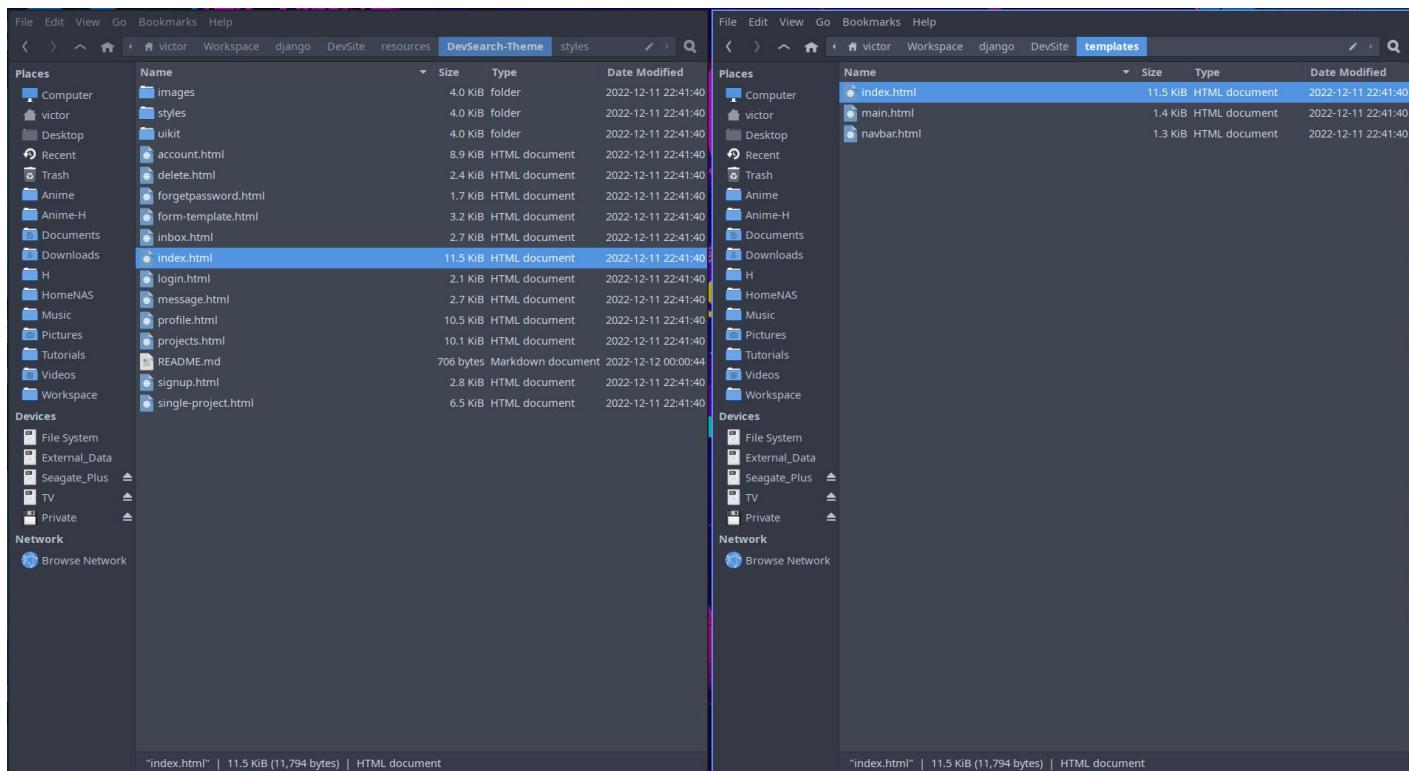
1. Copy the uikit folder to our static folder:



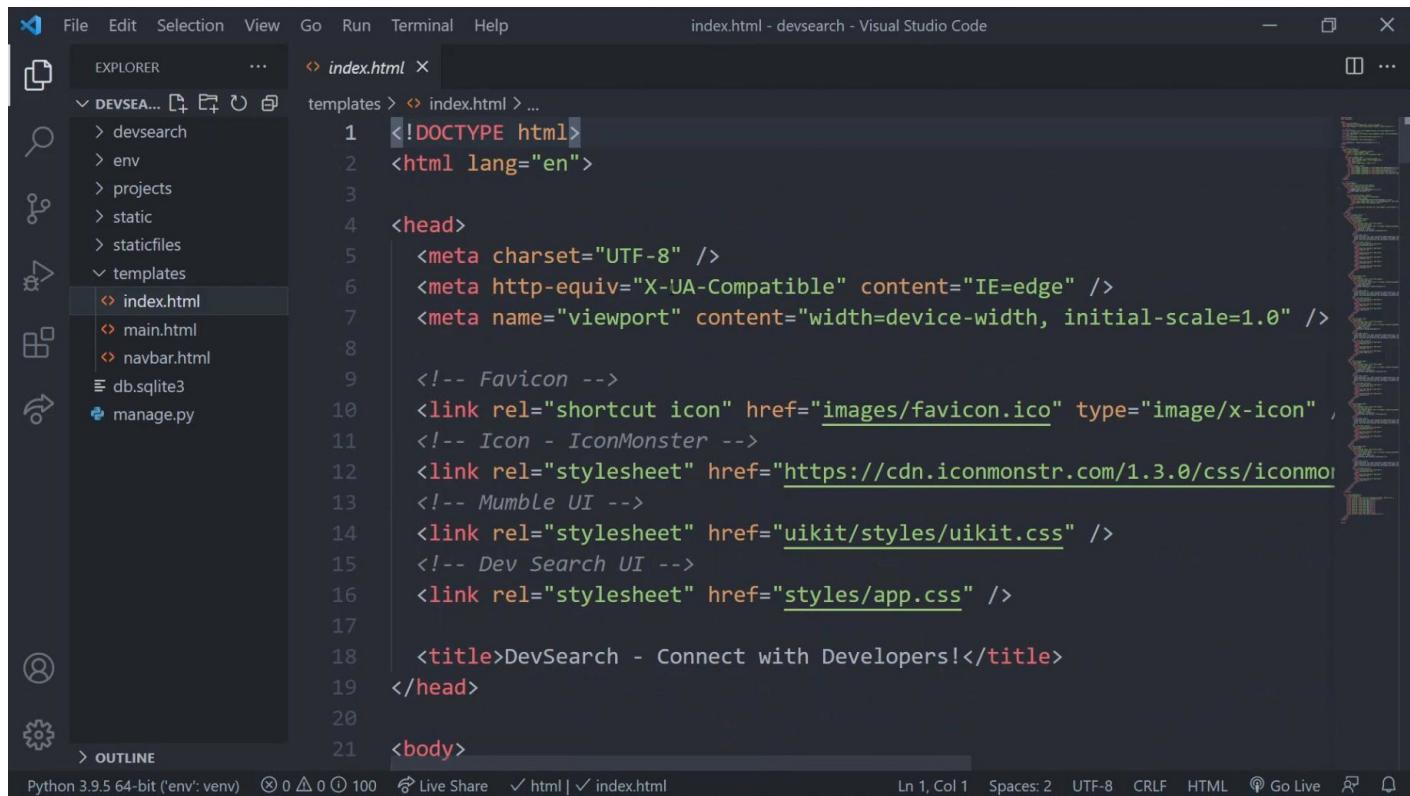
2. Copy the `/resources/DevSearch-Theme/styles/app.css` to `/static/styles/app.css`



3. Copy the `/resources/DevSearch-Theme/index.html` to `/templates/index.html`



So, when you open your project in visual studio code you'll see



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <!-- Favicon -->
    <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon" />
    <!-- Icon - IconMonster -->
    <link rel="stylesheet" href="https://cdn.iconmonstr.com/1.3.0/css/iconmonstr.css" />
    <!-- Mumble UI -->
    <link rel="stylesheet" href="uikit/styles/uikit.css" />
    <!-- Dev Search UI -->
    <link rel="stylesheet" href="styles/app.css" />
<title>DevSearch - Connect with Developers!</title>
</head>
<body>
```

Follow These Next Instructions with Care (They May Be A Little Confusing)

We are going to modify our **main.html** template using elements from **index.html**. We'll need only few parts. This is what may be difficult to follow as it requires a little bit of attention to detail.

First, apply the styling from **index.html** to **main.html**. Copy the content inside the `<head> ... </head>` tag in **index.html** and replace the content between `<head> ... </head>` tag in **main.html** with the copied elements.

Copy this content from ***index.html***

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <!-- Favicon -->
    <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon" />
    <!-- Icon - IconMonster -->
    <link rel="stylesheet" href="https://cdn.iconmonstr.com/1.3.0/css/iconmonstr.css" />
    <!-- Mumble UI -->
    <link rel="stylesheet" href="uikit/styles/uikit.css" />
    <!-- Dev Search UI -->
    <link rel="stylesheet" href="styles/app.css" />
  </head>
  <body>
    <title>DevSearch - Connect with Developers!</title>
  </body>

```

and replace the following content in ***main.html***

```

<!DOCTYPE html>
{% load static %}
<html>
  <head>
    <meta charset='utf-8'>
    <meta http-equiv='X-UA-Compatible' content='IE=edge'>
    <title>DevSearch</title>
    <meta name='viewport' content='width=device-width, initial-scale=1'>
    <link rel='stylesheet' type='text/css' media='screen' href='{{ static' %}
  </head>
  <body>
    {% include 'navbar.html' %}
    {% block content %}
    {% endblock content %}
    <p>FOOTER</p>
  </body>

```

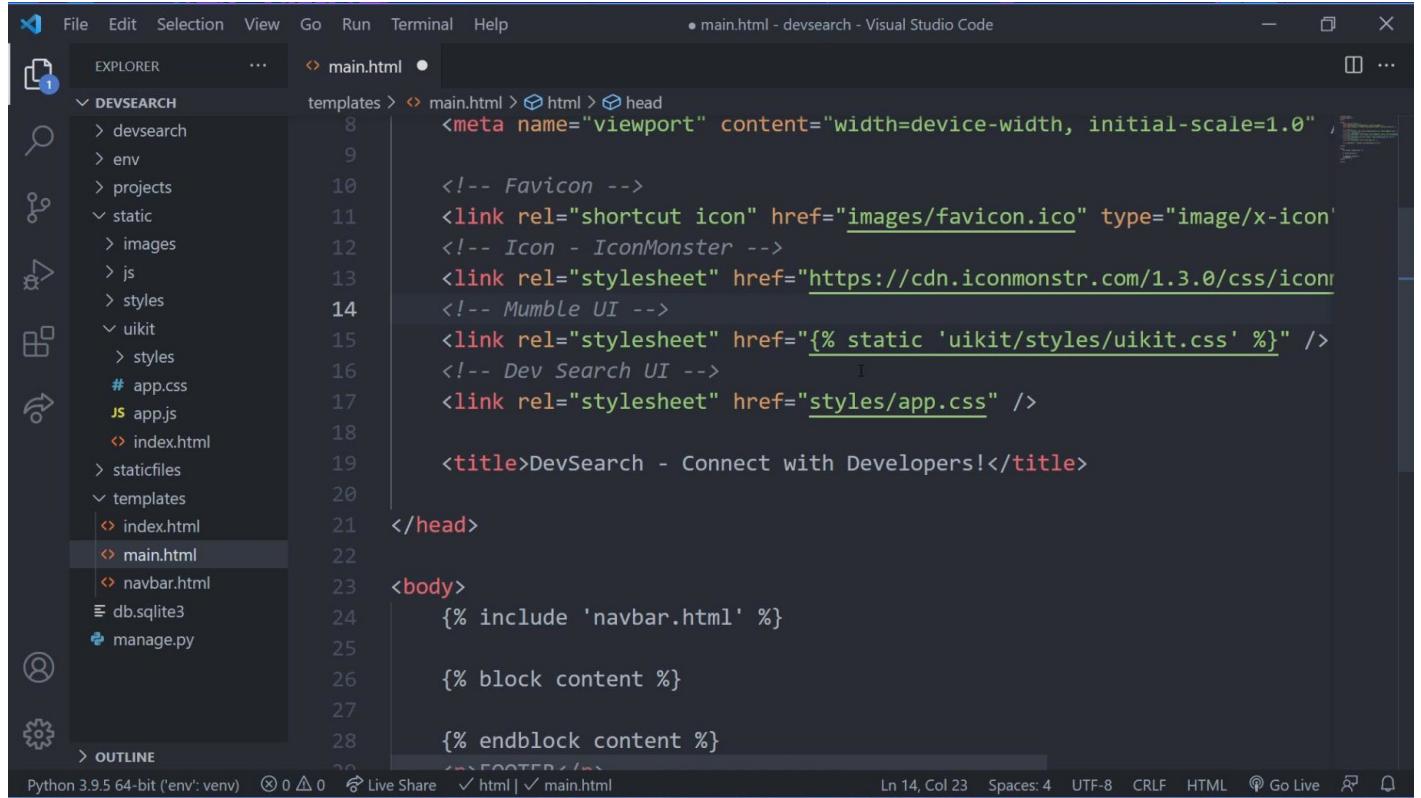
Second, we need to connect the styling defined in the UIKit to our templates. We're going to change the hard-coded references in the stylesheets for the uikit and app.css to dynamic redirections.

Make sure that all the files we modify have

```
<!DOCTYPE html>
{% load static %}
```

at the top of the file. Otherwise, we'll have errors at page loading time.

Change the uikit reference:



```
File Edit Selection View Go Run Terminal Help • main.html - devsearch - Visual Studio Code
EXPLORER main.html
DEVSERACH
templates > main.html > html > head
8   <meta name="viewport" content="width=device-width, initial-scale=1.0" ,
9
10  <!-- Favicon -->
11  <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon" ,
12  <!-- Icon - IconMonster -->
13  <link rel="stylesheet" href="https://cdn.iconmonstr.com/1.3.0/css/iconr
14  <!-- Mumble UI -->
15  <link rel="stylesheet" href="{% static 'uikit/styles/uikit.css' %}" />
16  <!-- Dev Search UI -->
17  <link rel="stylesheet" href="styles/app.css" />
18
19  <title>DevSearch - Connect with Developers!</title>
20
21  </head>
22
23  <body>
24    {% include 'navbar.html' %}
25
26    {% block content %}
27
28    {% endblock content %}
```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 Live Share ✓ html | ✓ main.html Ln 14, Col 23 Spaces: 4 UTF-8 CRLF HTML ⌂ Go Live ⌂

Reload your projects page and you should see some small styling changes to the page:

Project	Positive Votes	Votes	
Ecommerce Website	30%	12	June 15, 2021, 1:24 p.m. Edit Delete View
Yoga Vive	98%	51	June 16, 2021, 5:14 p.m. Edit Delete View
Code Sniper	75%	80	June 16, 2021, 5:14 p.m. Edit Delete View
Portfolio Website	65%	6	June 16, 2021, 5:15 p.m. Edit Delete View
Mumble Social Network	89%	74	June 16, 2021, 5:15 p.m. Edit Delete View

FOOTER

This is applying all the styles included in the uikit.css that we copied to the project's static folder.

Apply the same changes to the app.css reference:

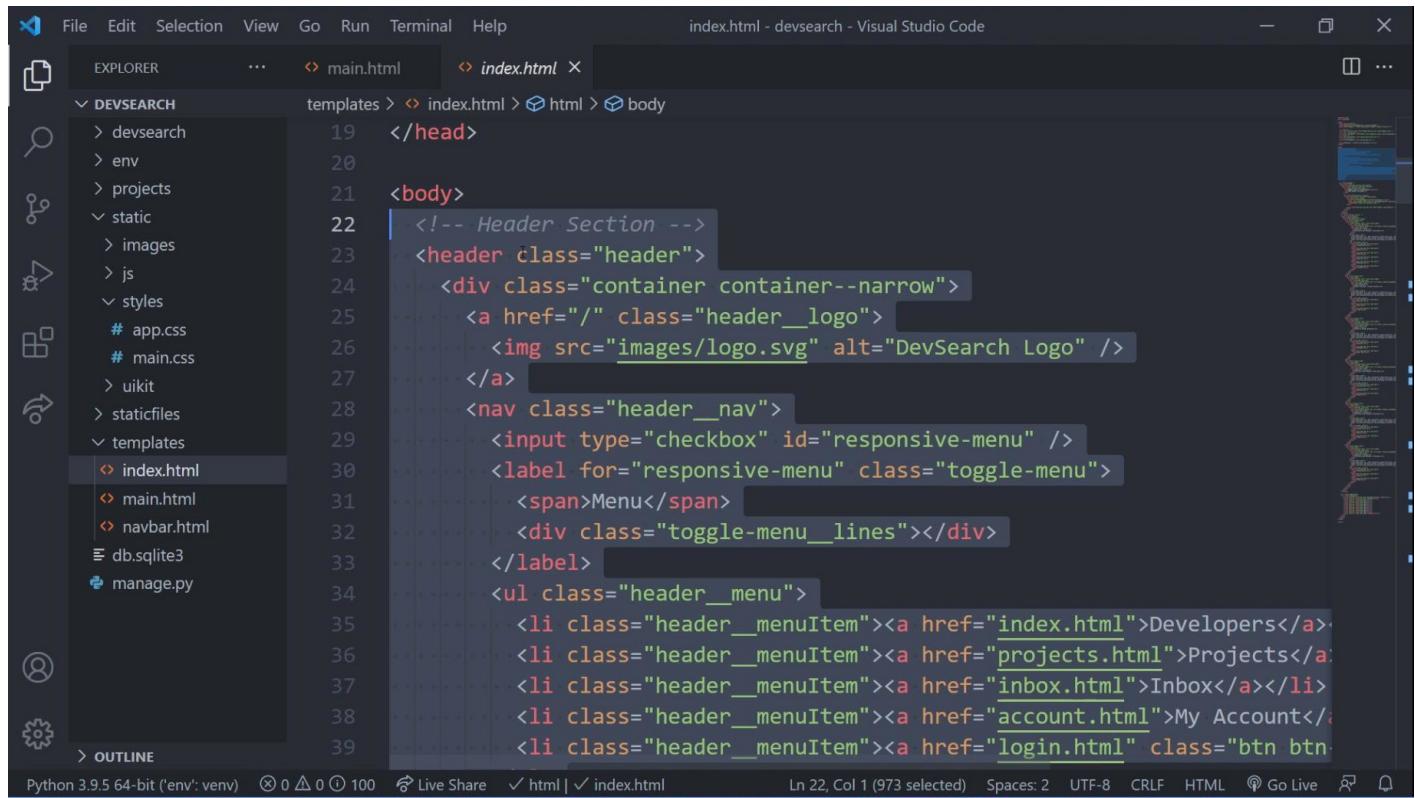
```

File Edit Selection View Go Run Terminal Help
main.html - devsearch - Visual Studio Code
EXPLORER ... main.html
DEVSERACH templates > main.html > html > head
8   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
9
10  <!-- Favicon -->
11  <link rel="shortcut icon" href="images/favicon.ico" type="image/x-icon" />
12  <!-- Icon - IconMonster -->
13  <link rel="stylesheet" href="https://cdn.iconmonstr.com/1.3.0/css/iconmonstr.css" />
14  <!-- Mumble UI -->
15  <link rel="stylesheet" href="{% static 'uikit/styles/uikit.css' %}" />
16  <!-- Dev Search UI -->
17  <link rel="stylesheet" href="{% static 'styles/app.css' %}" />
18
19  <title>DevSearch - Connect with Developers!</title>
20
21  </head>
22
23  <body>
24    {% include 'navbar.html' %}
25
26    {% block content %}
27
28    {% endblock content %}

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 🔍 Live Share ✓ html | ✓ main.html Ln 16, Col 27 Spaces: 4 UTF-8 CRLF HTML ⏪ Go Live ⏪ ⏪

Third, let's change the NavBar style. From the **index.html** we'll copy the header section `<header>...</header>` that contains the navbar part:

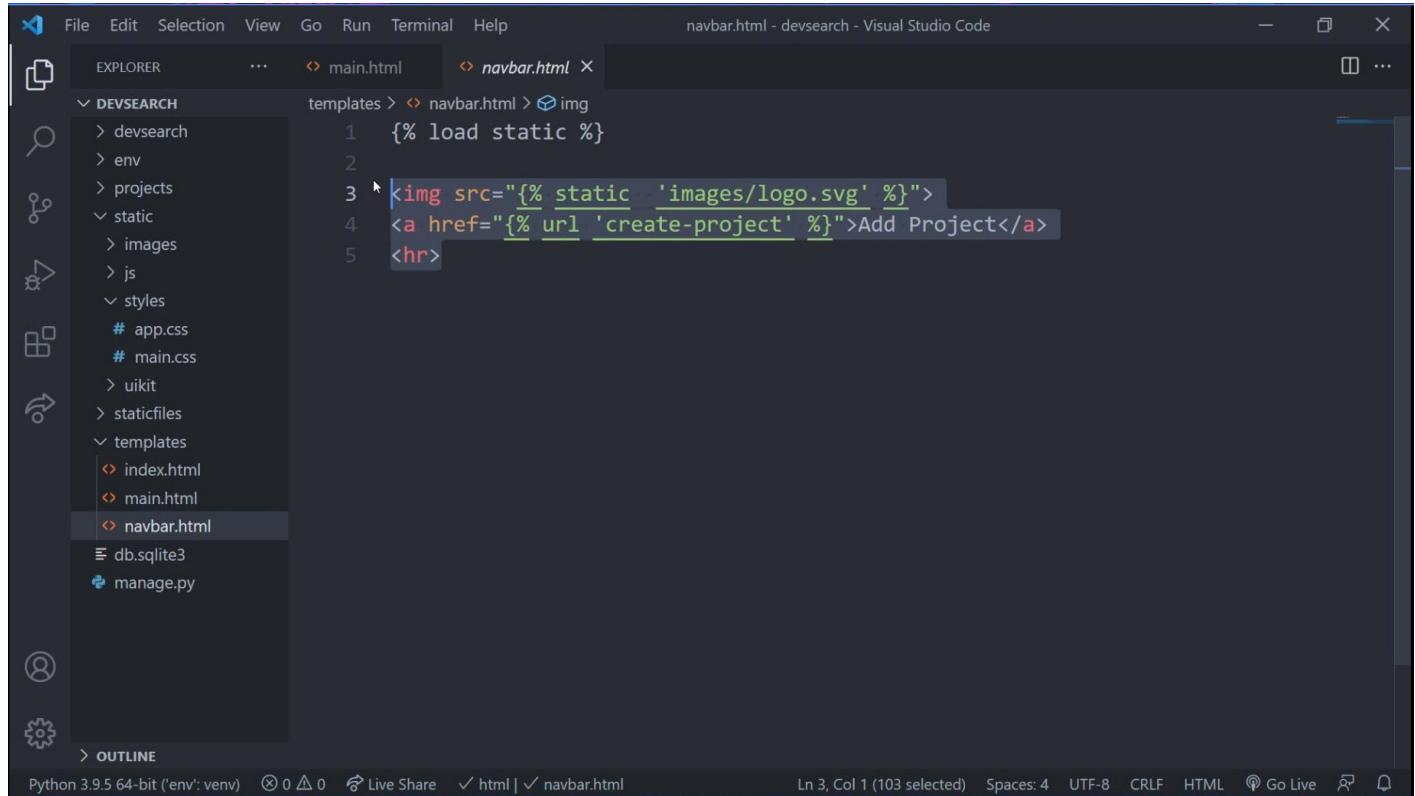


```

<!-- Header Section -->
<header class="header">
  <div class="container container--narrow">
    <a href="/" class="header__logo">
      
    </a>
    <nav class="header__nav">
      <input type="checkbox" id="responsive-menu" />
      <label for="responsive-menu" class="toggle-menu">
        <span>Menu</span>
        <div class="toggle-menu__lines"></div>
      </label>
      <ul class="header__menu">
        <li class="header__menuItem"><a href="index.html">Developers</a></li>
        <li class="header__menuItem"><a href="projects.html">Projects</a></li>
        <li class="header__menuItem"><a href="inbox.html">Inbox</a></li>
        <li class="header__menuItem"><a href="account.html">My Account</a></li>
        <li class="header__menuItem"><a href="login.html" class="btn btn--primary">Login</a></li>
      </ul>
    </nav>
  </div>
</header>

```

and place the section into the **navbar.html** template and replace the code:



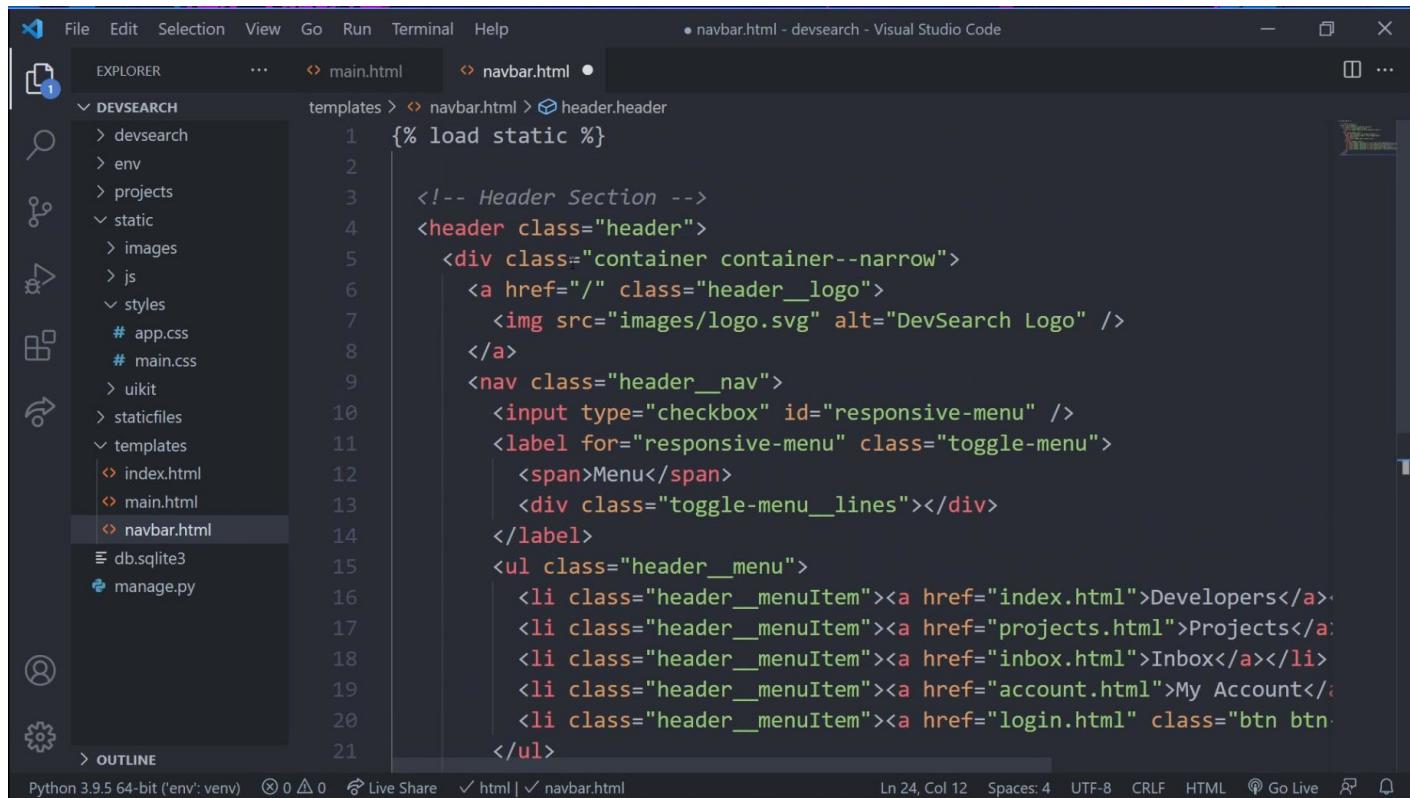
```

<% load static %>

<a href="{% url 'create-project' %}">Add Project</a>
<hr>

```

with the code:



```

File Edit Selection View Go Run Terminal Help
• navbar.html - devsearch - Visual Studio Code
EXPLORER ... main.html navbar.html
DEVSEARCH templates > navbar.html > header.header
1  {% load static %}

2
3  <!-- Header Section -->
4  <header class="header">
5    <div class="container container--narrow">
6      <a href="/" class="header__logo">
7        
8      </a>
9      <nav class="header__nav">
10        <input type="checkbox" id="responsive-menu" />
11        <label for="responsive-menu" class="toggle-menu">
12          <span>Menu</span>
13          <div class="toggle-menu__lines"></div>
14        </label>
15        <ul class="header__menu">
16          <li class="header__menuItem"><a href="index.html">Developers</a></li>
17          <li class="header__menuItem"><a href="projects.html">Projects</a></li>
18          <li class="header__menuItem"><a href="inbox.html">Inbox</a></li>
19          <li class="header__menuItem"><a href="account.html">My Account</a></li>
20          <li class="header__menuItem"><a href="login.html" class="btn btn--primary">Log In</a></li>
21        </ul>

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 🔍 Live Share ✓ html | ✓ navbar.html Ln 24, Col 12 Spaces: 4 UTF-8 CRLF HTML ⏪ Go Live ⏪ 🔔

Now, we have to do the dynamic connections to our template. First, change the logo part. Change line 6 from:

```
<a href="/" class="header__logo">
```

to:

```
<a href="{% url 'projects' %}">
```

Change line 7:

```

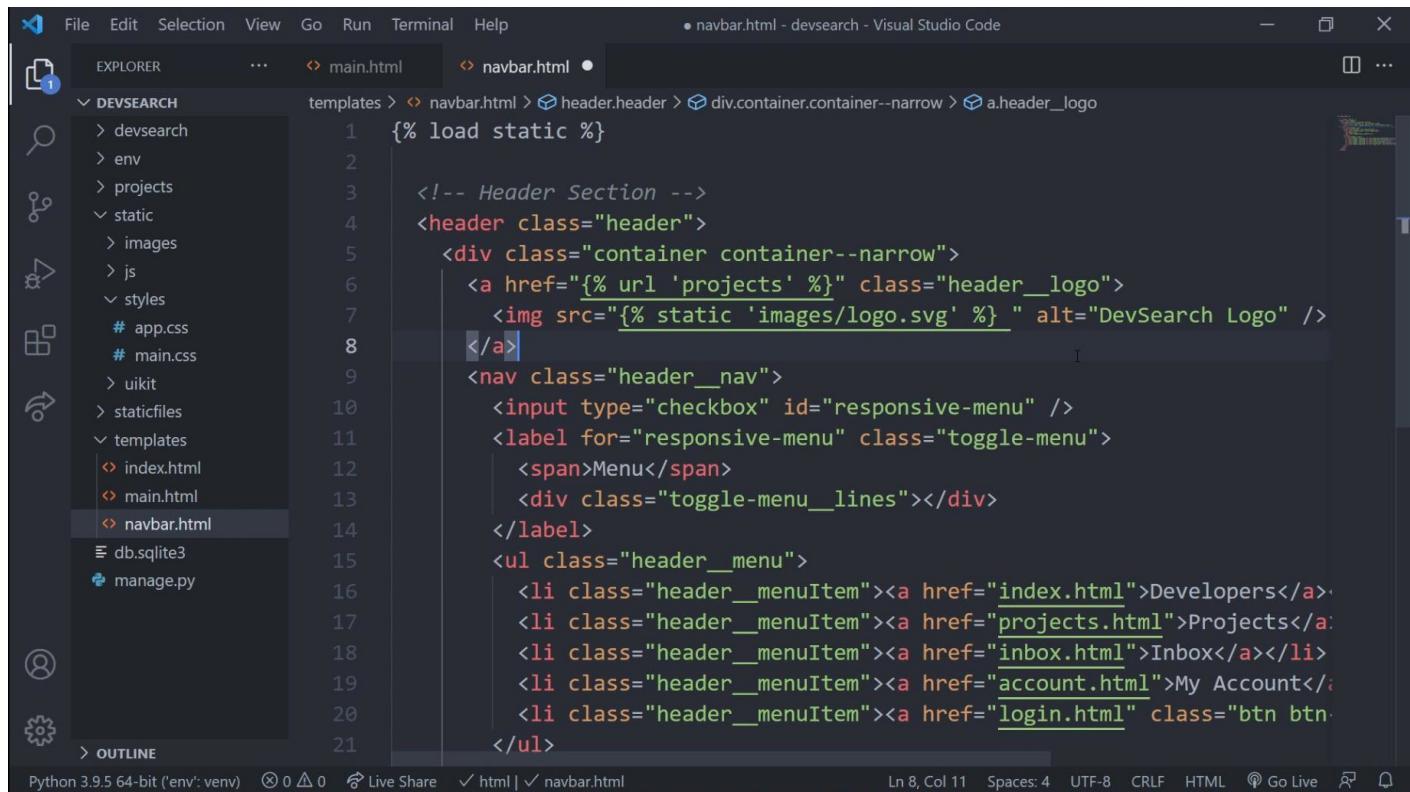
```

to

```

```

in order to force a redirection to the projects page and the static folder as the image source when the logo is clicked by the user.



```
File Edit Selection View Go Run Terminal Help
• navbar.html - devsearch - Visual Studio Code
EXPLORER ... main.html navbar.html
DEVSERACH templates > navbar.html > header.header > div.container.container--narrow > a.header_logo
> devsearch
> env
> projects
static
> images
> js
> styles
# app.css
# main.css
> uikit
> staticfiles
templates
> index.html
> main.html
navbar.html
db.sqlite3
manage.py
<% load static %}

<!-- Header Section --&gt;
&lt;header class="header"&gt;
  &lt;div class="container container--narrow"&gt;
    &lt;a href="{% url 'projects' %}" class="header_logo"&gt;
      &lt;img src="{% static 'images/logo.svg' %}" alt="DevSearch Logo" /&gt;
    &lt;/a&gt;
    &lt;nav class="header_nav"&gt;
      &lt;input type="checkbox" id="responsive-menu" /&gt;
      &lt;label for="responsive-menu" class="toggle-menu"&gt;
        &lt;span&gt;Menu&lt;/span&gt;
        &lt;div class="toggle-menu_lines"&gt;&lt;/div&gt;
      &lt;/label&gt;
      &lt;ul class="header_menu"&gt;
        &lt;li class="header_menuItem"&gt;&lt;a href="index.html"&gt;Developers&lt;/a&gt;&lt;/li&gt;
        &lt;li class="header_menuItem"&gt;&lt;a href="projects.html"&gt;Projects&lt;/a&gt;&lt;/li&gt;
        &lt;li class="header_menuItem"&gt;&lt;a href="inbox.html"&gt;Inbox&lt;/a&gt;&lt;/li&gt;
        &lt;li class="header_menuItem"&gt;&lt;a href="account.html"&gt;My Account&lt;/a&gt;&lt;/li&gt;
        &lt;li class="header_menuItem"&gt;&lt;a href="login.html" class="btn btn--sub"&gt;Login/Signin&lt;/a&gt;&lt;/li&gt;
      &lt;/ul&gt;
    &lt;/nav&gt;
  &lt;/div&gt;
&lt;/header&gt;</pre>
```

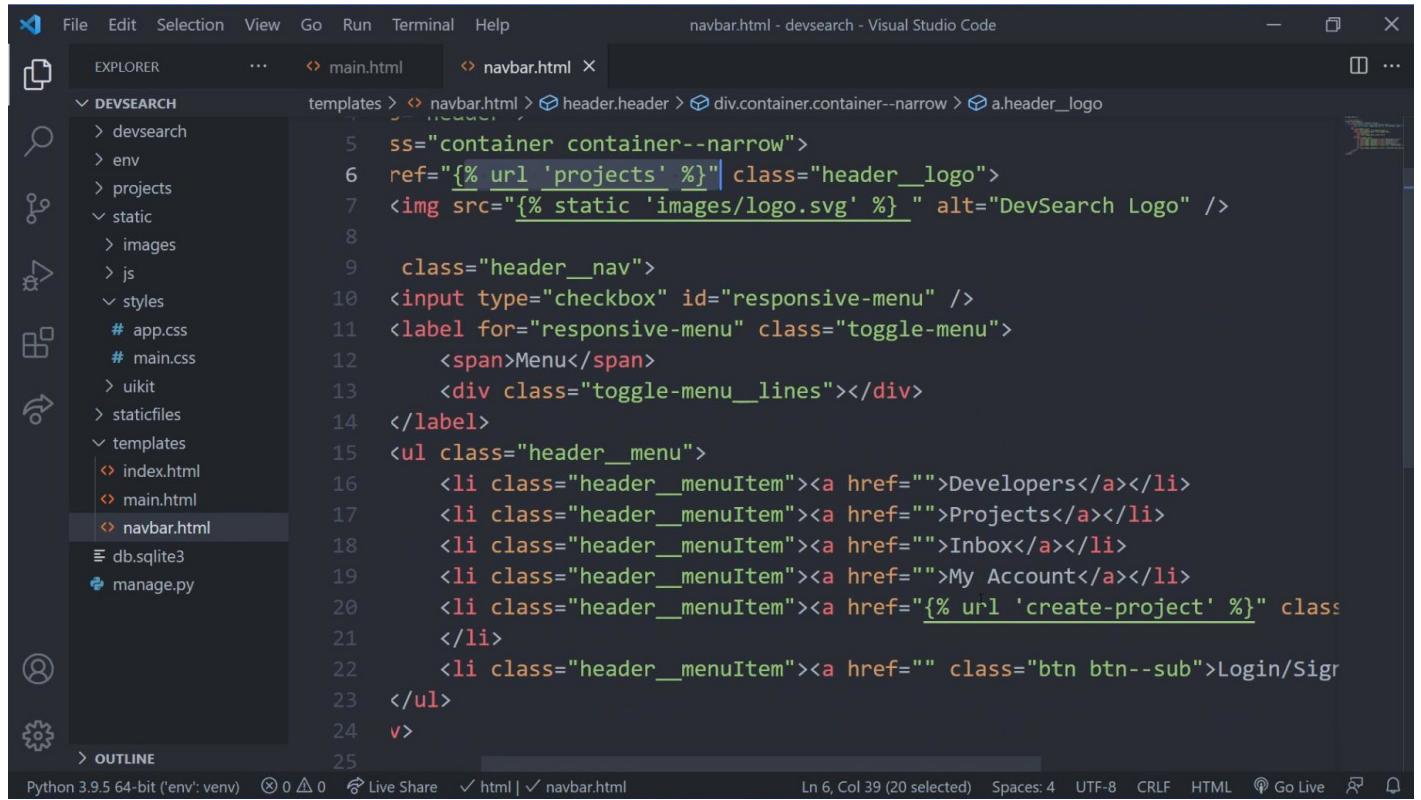
Next, we'll modify the header menu temporarily. Change the list items from lines 16 to 20:

```
<a href="index.html">Developers</a>
<a href="projects.html">Projects</a>
<a href="inbox.html">Inbox</a>
<a href="account.html">My Account</a>
<a href="login.html" class="btn btn--sub">Login/Signin</a>
```

to:

```
<a href="">Developers</a>
<a href="{% url 'projects' %}">Projects</a>
<a href="">Inbox</a>
<a href="{% url 'create-project' %}">Add Project</a>
<a href="" class="btn btn--sub">Login/Signin</a>
```

so the navbar template looks like:



```
File Edit Selection View Go Run Terminal Help
navbar.html - devsearch - Visual Studio Code

EXPLORER ... main.html navbar.html
DEVSEARCH templates > navbar.html > header.header > div.container.container--narrow > a.header_logo
> devsearch
> env
> projects
static
> images
> js
styles
# app.css
# main.css
> uikit
> staticfiles
templates
index.html
main.html
navbar.html
db.sqlite3
manage.py

5 ss="container container--narrow">
6 ref="{% url 'projects' %}" class="header_logo">
7 
8
9 class="header__nav">
10 <input type="checkbox" id="responsive-menu" />
11 <label for="responsive-menu" class="toggle-menu">
12     <span>Menu</span>
13     <div class="toggle-menu__lines"></div>
14 </label>
15 <ul class="header__menu">
16     <li class="header__menuItem"><a href="">Developers</a></li>
17     <li class="header__menuItem"><a href="">Projects</a></li>
18     <li class="header__menuItem"><a href="">Inbox</a></li>
19     <li class="header__menuItem"><a href="">My Account</a></li>
20     <li class="header__menuItem"><a href="{% url 'create-project' %}" class="header__menuItem"><a href="" class="btn btn--sub">Login/Sigr
21     </li>
22     <li class="header__menuItem"><a href="" class="header__menuItem"><a href="" class="btn btn--sub">Login/Sigr
23 </ul>
24 v>
25
```

Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 Live Share ✓ html | ✓ navbar.html Ln 6, Col 39 (20 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🎙️

The reason behind leaving empty strings is that we still don't have the pages for each address. The previous addresses only work with the static page and they need to change to dynamic addresses, but we don't have them for the moment. The only available address is the one for the create project page. All the dynamic addresses in the page will look like the one for create-project.

With the changes to the navbar, the site should start looking nicer:

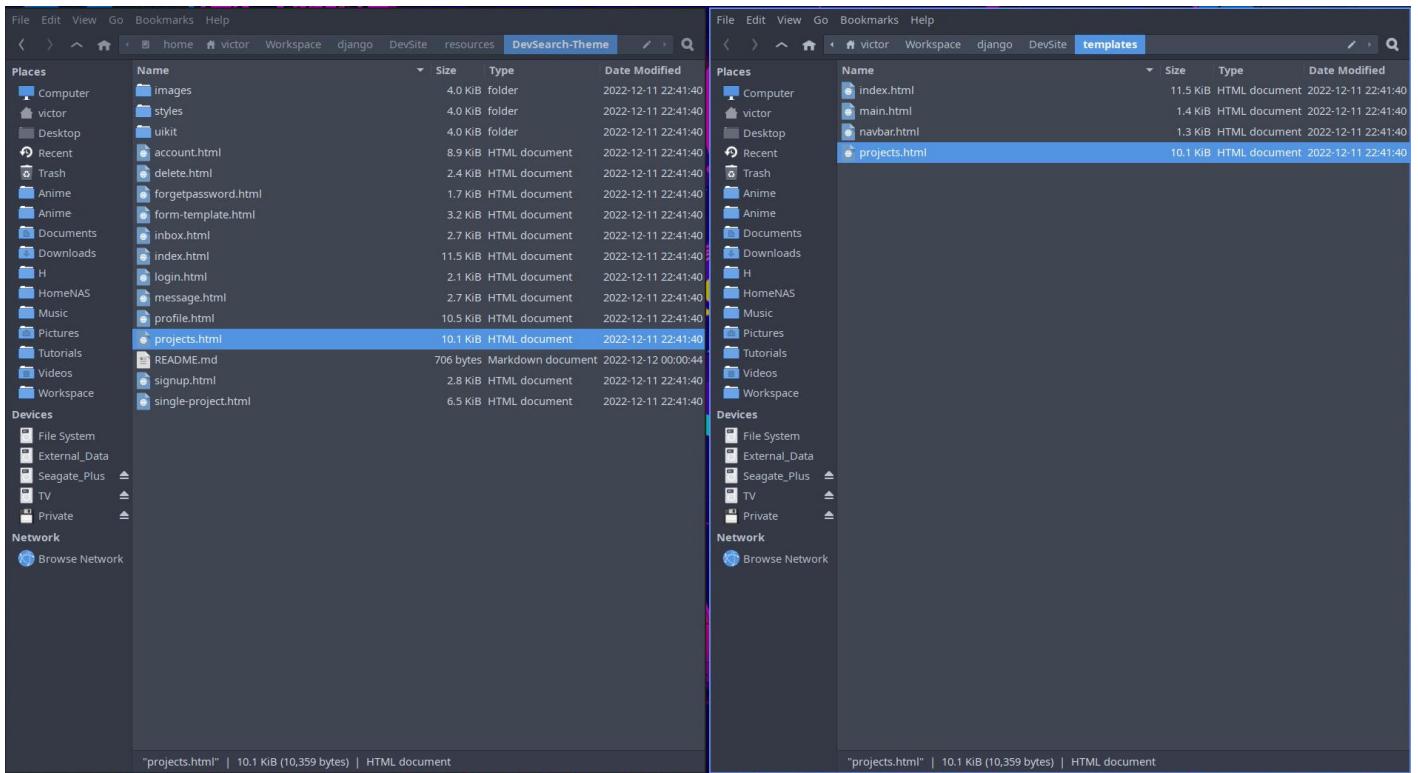
Project	Positive Votes	Votes
Ecommerce Website	30%	12
Yoga Vive	98%	51
Code Sniper	75%	80
Portfolio Website	65%	6
Mumble Social Network	89%	74

FOOTER

Try the site's functionality. You should be able to navigate between the projects and the individual project pages by clicking on the hyperlinks and/or the navigation bar icon.

The following step is to modify the projects page so it looks as the projects.html template in the resource folder.

Four, copy the `/resources/DevSearch-Themes/templates/projects.html` to `/templates/projects.html`



We momentarily placed the `/resources/DevSearch-Themes/.../projects.html` file into the main `/templates/` folder just to separate the `projects.html` that really is in the `/projects/templatest/projects/projects.html` file.

We are going to copy the `<main> ... </main>` section of the recently copied resources file:

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows the project structure under "DEVSEARCH". The "templates/projects.html" file is currently selected.
- Code Editor:** The main area displays the HTML code for "projects.html". The code includes sections for a hero section and a search form.
- Status Bar:** At the bottom, it shows "Python 3.9.5 64-bit (env: venv)" and "Live Share".

```
<html lang="en">
<body>
    <!-- Main Section -->
    <main class="projects">
        <section class="hero-section text-center">
            <div class="container container--narrow">
                <div class="hero-section__box">
                    <h2>Search for <span>Projects</span></h2>
                </div>
                <div class="hero-section__search">
                    <form class="form" action="#" method="get">
                        <div class="form__field">
                            <label for="formInput#search">Search By Projects </label>
                            <input class="input input--text" id="formInput#search" type="text" placeholder="Search by Project Title" />
                        </div>
                    </form>
                </div>
            </div>
        </section>
    </main>
</body>
</html>
```

to the `/projects/.../projects.html` file right beneath the `</table>` tag:

```

13     projects > templates > projects > projects.html
14     <tr>
15         <td>{{project.title}}</td>
16         <td>{{project.vote_ratio}}%</td>
17         <td>{{project.vote_total}}</td>
18         <td>{{project.created}}</td>
19         <td><a href="{% url 'update-project' project.id %}">Edit</a></td>
20         <td><a href="{% url 'delete-project' project.id %}">Delete</a></td>
21         <td><a href="{% url 'project' project.id %}">View</a></td>
22     </tr>
23     {% endfor %}
24 </table>
25
26
27
28
29
30
31
32
33     {% endblock content %}

```

```

218     </div>
219     </section>
220
221     <div class="pagination">
222         <ul class="container">
223             <li><a href="#" class="btn btn--disabled"># Prev</a></li>
224             <li><a href="#" class="btn btn--sub">01</a></li>
225             <li><a href="#" class="btn">02</a></li>
226             <li><a href="#" class="btn">03</a></li>
227             <li><a href="#" class="btn">04</a></li>
228             <li><a href="#" class="btn">05</a></li>
229             <li><a href="#" class="btn">06</a></li>
230             <li><a href="#" class="btn">07</a></li>
231             <li><a href="#" class="btn">08</a></li>
232             <li><a href="#" class="btn">09</a></li>
233             <li><a href="#" class="btn">10</a></li>
234             <li><a href="#" class="btn">Next #</a></li>
235         </ul>
236     </div>
237     </main>
238

```

If we refresh the page, we should see a resulting page:

The screenshot shows a web application interface for managing projects. At the top, there's a navigation bar with links for 'Developers', 'Projects', 'Inbox', 'Add Project', and 'Login/Sign Up'. Below the navigation is a table listing five projects:

Project	Positive Votes	Votes	Last Updated	Action
Ecommerce Website	30%	12	June 15, 2021, 1:24 p.m.	Edit Delete View
Yoga Vive	98%	51	June 16, 2021, 5:14 p.m.	Edit Delete View
Code Sniper	75%	80	June 16, 2021, 5:14 p.m.	Edit Delete View
Portfolio Website	65%	6	June 16, 2021, 5:15 p.m.	Edit Delete View
Mumble Social Network	89%	74	June 16, 2021, 5:15 p.m.	Edit Delete View

Below the table is a section titled 'SEARCH FOR PROJECTS' with a search input field and a 'Search' button. Underneath this is a grid of three project cards:

- Yoga Studio Landing Page Website and Design** - By Dennis Ivanov, 98% Positive Feedback (72 Votes). Technologies: NextJS, GraphQL, TypeScript.
- DevSearch UI Design** - By Shahriar P. Shuvo, 92% Positive Feedback (62 Votes). Technologies: NextJS, GraphQL, TypeScript.
- Another Landing Page** - By Dennis Ivanov, 36% Positive Feedback (18 Votes). Technologies: NextJS, GraphQL, TypeScript.

At the bottom of the page is a pagination bar with numbered buttons from 01 to 10, and 'Prev' and 'Next >' buttons.

FOOTER

We'll get rid of the pagination at the bottom of the page and we'll start migrating the data from the first table we implemented into each of the divisions inside the newly styled page.

Delete the section indicated by the pagination divition `<div class="pagination"> ... </div>`:

File Edit Selection View Go Run Terminal Help projects.html - devsearch - Visual Studio Code

EXPLORER ...

DEVSERACH

projects.html

delete_template.htm... project_form.html projects.html single-project.html _init_.py admin.py apps.py forms.py models.py tests.py urls.py views.py static staticfiles

templates

index.html main.html navbar.html projects.html db.sqlite3 manage.py

OUTLINE

projects > templates > projects > projects.html > main.projects

```
</div>
</div>
</section>
<div class="pagination">
  <ul class="container">
    <li><a href="#" class="btn btn--disabled" style="color: #ccc;"><span> Prev </span></a></li>
    <li><a href="#" class="btn btn--sub" style="color: #ccc;"><span> 01 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 02 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 03 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 04 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 05 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 06 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 07 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 08 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 09 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> 10 </span></a></li>
    <li><a href="#" class="btn" style="color: #ccc;"><span> Next </span></a></li>
  </ul>
</div>
</main>
```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 12 🔍 Live Share ✓ html | ✓ projects.html Ln 221, Col 1 (768 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🔍 🔍

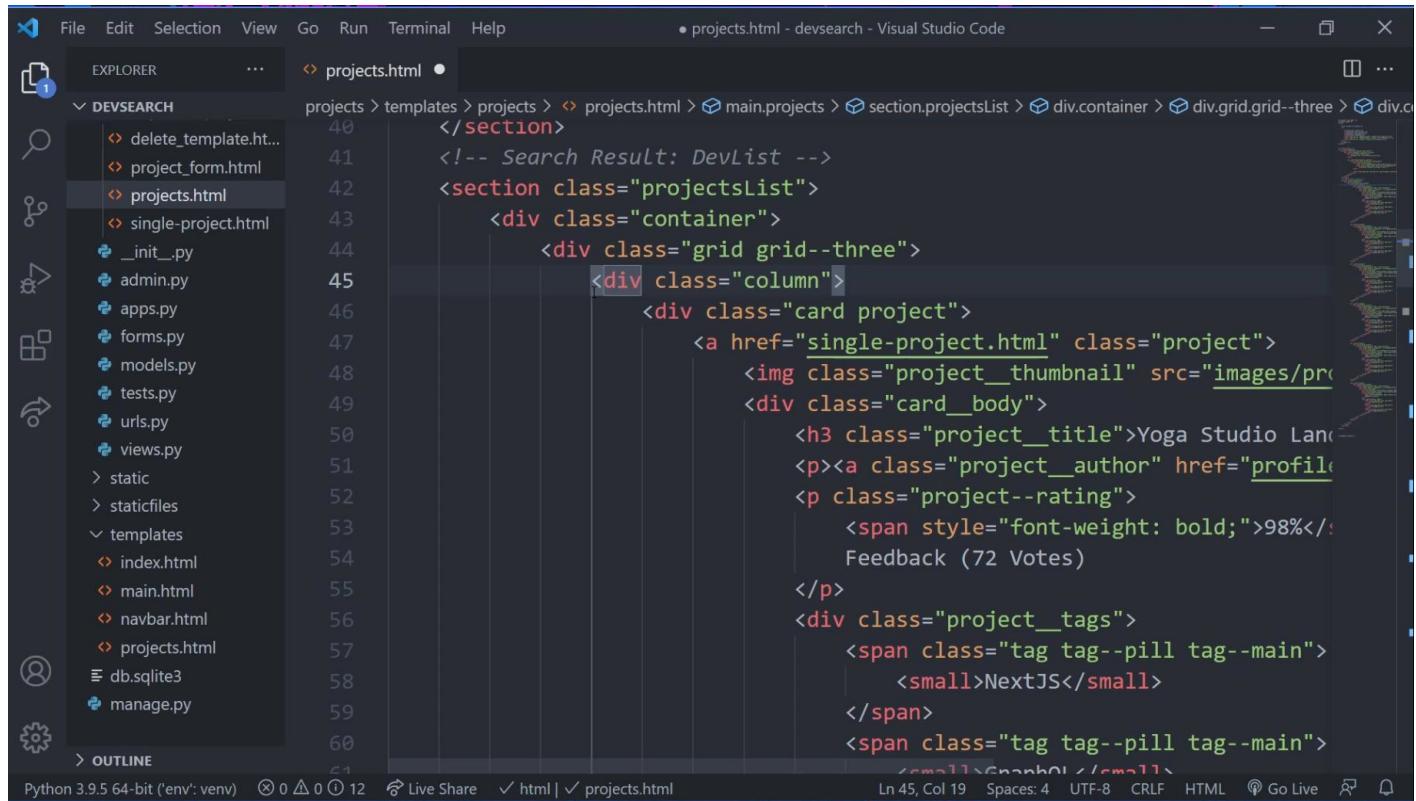
Next, modify the beginning of the `projects.html` template so it looks similar to:

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** projects.html - devsearch - Visual Studio Code.
- Left Sidebar (Explorer):** Shows the project structure:
 - DEVSEARCH folder contains:
 - delete_template.html
 - project_form.html
 - projects.html** (selected)
 - single-project.html
 - __init__.py
 - admin.py
 - apps.py
 - forms.py
 - models.py
 - tests.py
 - urls.py
 - views.py
 - > static
 - > staticfiles
 - templates folder contains:
 - index.html
 - main.html
 - navbar.html
 - projects.html**
 - db.sqlite3
 - manage.py
- Code Editor:** The current file is projects.html, which extends main.html and displays a table of projects. The code includes logic for editing, deleting, and viewing projects.
- Bottom Status Bar:** Python 3.9.5 64-bit ('env': venv) ⊗ 0 Δ 0 ② Live Share ✓ html | ✓ projects.html Ln 5, Col 6 Spaces: 4 UTR-8 CRLF HTML ⚙ Go Live

We're not interested in keeping the same formatting as before, but we want to preserve a for loop in order to generate cards with each project data and with an horizontal limit.

Around line 45, you'll find a "column" class division:

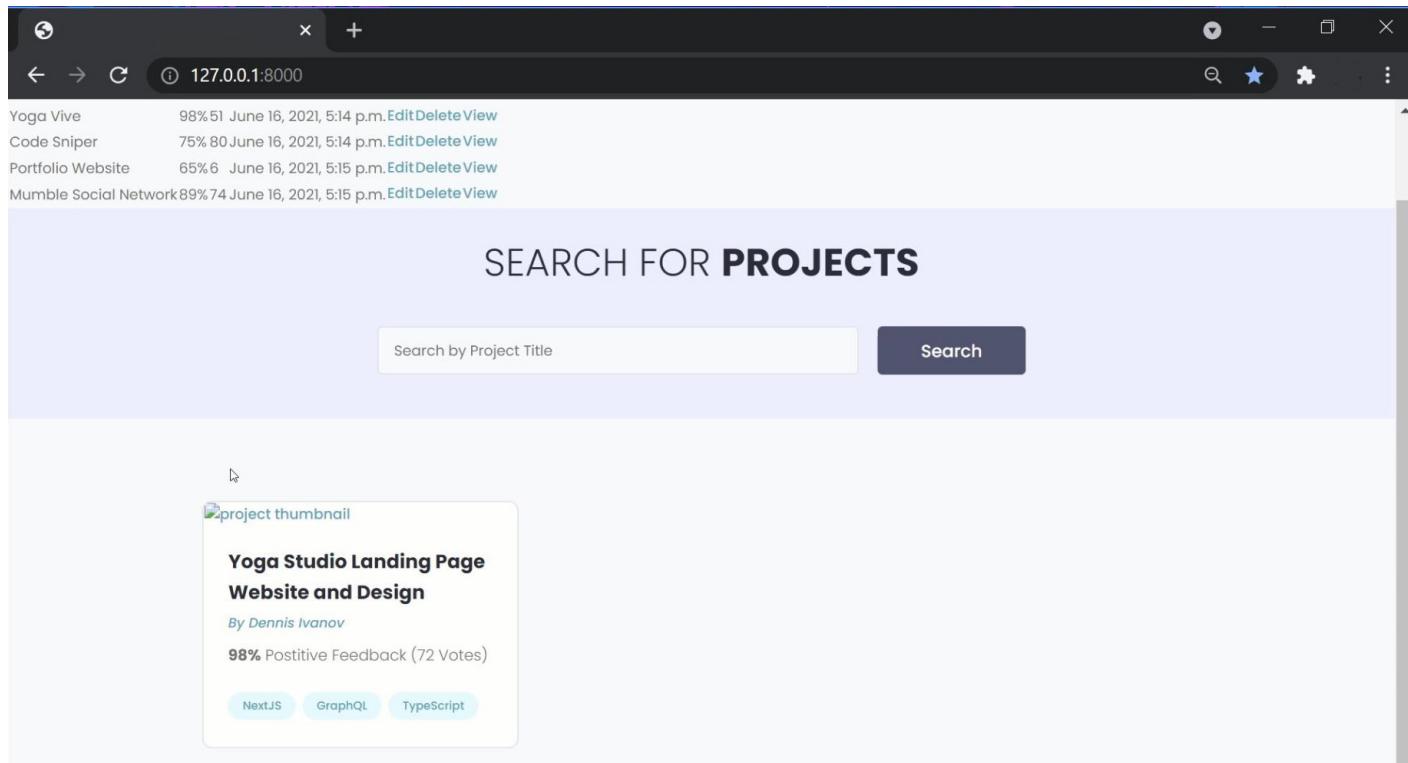


```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER ... projects > templates > projects > projects.html
DESEARCH delete_template.html
project_form.html
projects.html
single-project.html
_init_.py
admin.py
apps.py
forms.py
models.py
tests.py
urls.py
views.py
> static
> staticfiles
templates
index.html
main.html
navbar.html
projects.html
db.sqlite3
manage.py
OUTLINE
Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 12 Live Share ✓ html | ✓ projects.html
Ln 45, Col 19 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

```

find its ending tag and from the ending tag, delete all subsequent "column" divisions so you just keep a single card:



SEARCH FOR PROJECTS

Search by Project Title

Yoga Vive 98% 51 June 16, 2021, 5:14 p.m. Edit Delete View

Code Sniper 75% 80 June 16, 2021, 5:14 p.m. Edit Delete View

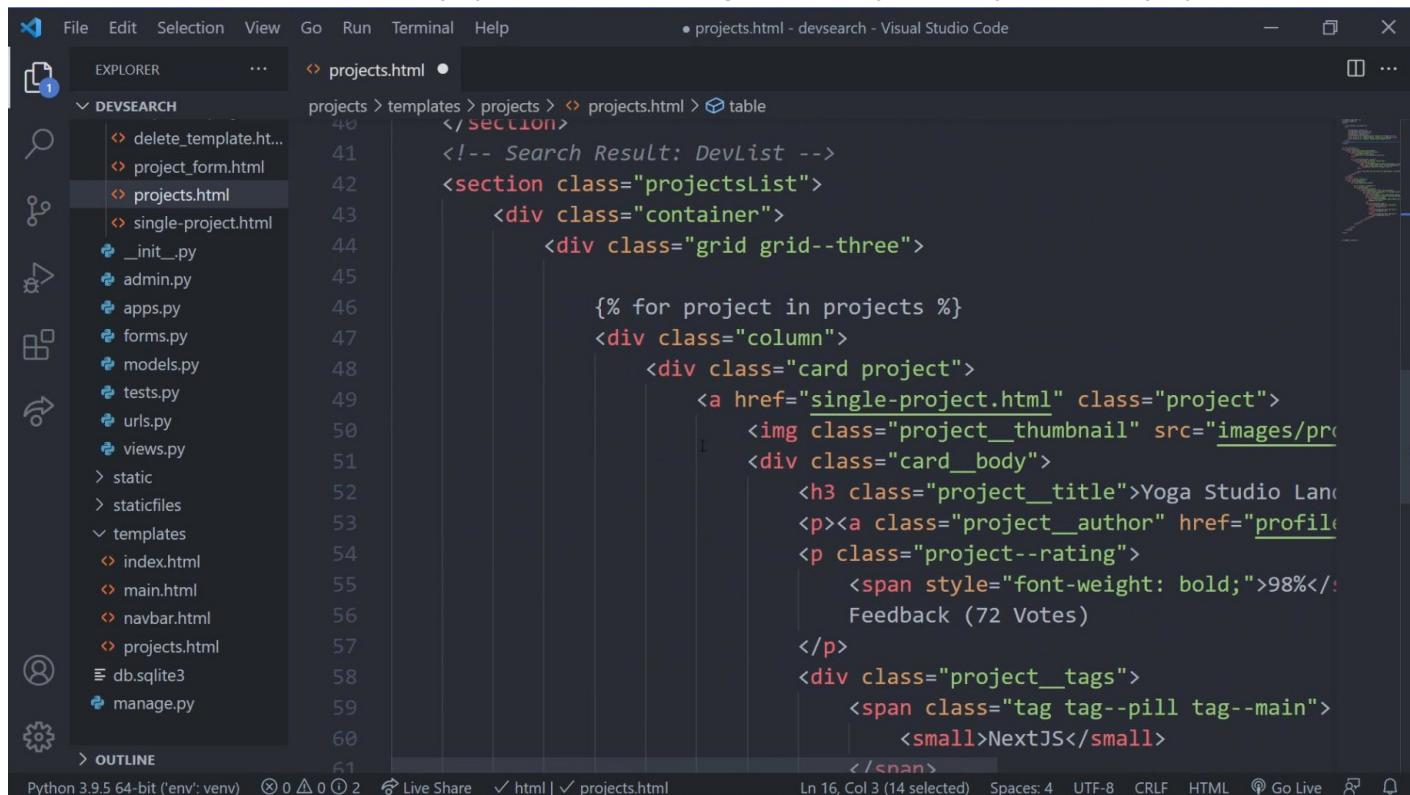
Portfolio Website 65% 6 June 16, 2021, 5:15 p.m. Edit Delete View

Mumble Social Network 89% 74 June 16, 2021, 5:15 p.m. Edit Delete View

Yoga Studio Landing Page
Website and Design
By Dennis Ivanov
98% Positive Feedback (72 Votes)

NextJS GraphQL TypeScript

Next, insert the card into a for-loop cycle so each card is generated dynamically with each project data.

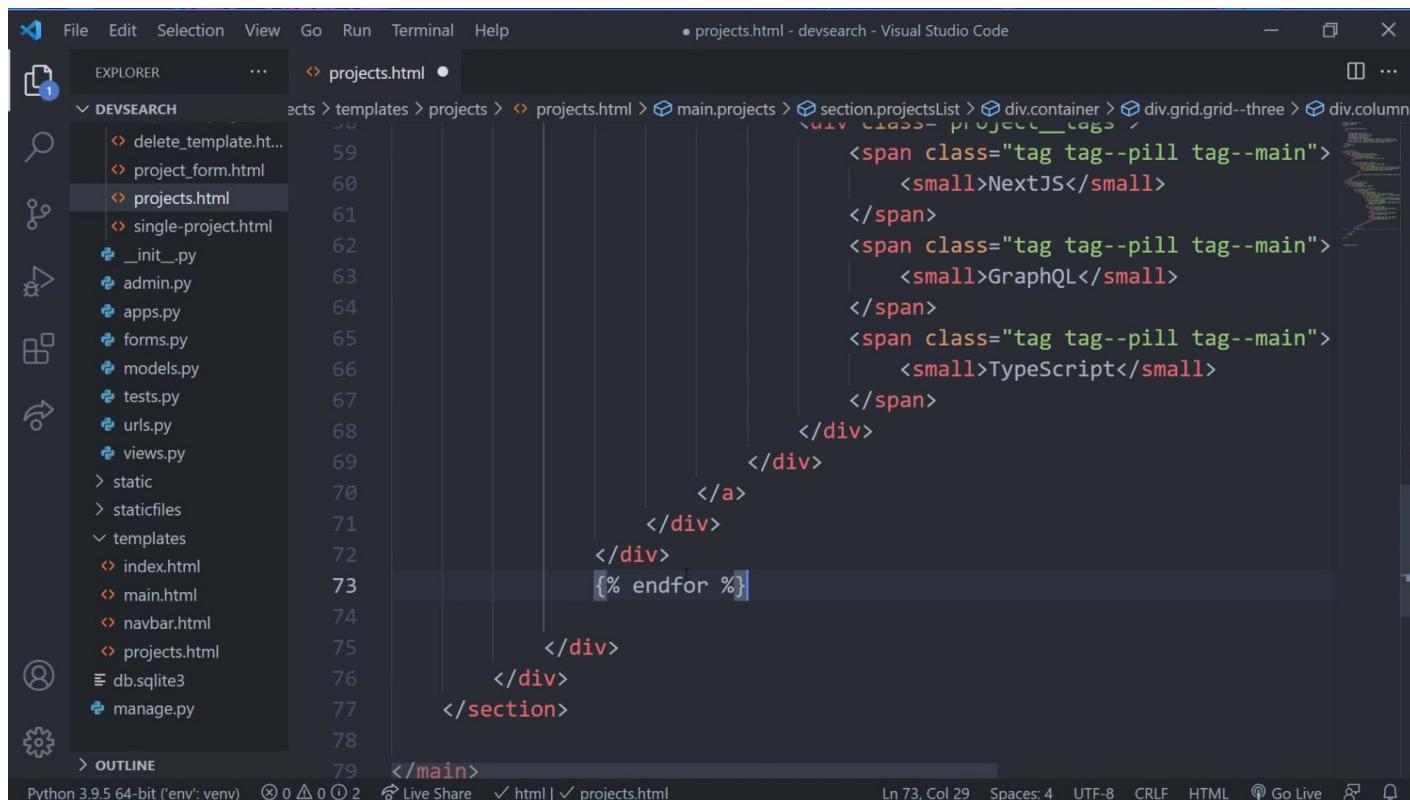


```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER
DEVSEARCH
projects > templates > projects > projects.html
projects > templates > projects > projects.html > table
40   </section>
41   <!-- Search Result: DevList -->
42   <section class="projectsList">
43     <div class="container">
44       <div class="grid grid--three">
45         {% for project in projects %}
46           <div class="column">
47             <div class="card project">
48               <a href="single-project.html" class="project">
49                 
51                 <h3 class="project__title">Yoga Studio Land...
52                 <p><a class="project__author" href="profile...
53                 <p class="project--rating">
54                   <span style="font-weight: bold;">98%</span>
55                   Feedback (72 Votes)
56                 </p>
57                 <div class="project__tags">
58                   <span class="tag tag--pill tag--main">
59                     <small>NextJS</small>
60                   </span>
61                 </div>
62               </div>
63             </div>
64           </div>
65         {% endfor %}
66       </div>
67     </div>
68   </div>
69 </main>

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 0 ⚡ 2 🔍 Live Share ✓ html | ✓ projects.html Ln 16, Col 3 (14 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🔍



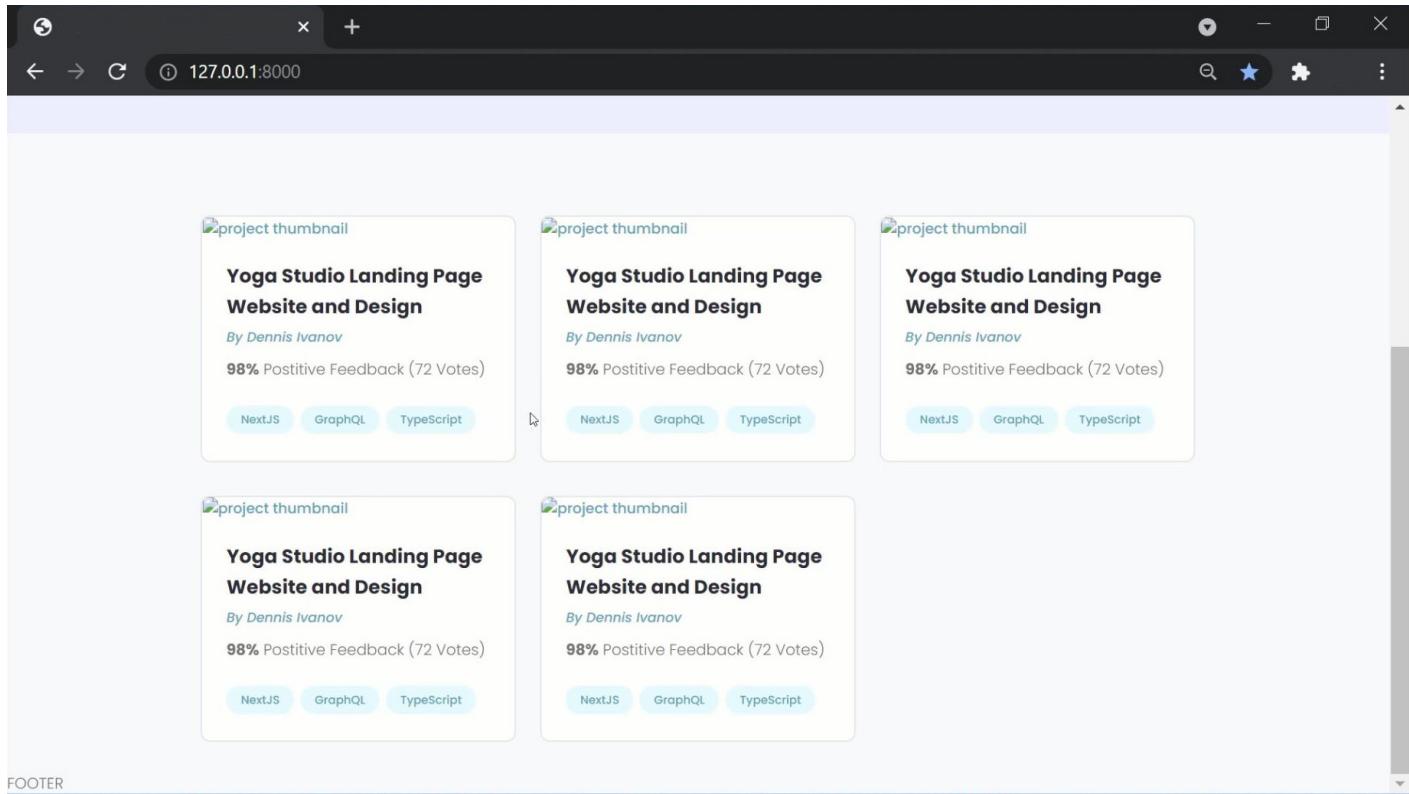
```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER
DEVSEARCH
projects > templates > projects > projects.html
projects > templates > projects > projects.html > main.projects > section.projectsList > div.container > div.grid.grid--three > div.column
59   <div class="column">
60     <div class="card project">
61       <a href="single-project.html" class="project">
62         
64         <h3 class="project__title">Yoga Studio Land...
65         <p><a class="project__author" href="profile...
66         <p class="project--rating">
67           <span style="font-weight: bold;">98%</span>
68           Feedback (72 Votes)
69         </p>
70         <div class="project__tags">
71           <span class="tag tag--pill tag--main">
72             <small>NextJS</small>
73           </span>
74           <span class="tag tag--pill tag--main">
75             <small>GraphQL</small>
76           </span>
77           <span class="tag tag--pill tag--main">
78             <small>TypeScript</small>
79           </span>
80         </div>
81       </div>
82     </div>
83   </div>
84 </div>
85 </div>
86 </div>
87 </div>
88 </div>
89 </div>
90 </div>
91 </div>
92 </div>
93 </div>
94 </div>
95 </div>
96 </div>
97 </div>
98 </div>
99 </div>

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 0 ⚡ 2 🔍 Live Share ✓ html | ✓ projects.html Ln 73, Col 29 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🔍

If you refresh the page, you should be able to see a series of cards with the same static information:



FOOTER

Let's change the card titles by changing the hardcoded title in the card with the variable

```
 {{project.title}}
```

in line 52:

```

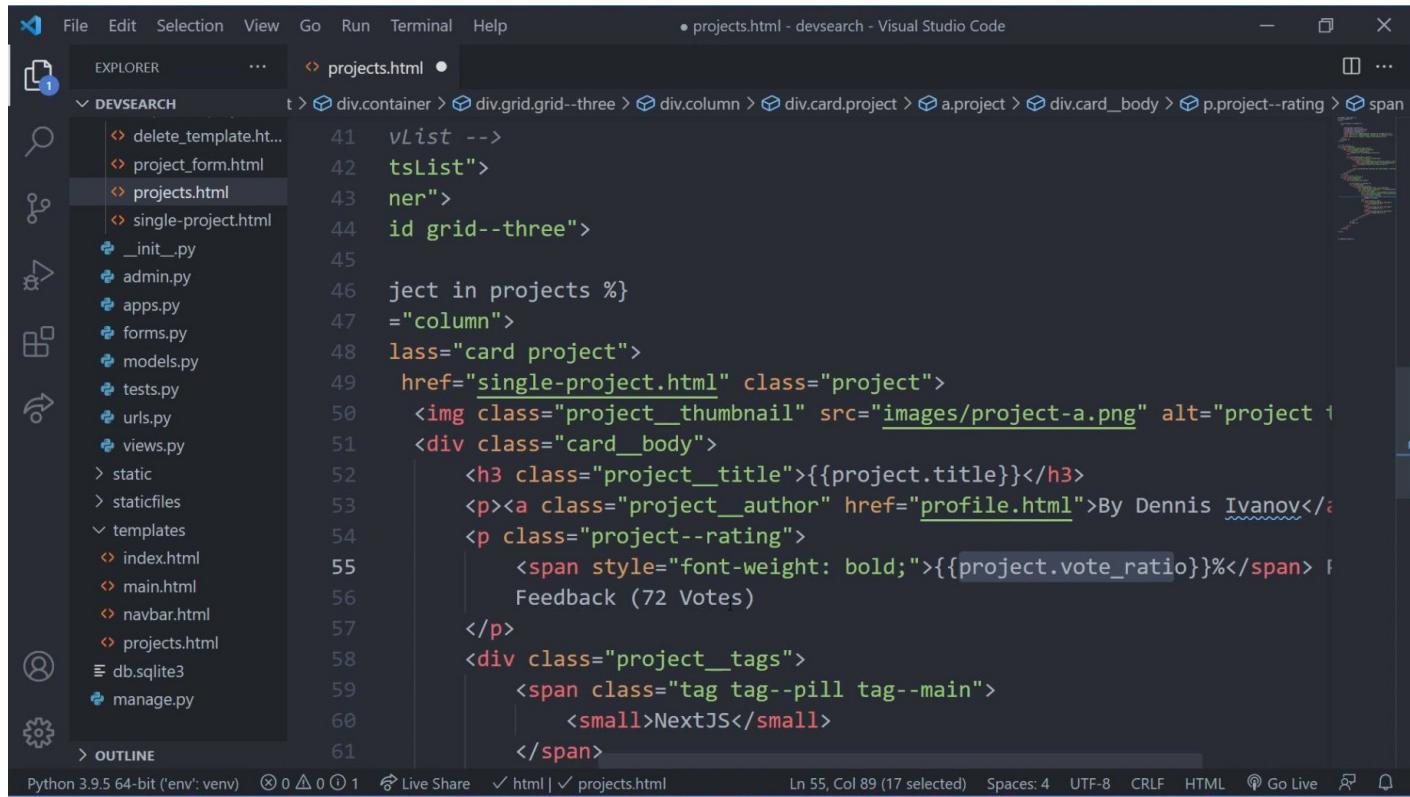
File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER ... > projects.html •
DEVSEARCH 1.projectsList > div.container > div.grid.grid--three > div.column > div.card.project > a.project > div.card_body > h3.project_title
delete_template.htm... 41
project_form.html 42
projects.html 43
single-project.html 44 three">
_init_.py 45
admin.py 46
apps.py 47
forms.py 48
models.py 49
tests.py 50
urls.py 51
views.py 52
> static 53
> staticfiles 54
templates 55
index.html 56
main.html 57
navbar.html 58
projects.html 59
db.sqlite3 60
manage.py 61
> OUTLINE
{{project.title}}
<a class="project_author" href="#">profile.html

The screenshot shows the Visual Studio Code interface with the 'projects.html' file open. The code is a template for a project card. In line 52, the title 'Yoga Studio Landing Page Website and Design' is replaced by the variable `{{project.title}}` in red, indicating it's a placeholder. The rest of the card template includes the author ('By Dennis Ivanov'), a rating section ('98% Postitive Feedback (72 Votes)'), and a tags section ('NextJS'). The 'DEVSEARCH' extension is visible in the sidebar, and the file path '1.projectsList' is shown above the code editor.


```

and we'll be doing exactly the same thing for the rest of the data in the card.

Change the vote ratio:



```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code

EXPLORER
DEVSEARCH
    delete_template.html
    project_form.html
    projects.html
    single-project.html
    __init__.py
    admin.py
    apps.py
    forms.py
    models.py
    tests.py
    urls.py
    views.py
    static
    staticfiles
    templates
        index.html
        main.html
        navbar.html
        projects.html
    db.sqlite3
    manage.py

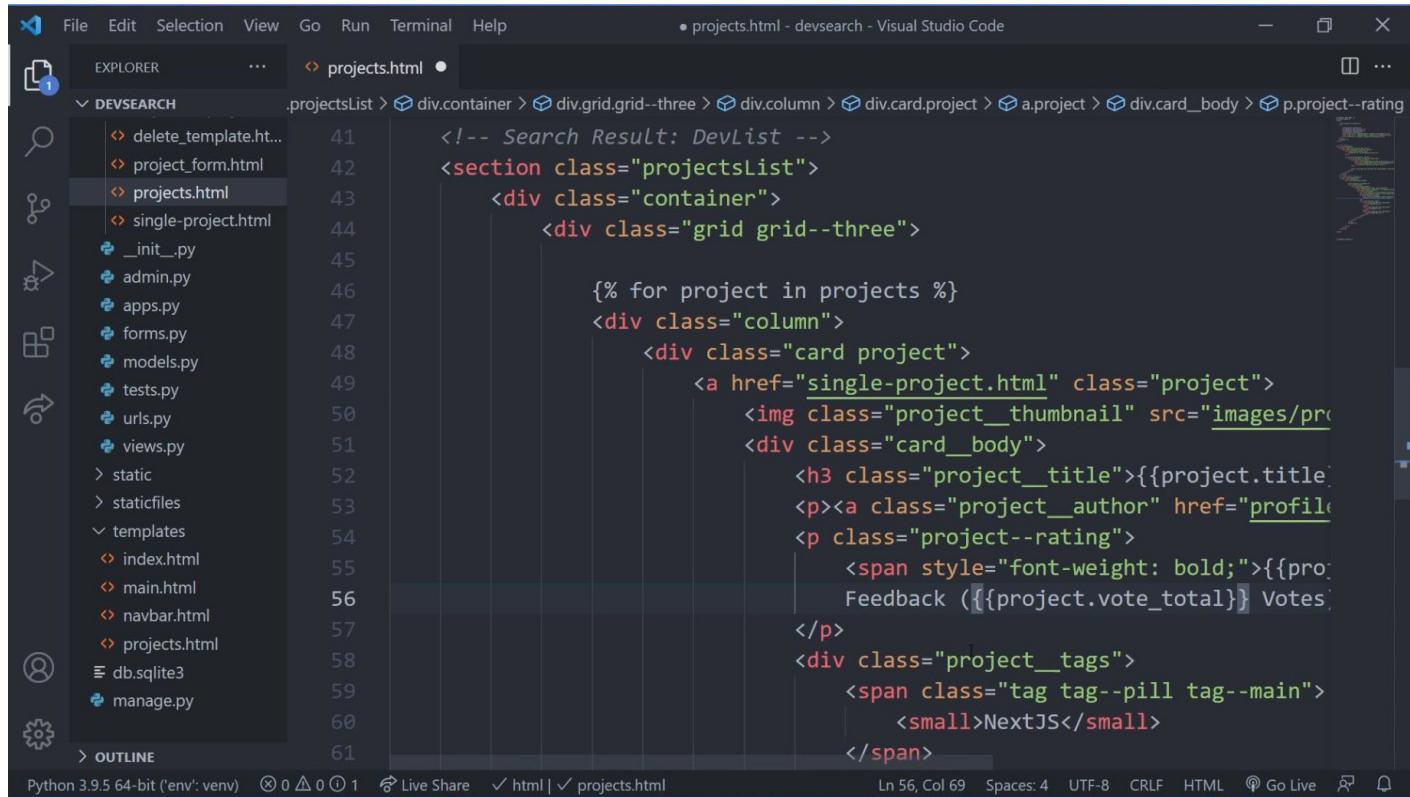
OUTLINE

41 vList -->
42 tsList">
43 ner">
44 id grid--three">
45
46 ject in projects %}
47 ="column">
48 lass="card project">
49 href="single-project.html" class="project">
50 
51 <div class="card_body">
52     <h3 class="project_title">{{project.title}}</h3>
53     <p><a class="project_author" href="profile.html">By Dennis Ivanov</a></p>
54     <p class="project--rating">
55         <span style="font-weight: bold;">{{project.vote_ratio}}%</span>
56         Feedback (72 Votes)
57     </p>
58     <div class="project_tags">
59         <span class="tag tag--pill tag--main">
60             <small>NextJS</small>
61         </span>

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 1 🔍 Live Share ✓ html | ✓ projects.html Ln 55, Col 89 (17 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

ant the total vote:



```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code

EXPLORER
DEVSEARCH
    delete_template.html
    project_form.html
    projects.html
    single-project.html
    __init__.py
    admin.py
    apps.py
    forms.py
    models.py
    tests.py
    urls.py
    views.py
    static
    staticfiles
    templates
        index.html
        main.html
        navbar.html
        projects.html
    db.sqlite3
    manage.py

OUTLINE

41 <!-- Search Result: DevList -->
42 <section class="projectsList">
43     <div class="container">
44         <div class="grid grid--three">
45             {% for project in projects %}
46                 <div class="column">
47                     <div class="card project">
48                         <a href="single-project.html" class="project">
49                             
50                             <div class="card_body">
51                                 <h3 class="project_title">{{project.title}}</h3>
52                                 <p><a class="project_author" href="profile.html">By Dennis Ivanov</a></p>
53                                 <p class="project--rating">
54                                     <span style="font-weight: bold;">{{project.vote_ratio}}%</span>
55                                     Feedback ({{project.vote_total}} Votes)
56                                 </p>
57                                 <div class="project_tags">
58                                     <span class="tag tag--pill tag--main">
59                                         <small>NextJS</small>
60                                     </span>

```

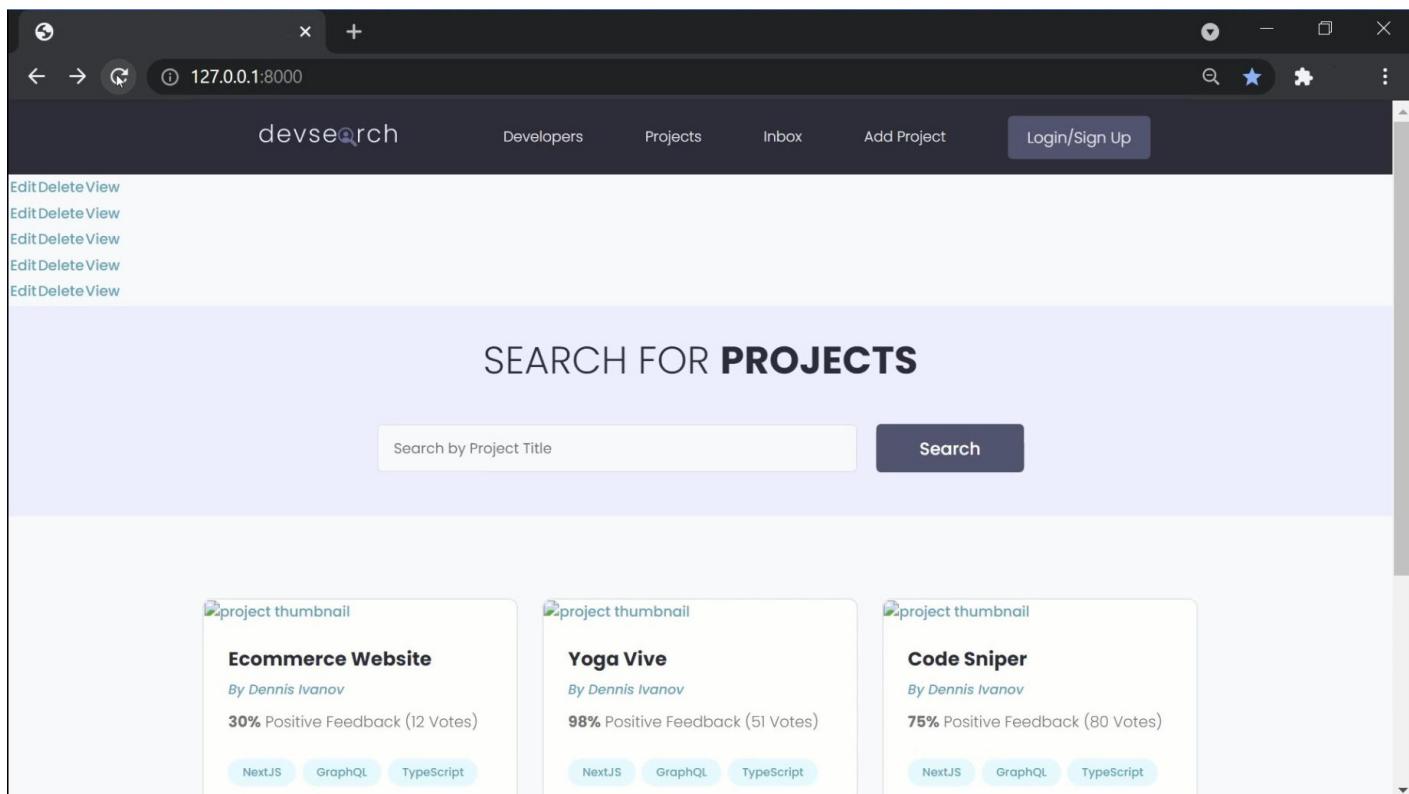
Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 1 🔍 Live Share ✓ html | ✓ projects.html Ln 56, Col 69 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

Remove the table elements at the begining of the template file:

The screenshot shows a Visual Studio Code interface with the following details:

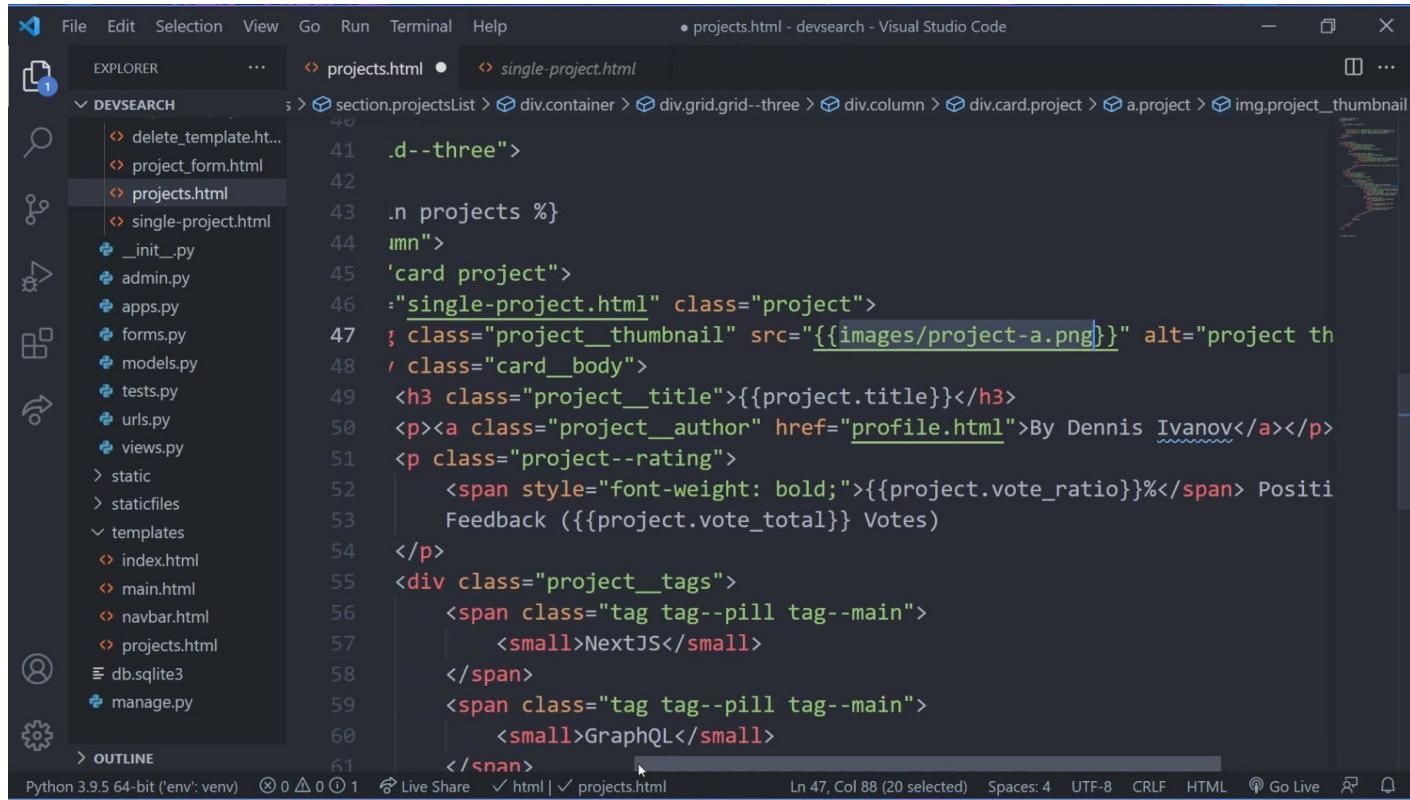
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** projects.html - devsearch - Visual Studio Code.
- Sidebar (Left):** Explorer, DEVSEARCH, and a list of files:
 - delete_template.html
 - project_form.html
 - projects.html** (highlighted)
 - single-project.html
 - __init__.py
 - admin.py
 - apps.py
 - forms.py
 - models.py
 - tests.py
 - urls.py
 - views.py
 - > static
 - > staticfiles
 - templates
 - index.html
 - main.html
 - navbar.html
 - projects.html
 - db.sqlite3
 - manage.py
- Central Area:** A code editor showing the contents of the projects.html file. The file contains a table with rows for each project, each row containing three buttons for Edit, Delete, and View. The code uses Django's templating language ({{% }}) and HTML.
- Bottom Status Bar:** Python 3.9.5 64-bit ('env': venv), Live Share, html, projects.html, Ln 8, Col 8, Spaces: 4, UTF-8, CRLF, HTML, Go Live, and a bell icon.

so we see:



the changes in title, voting ratios, total votes and the table at the top of the pages is almost gone since we removed the main elements.

To include the individual images for each project we include the project image variable. Change:

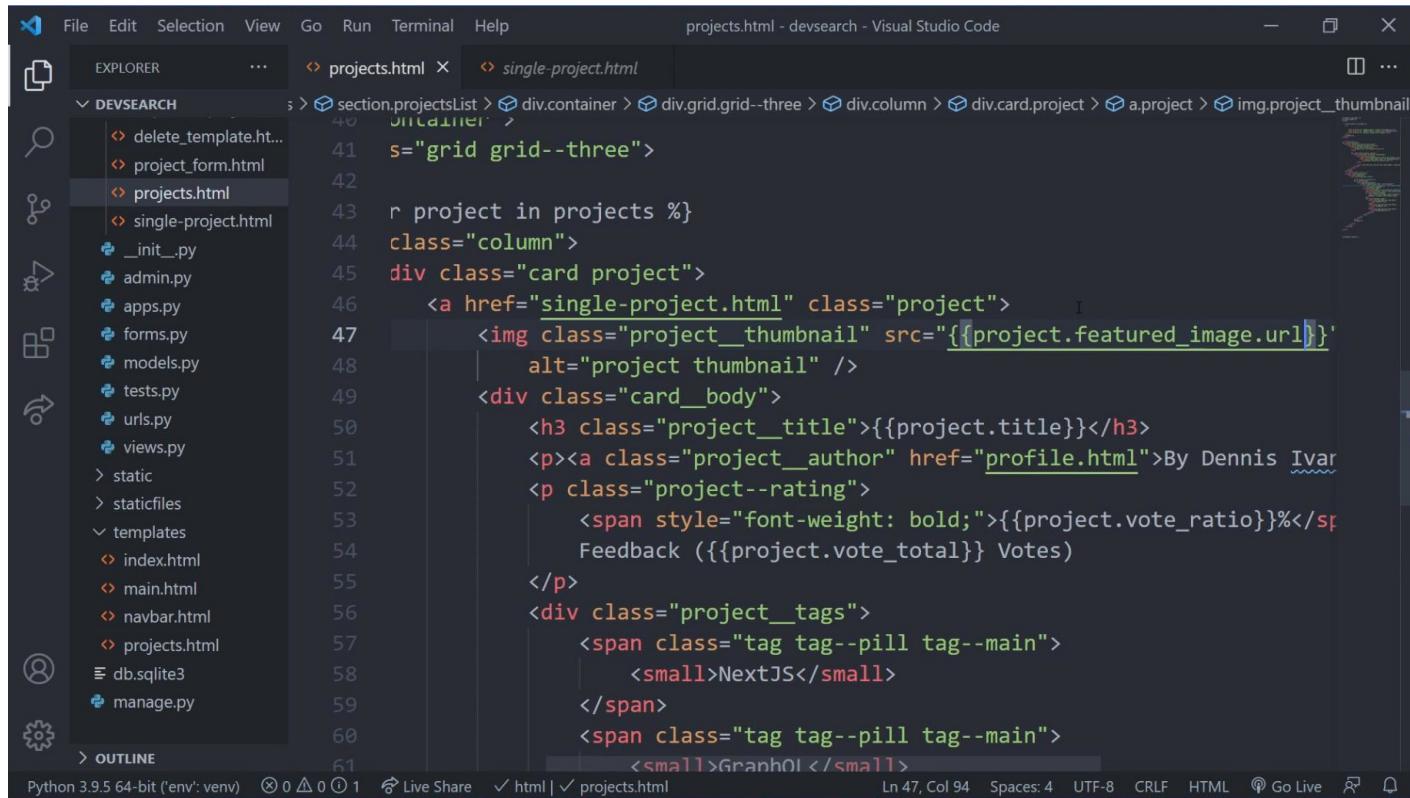


```

File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER ... > projects.html > single-project.html
DEVSERACH
delete_template.html
project_form.html
projects.html
single-project.html
__init__.py
admin.py
apps.py
forms.py
models.py
tests.py
urls.py
views.py
> static
> staticfiles
> templates
index.html
main.html
navbar.html
projects.html
db.sqlite3
manage.py
OUTLINE
Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 0 ⚡ 1 Live Share ✓ html | ✓ projects.html Ln 47, Col 88 (20 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡
41 .d--three">
42
43 in projects %}
44 &mn">
45 'card project">
46 :-"single-project.html" class="project">
47 ; class="project_thumbnail" src="{{images/project-a.png}}" alt="project th
48 / class="card_body">
49 <h3 class="project_title">{{project.title}}</h3>
50 <p><a class="project_author" href="profile.html">By Dennis Ivanov</a></p>
51 <p class="project--rating">
52     <span style="font-weight: bold;">{{project.vote_ratio}}%</span> Positi
      Feedback {{project.vote_total}} Votes)
53 </p>
54 <div class="project_tags">
55     <span class="tag tag--pill tag--main">
56         <small>NextJS</small>
57     </span>
58     <span class="tag tag--pill tag--main">
59         <small>GraphQL</small>
60     </span>
61 </span>

```

to

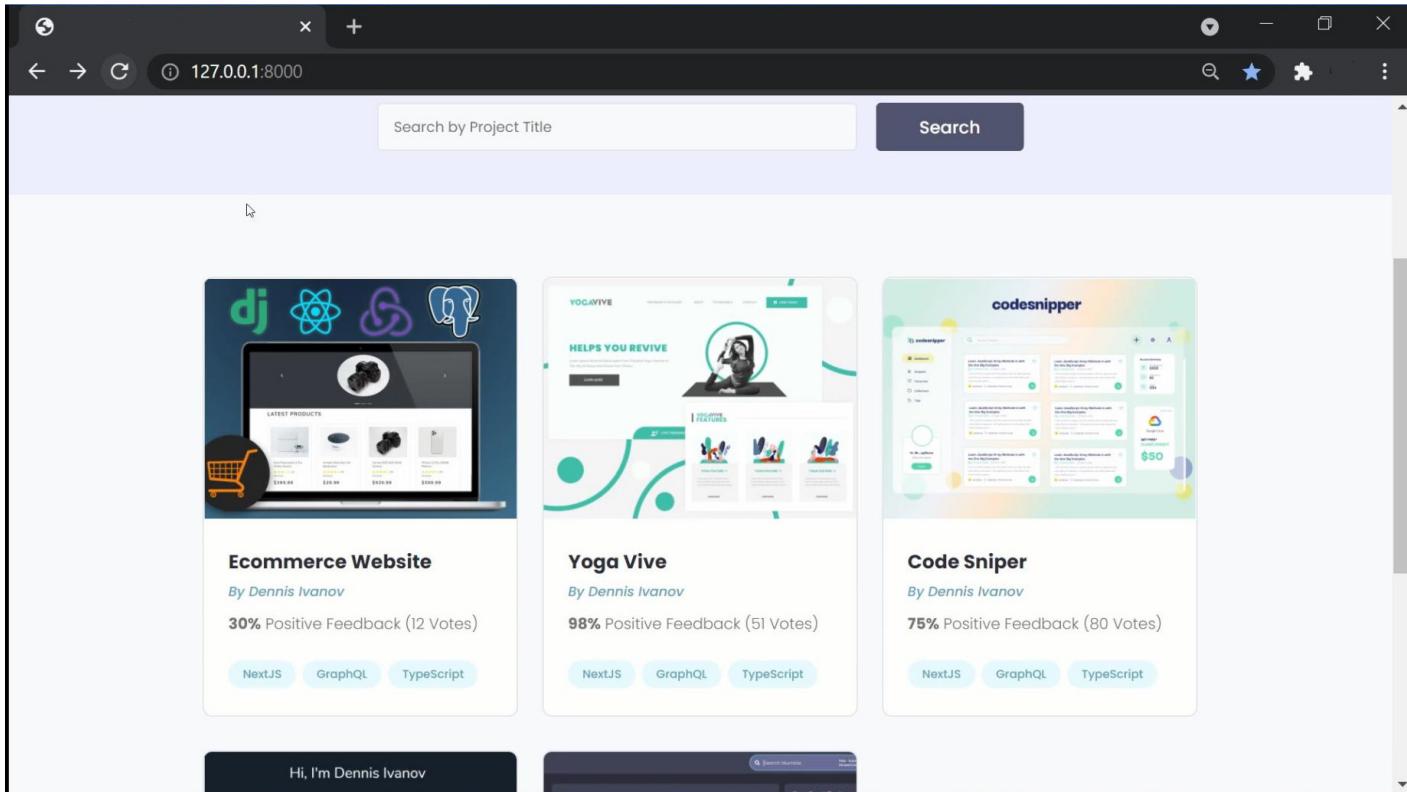


```

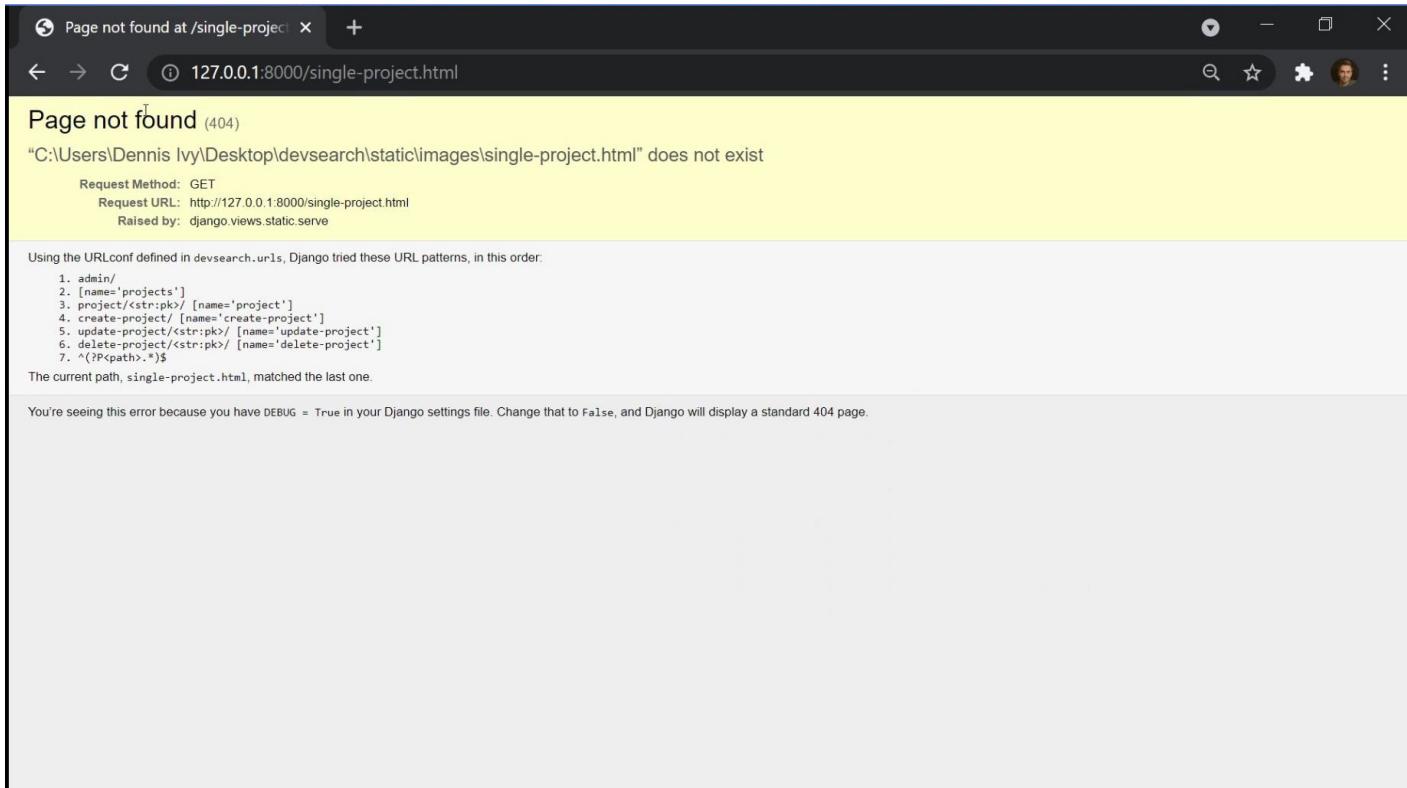
File Edit Selection View Go Run Terminal Help
• projects.html - devsearch - Visual Studio Code
EXPLORER ... > projects.html > single-project.html
DEVSERACH
delete_template.html
project_form.html
projects.html
single-project.html
__init__.py
admin.py
apps.py
forms.py
models.py
tests.py
urls.py
views.py
> static
> staticfiles
> templates
index.html
main.html
navbar.html
projects.html
db.sqlite3
manage.py
OUTLINE
Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 0 ⚡ 1 Live Share ✓ html | ✓ projects.html Ln 47, Col 94 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡
41 s="grid grid--three">
42
43 r project in projects %}
44 class="column">
45 div class="card project">
46     <a href="single-project.html" class="project">
47         
49         <div class="card_body">
50             <h3 class="project_title">{{project.title}}</h3>
51             <p><a class="project_author" href="profile.html">By Dennis Ivar
52             <p class="project--rating">
53                 <span style="font-weight: bold;">{{project.vote_ratio}}%</span>
54                 Feedback {{project.vote_total}} Votes)
55             </p>
56             <div class="project_tags">
57                 <span class="tag tag--pill tag--main">
58                     <small>NextJS</small>
59                 </span>
59                 <span class="tag tag--pill tag--main">
60                     <small>GraphQL</small>
61                 </span>

```

refresh the page and you should be able to see each project image on the card:



Try to click on one of the images. You should get redirected to an error page:



The error is because we haven't inserted the corresponding hyperlink to the corresponding project page.

Modify the corresponding reference in as shown for the line 46 and for the time being until we can place the author in the card on line 51 as shown below:

```

    projects.html - devsearch - Visual Studio Code
    File Edit Selection View Go Run Terminal Help
    EXPLORER ... projects.html single-project.html
    DEVSEARCH
    delete_template.html
    project_form.html
    projects.html
    single-project.html
    __init__.py
    admin.py
    apps.py
    forms.py
    models.py
    tests.py
    urls.py
    views.py
    static
    staticfiles
    templates
    index.html
    main.html
    navbar.html
    projects.html
    db.sqlite3
    manage.py
    > OUTLINE
    Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 ① 1 Live Share ✓ html | ✓ projects.html
    37      vList -->
    38      tsList">
    39      .ner">
    40      id grid--three">
    41
    42      object in projects %}
    43      := "column">
    44      class="card project">
    45      href="{% url 'project' project.id %}" class="project">
    46      img class="project_thumbnail" src="{{project.featured_image.url}}</img>
    47      alt="project thumbnail" />
    48      <div class="card__body">
    49          <h3 class="project__title">{{project.title}}</h3>
    50          <p><a class="project__author" href="{% url 'project' project.id %}">
    51              <p class="project--rating">
    52                  <span style="font-weight: bold;">{{project.vote_ratio}}%</span>
    53                  Feedback {{project.vote_total}} Votes
    54              </p>
    55              <div class="project__tags">
    56                  <span class="tag tag--pill tag--main">
    
```

Now, we need to show all the tags for each project with each card in the new theme. The modifications to the template are as follows:

- In the profile page template "single-project.html" we already added the variables for the tags:

```

    single-project.html - devsearch - Visual Studio Code
    File Edit Selection View Go Run Terminal Help
    EXPLORER ... single-project.html
    DEVSEARCH
    delete_template.html
    project_form.html
    projects.html
    single-project.html
    __init__.py
    admin.py
    apps.py
    forms.py
    models.py
    tests.py
    urls.py
    views.py
    static
    staticfiles
    templates
    index.html
    main.html
    navbar.html
    projects.html
    db.sqlite3
    manage.py
    > OUTLINE
    Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 ① 1 Live Share ✓ html | ✓ single-project.html
    1      {% extends 'main.html' %}
    2
    3      {% block content %}
    4
    5      {{tag}}</span>
    11     {% endfor %}
    12     <hr>
    13     <br>
    14     <p>{{project.description}}</p>
    15
    16     {% endblock %}
    
```

- In the "projects.html" we search for the division **class="projects_tags"** and delete all the **span class="tag tag--pill tag--main"** except for one. This span will be our dynamic tag variable:

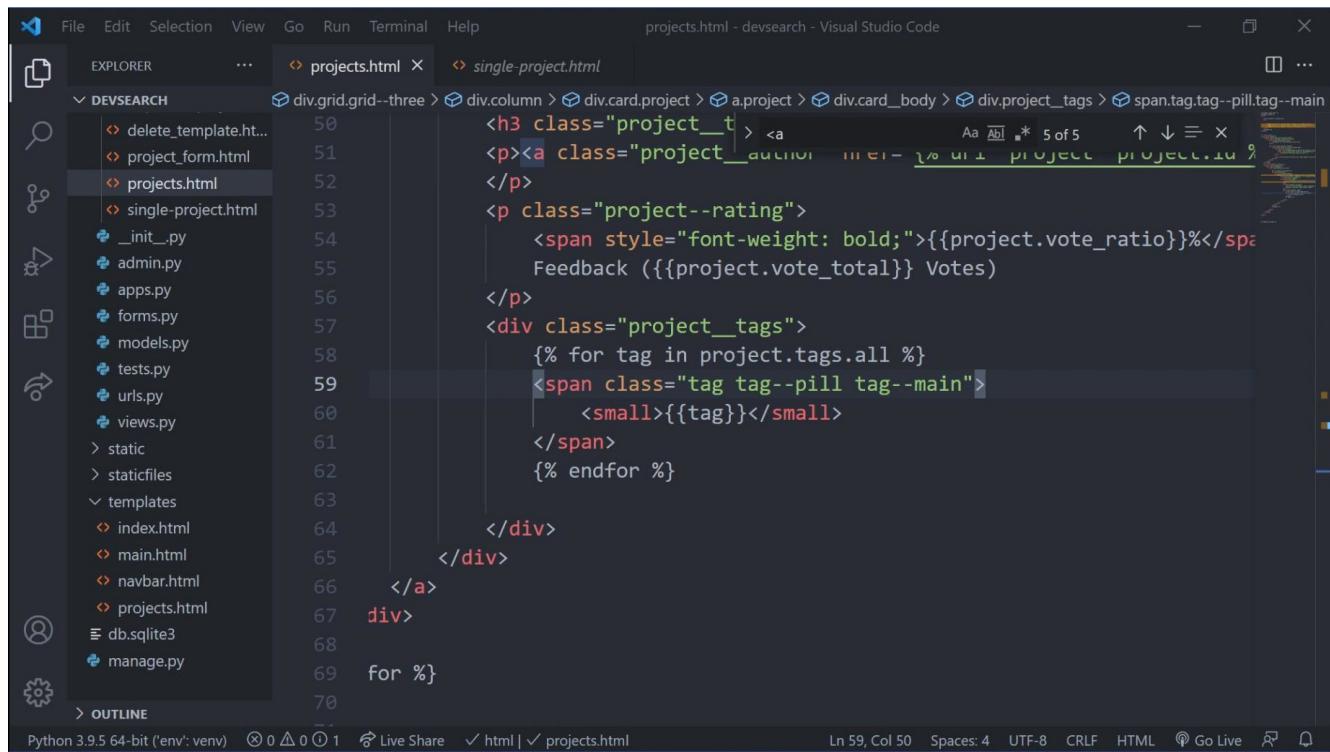
```
<h3 class="project__title"><a href="#">{{ project.title }}</a></h3>
<p><a href="#" class="project__author">{{ project.author }}</a></p>
<p class="project--rating">
    <span style="font-weight: bold;">{{ project.vote }}</span>
    Feedback ({{ project.vote_total }} Votes)
</p>
<div class="project__tags">
    <span class="tag tag--pill tag--main">
        <small>NextJS</small>
    </span>
    <span class="tag tag--pill tag--main">
        <small>GraphQL</small>
    </span>
    <span class="tag tag--pill tag--main">
        <small>TypeScript</small>
    </span>
</div>
</div>
</div>
```

and add a for-loop for the dynamic variable:

```
{% for tag in project.tags.all %}
```

and change **NextJS** for the Jinja variable **{{}}**:

```
{{ tag }}
```



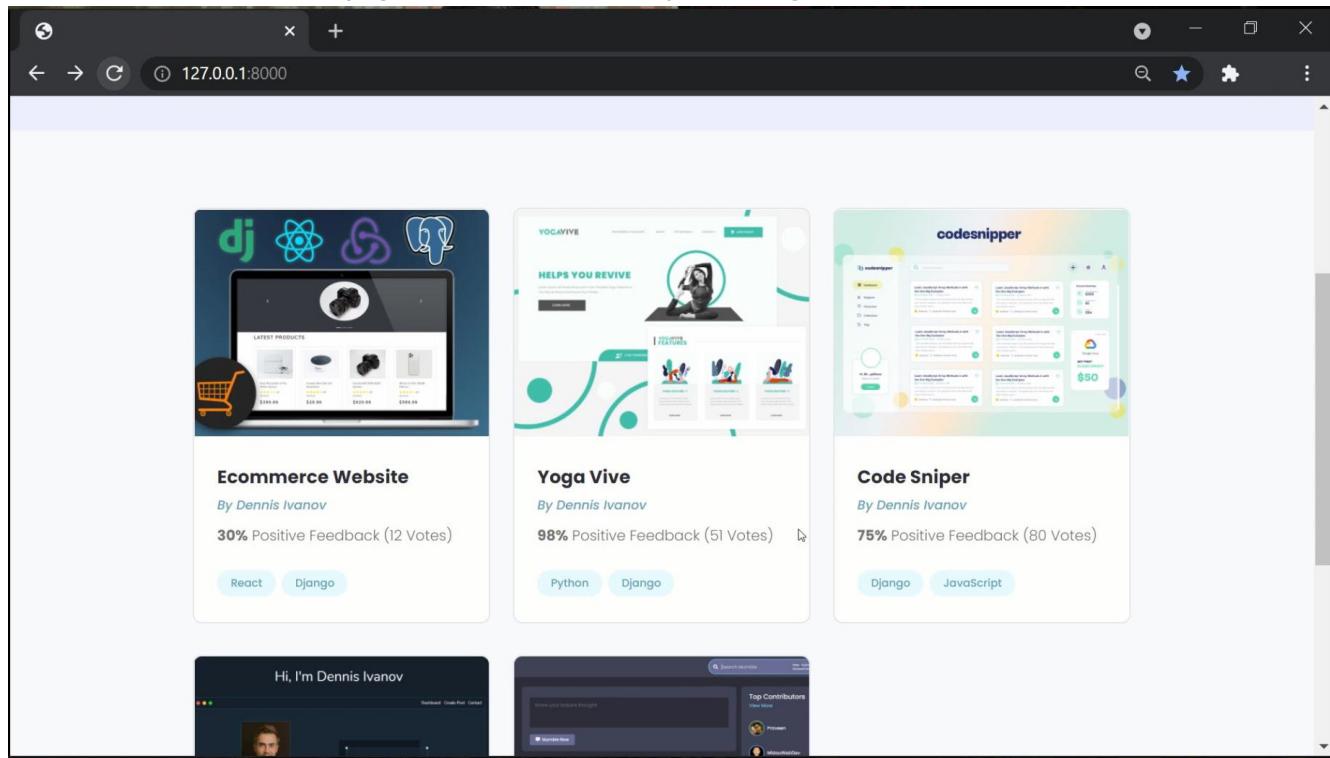
```

50 <h3 class="project__title"><a href="#">
51 <p><a class="project__author" href="#">Abi * 5 of 5</a>
52 </p>
53 <p class="project--rating">
54   <span style="font-weight: bold;">{{project.vote_ratio}}%</span>
55   Feedback {{project.vote_total}} Votes
56 </p>
57 <div class="project__tags">
58   {% for tag in project.tags.all %}
59     <span class="tag tag--pill tag--main">
60       <small>{{tag}}</small>
61     </span>
62   {% endfor %}
63 </div>
64 </div>
65 </a>
66 </div>
67 div>
68 for %}
69
70

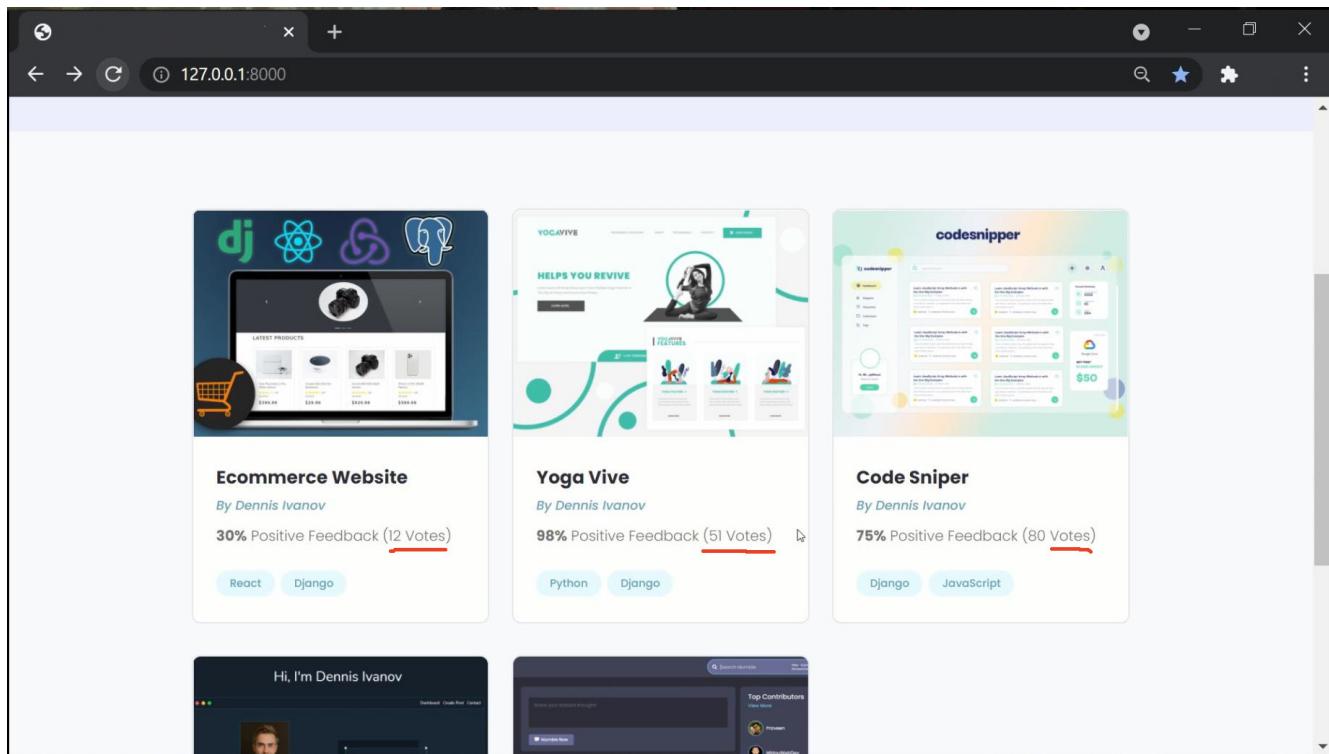
```

Python 3.9.5 64-bit ('env': venv) 0 0 0 0 Live Share ✓ html | ✓ projects.html Ln 59, Col 50 Spaces: 4 UTF-8 CRLF HTML Go Live

and now, if we refresh the page we should see the dynamic tags for each card:



- Fixing the plural for the number of votes. There's a method for Jinja to pluralize. The issue is that up to this point, the total number of votes assumes a number greater than one and thus, it always shows "votes" in the template:



Let's find the "Votes" inside the "projects.html" the section for the card and change the string

Votes

for

```
Vote{{ project.vote_total|pluralize:"s" }}
```

```

File Edit Selection View Go Run Terminal Help
projects.html < single-project.html
EXPLORER .projectsList > div.container > div.grid.grid--three > div.column > div.card.project > a.project > div.card_body > p.project--rating
32 >
33 d project">
34 url 'project' project.id %} class="project">
35 ass="project_thumbnail" src="{{project.featured_image.url}}"
36 ="project thumbnail" />
37 ass="card_body">
38 class="project_title">{{project.title}}</h3>
39 <a class="project_author" href="{% url 'project' project.id %}">By Dennis
40 >
41 class="project--rating">
42 <span style="font-weight: bold;">{{project.vote_ratio}}%</span> Positive
43 Feedback {{project.vote_total}} Vote{{project.vote_total|pluralize:"s"}}
44 >
45 v class="project_tags">
46 {% for tag in project.tags.all %}
47 <span class="tag tag--pill tag--main">
48 | <small>{{tag}}</small>
49 </span>
50 {% endfor %}
51
52 iv>

```

Python 3.9.5 64-bit ('env': venv) 0 0 1 Live Share html | projects.html Ln 43, Col 74 Spaces: 4 UTF-8 CRLF HTML Go Live

Test the change by going into the admin panel and change the number of votes of one of the projects and set it to 1.

Code Sniper | Change project | 127.0.0.1:8000/admin/projects/project/2e3ab357-1901-4dfc-b989-688f9d8fa770/change/

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add

PROJECTS

- Projects + Add
- Reviews + Add
- Tags + Add

Featured image: Currently: codesniper.png Clear Change: Choose File No file chosen

Demo link:

Source link:

Tags:

- React
- Django
- Python
- JavaScript

Hold down "Control", or "Command" on a Mac, to select more than one.

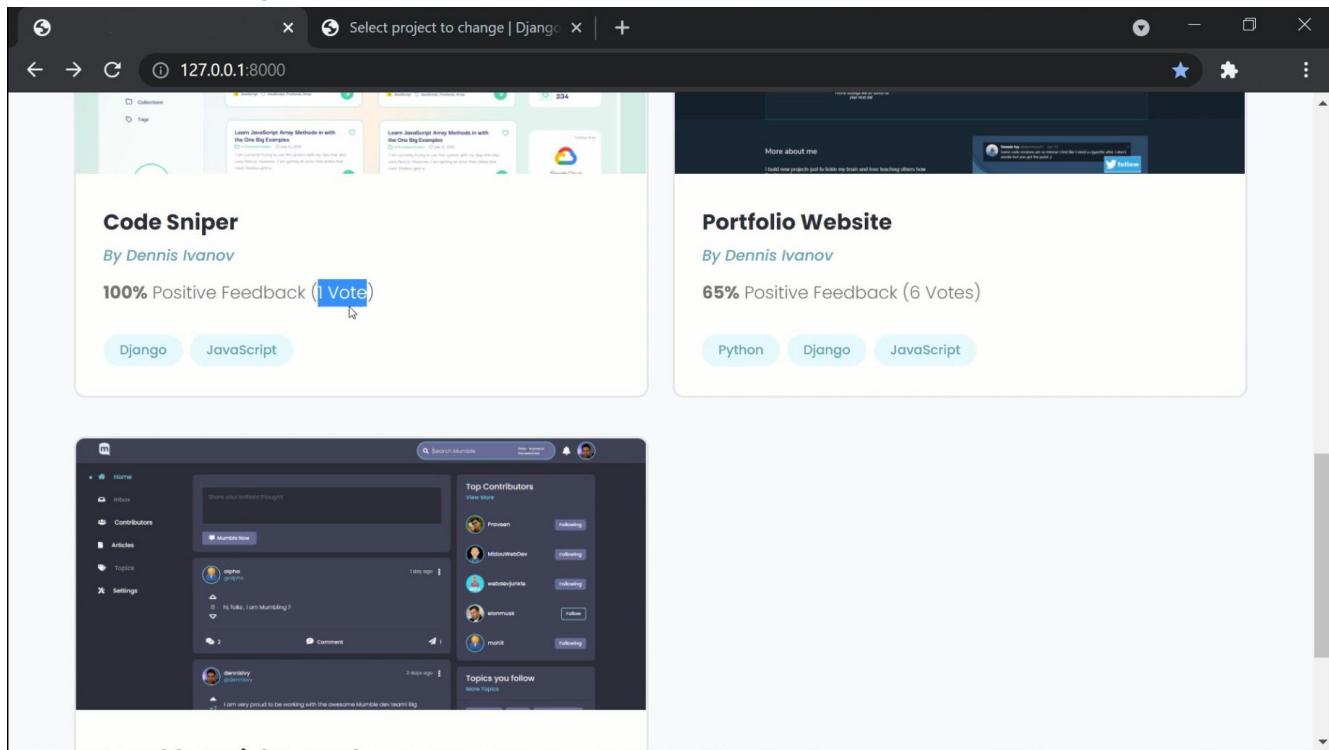
Vote total: 1

Vote ratio: 1:1

Delete Save and add another Save and continue editing SAVE

Refresh the page and we should see the change to the plural when the project has only one vote and

should show the singular "Vote"



- Clean up the table from the "projects.html" template:

```

File Edit Selection View Go Run Terminal Help
projects.html - devsearch - Visual Studio Code
EXPLORER DEVSEARCH
delete_template.html
project_form.html
projects.html
single-project.html
__init__.py
admin.py
apps.py
forms.py
models.py
tests.py
urls.py
views.py
static
staticfiles
templates
index.html
main.html
navbar.html
projects.html
db.sqlite3
manage.py
OUTLINE
Python 3.9.5 64-bit ('env': venv) ① Live Share ② html ✓ projects.html Ln 11, Col 22 (30 selected) Spaces: 4 UTRF HTML ⚡ Go Live

```

The screenshot shows the Visual Studio Code interface with the 'projects.html' file open. The code editor highlights several sections of the template with red underlines, indicating they are part of the old table structure that needs to be removed. These include the opening and closing table tags, the loop for projects, and the three columns within each row (Edit, Delete, View). The code is as follows:

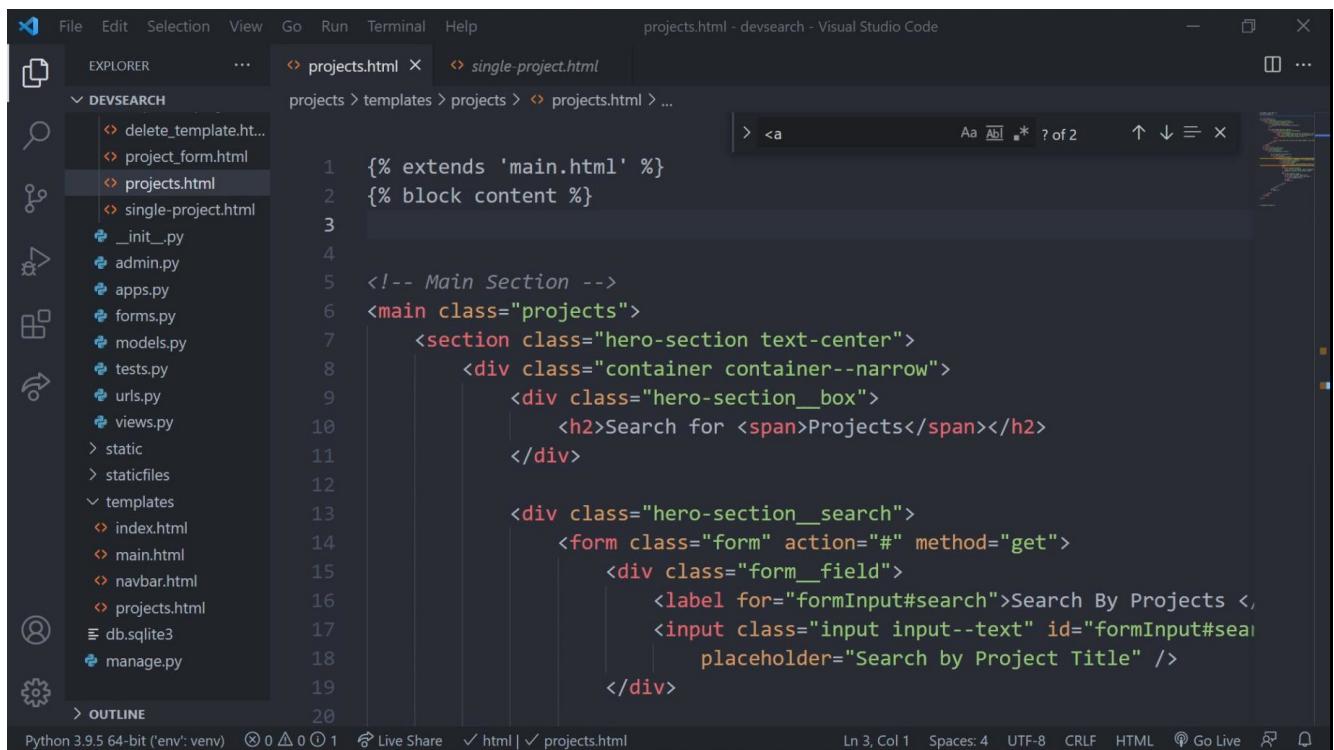
```

1  % extends 'main.html' %
2  % block content %
3  




```

so our template should start from the "main" tag:

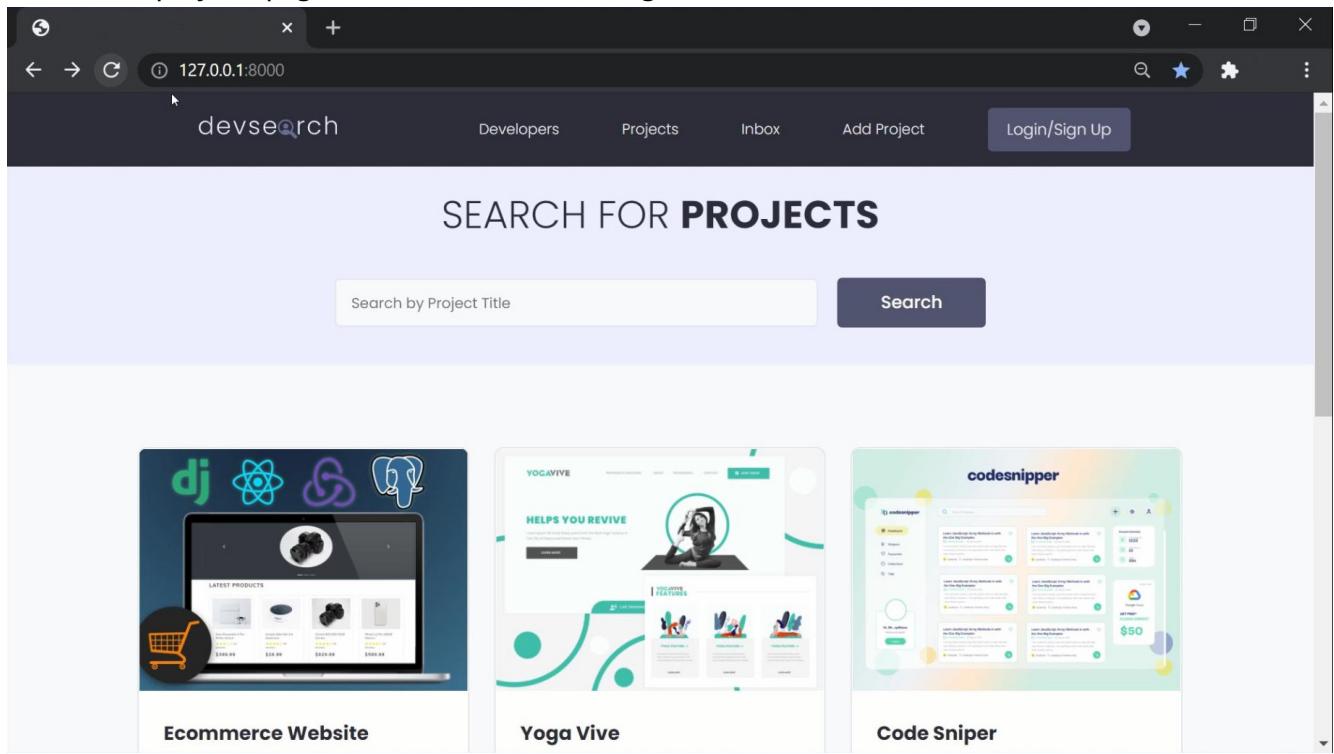


```

1  {% extends 'main.html' %} 
2  {% block content %} 
3 
4 
5  <!-- Main Section -->
6  <main class="projects">
7      <section class="hero-section text-center">
8          <div class="container container--narrow">
9              <div class="hero-section__box">
10                 <h2>Search for <span>Projects</span></h2>
11             </div>
12 
13             <div class="hero-section__search">
14                 <form class="form" action="#" method="get">
15                     <div class="form__field">
16                         <label for="formInput#search">Search By Projects </label>
17                         <input class="input input--text" id="formInput#search" placeholder="Search by Project Title" />
18                     </div>
19 
20

```

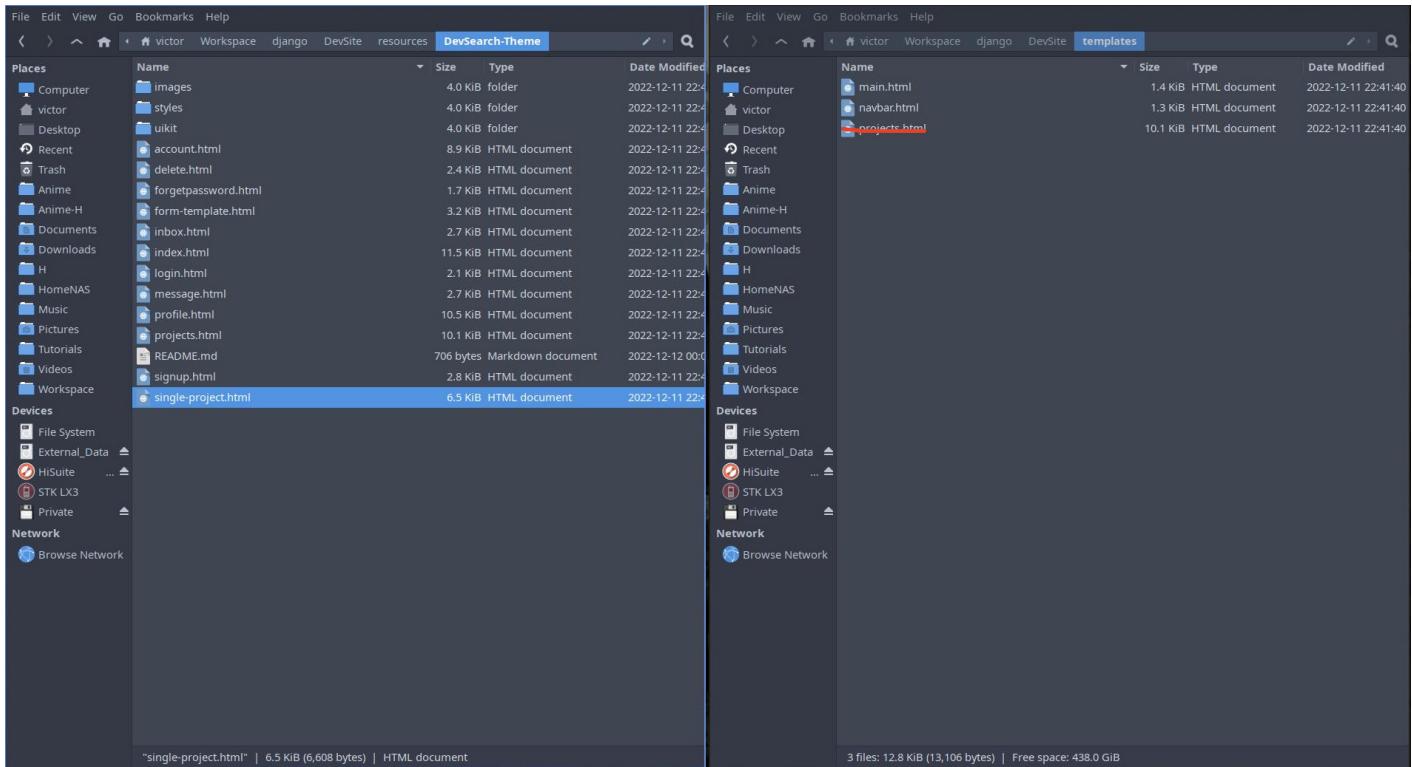
refresh the projects page and the table should be gone:



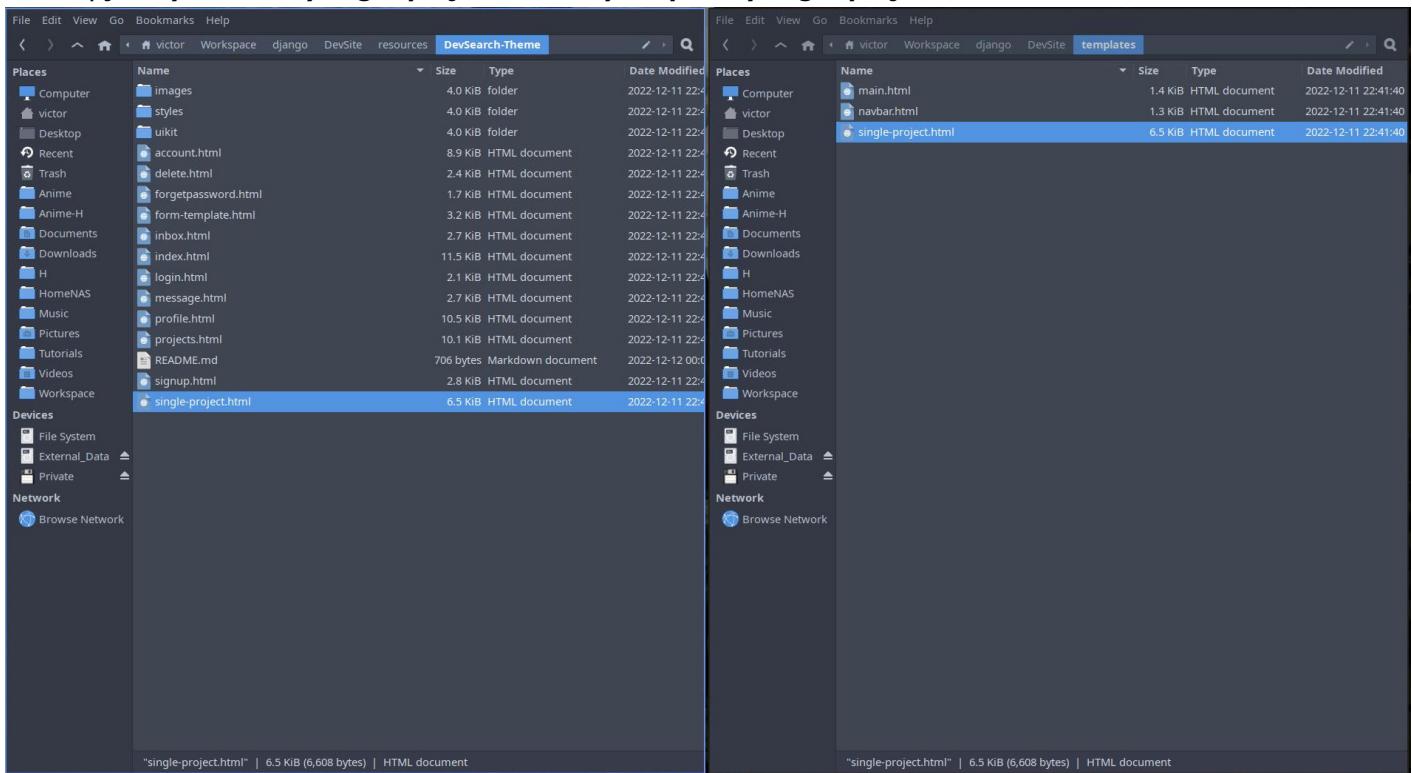
Styling The Single Project Page

Up to here, we had stylized the projects page but we also want to stylize the individual project page. The procedure is quite similar to the previous steps we've taken.

We no longer the /templates/projects.html that moved from the resources folder, but be careful **do not delete the /projects/templates/projects/projects.html** file that we just modified.



and copy the `/resources/single-project.html` to `/templates/single-project.html`:



If you open the page in your browser you should see a static page like this:

The screenshot shows a static landing page for a developer named Dennis Ivanov. At the top left, there's a section titled "TOOLS & STACKS" with a grid of buttons for Figma, React JS, REST API, GraphQL, TypeScript, Webpack, NextJS, Postgres, and MongoDB. Below this is a "Source Code" link. The main content area features a circular profile picture of a man with a beard and a blue cap, followed by the name "Dennis Ivanov" in large white font, "FullStack Developer" in a smaller white font, and the tagline "I teach people how to code and build cool things" in a very small white font. At the bottom of the main content, it says "Md. Shahriar Parvez" and "Portfolio Landing Page for a Coding Mentor". Below the main content, there's a "ABOUT THE PROJECT" section with two paragraphs of placeholder text (Lorem ipsum) and a "Feedback" section with a comment form.

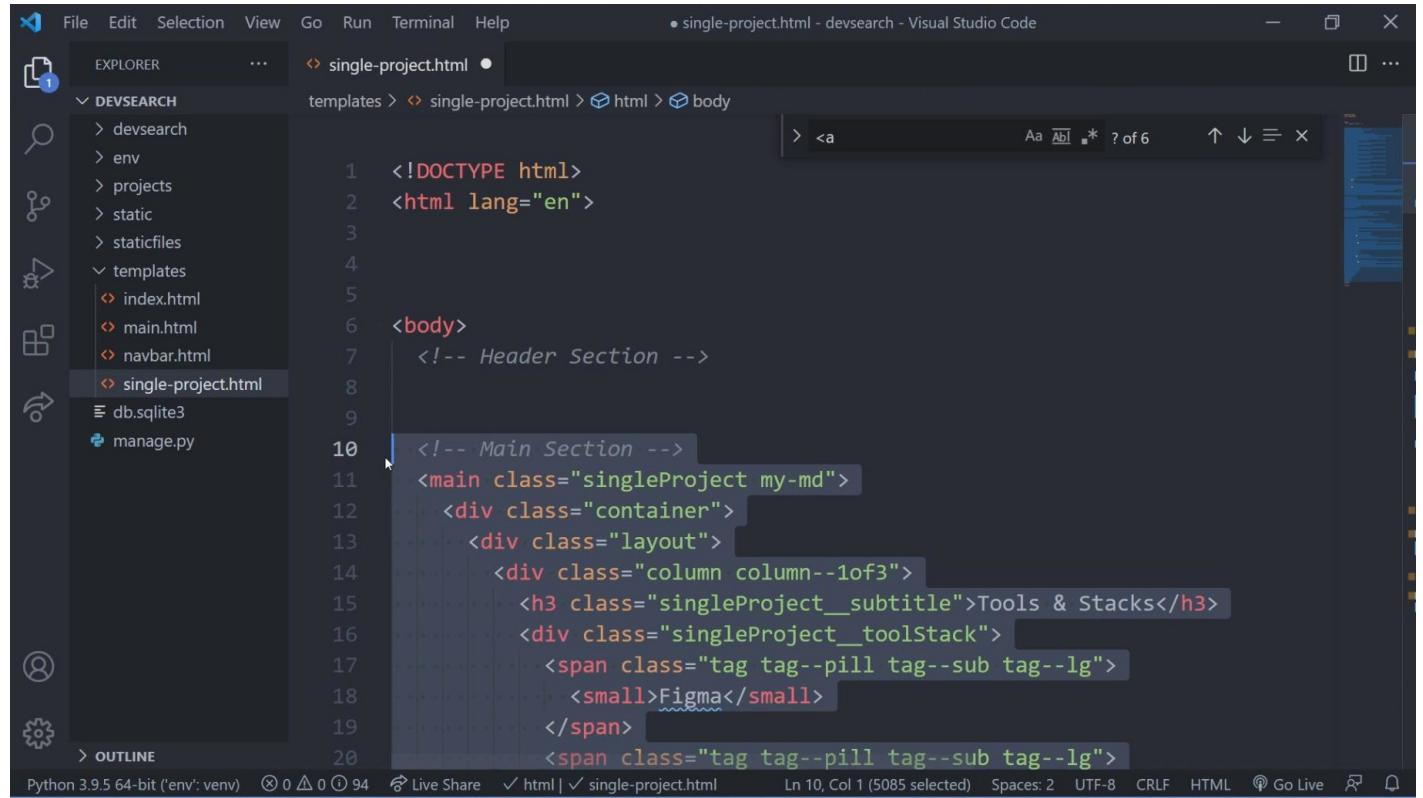
It's probable that if you open the static page from your destiny directory **/templates/single-project.html** you may see something like this:

The screenshot shows the same landing page structure but with missing resources. The "Source Code" link is present but the URL is broken. The "Feedback" section shows a comment form where the "Comments" button is disabled. The "About the Project" section contains two paragraphs of placeholder text. The "Feedback" section also contains two paragraphs of placeholder text. The "Feedback" section has a heading "36% Positive Feedback (18 Votes)" and a comment input field with placeholder text "Write your comments here...". Below the input field is a "Comments" button. The "About the Project" section has a heading "About the Project" and two paragraphs of placeholder text. The "Feedback" section has a heading "Feedback" and two paragraphs of placeholder text.

Do not fret, this is just because the page doesn't have access to all the static resources that are set up for the **/projects/templates/projects/single-project.html** that we're modifying next.

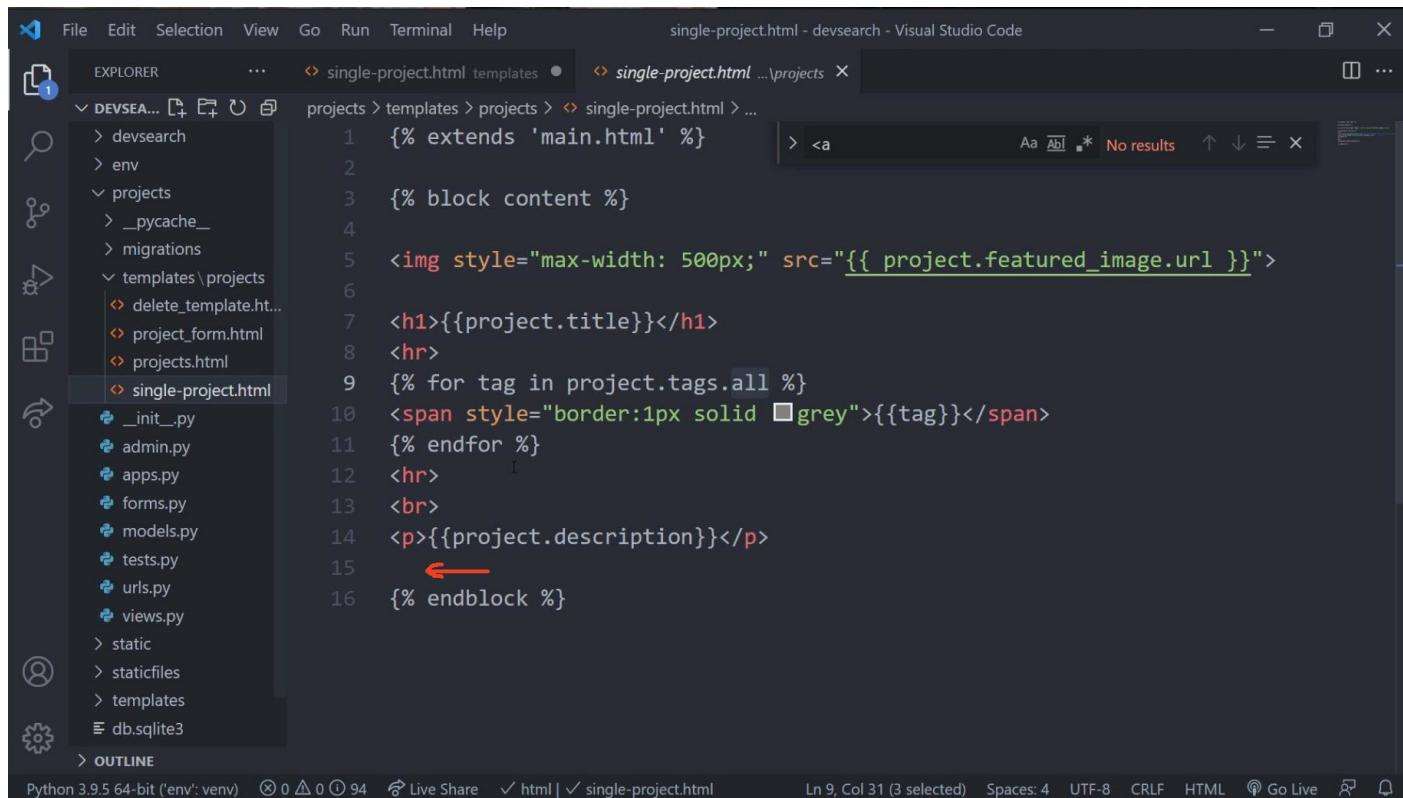
Similarly to what we did with the "projects.html" template, we'll be modifying our **/projects/templates/projects/single-project.html** template.

Open up **/templates/single-project.html**, the file we just copied, and copy the "Main" section, from `<main class="...>` to its closing tag `</main>`:



```
File Edit Selection View Go Run Terminal Help
single-project.html - devsearch - Visual Studio Code
EXPLORER ... templates > single-project.html > html > body
DESEARCH devsearch env projects static staticfiles templates index.html main.html navbar.html single-project.html db.sqlite3 manage.py
Aa AB? ? of 6 ↑ ↓ = X
<!DOCTYPE html>
<html lang="en">
<body>
<!-- Header Section -->
<!-- Main Section -->
<main class="singleProject my-md">
<div class="container">
<div class="layout">
<div class="column column--1of3">
<h3 class="singleProject__subtitle">Tools & Stacks</h3>
<div class="singleProject__toolStack">
<span class="tag tag--pill tag--sub tag--lg">
<small>Figma</small>
</span>
<span class="tag tag--pill tag--sub tag--lg">
```

and paste it on **/projects/templates/projects/single-project.html**, just underneath the `project.description` variable:



```

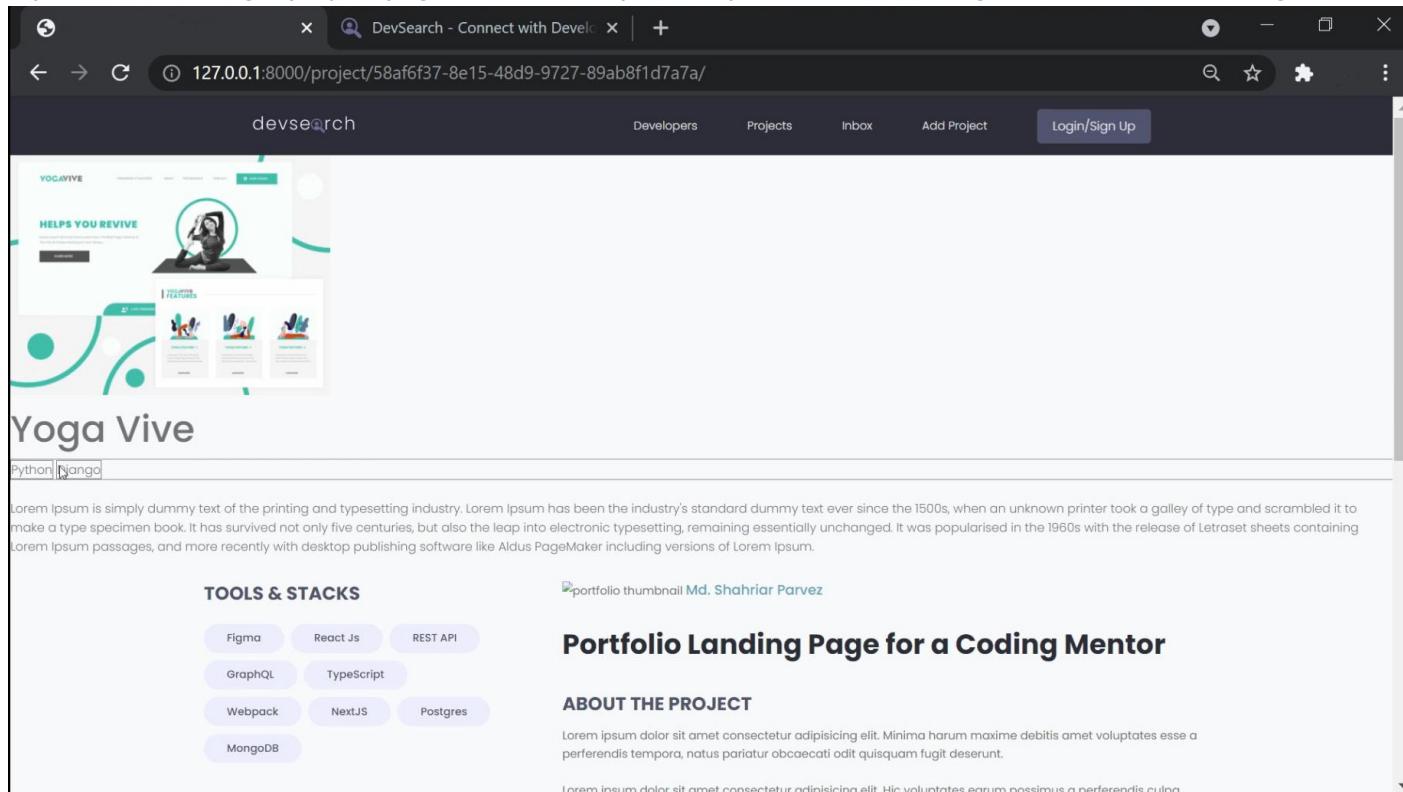
File Edit Selection View Go Run Terminal Help
single-project.html - devsearch - Visual Studio Code
EXPLORER ... single-project.html templates ● single-project.html ...\\projects ...
projects > templates > projects > single-project.html > ...
1  {% extends 'main.html' %} > <a
2
3  {% block content %}
4
5  {{tag}}</span>
11 {% endfor %}
12 <hr>
13 <br>
14 <p>{{project.description}}</p>
15 <!-- Red arrow points here -->
16  {% endblock %}

```

Python 3.9.5 64-bit ('env': venv) ① 0 △ 0 ① 94 🔍 Live Share ✓ html | ✓ single-project.html Ln 9, Col 31 (3 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

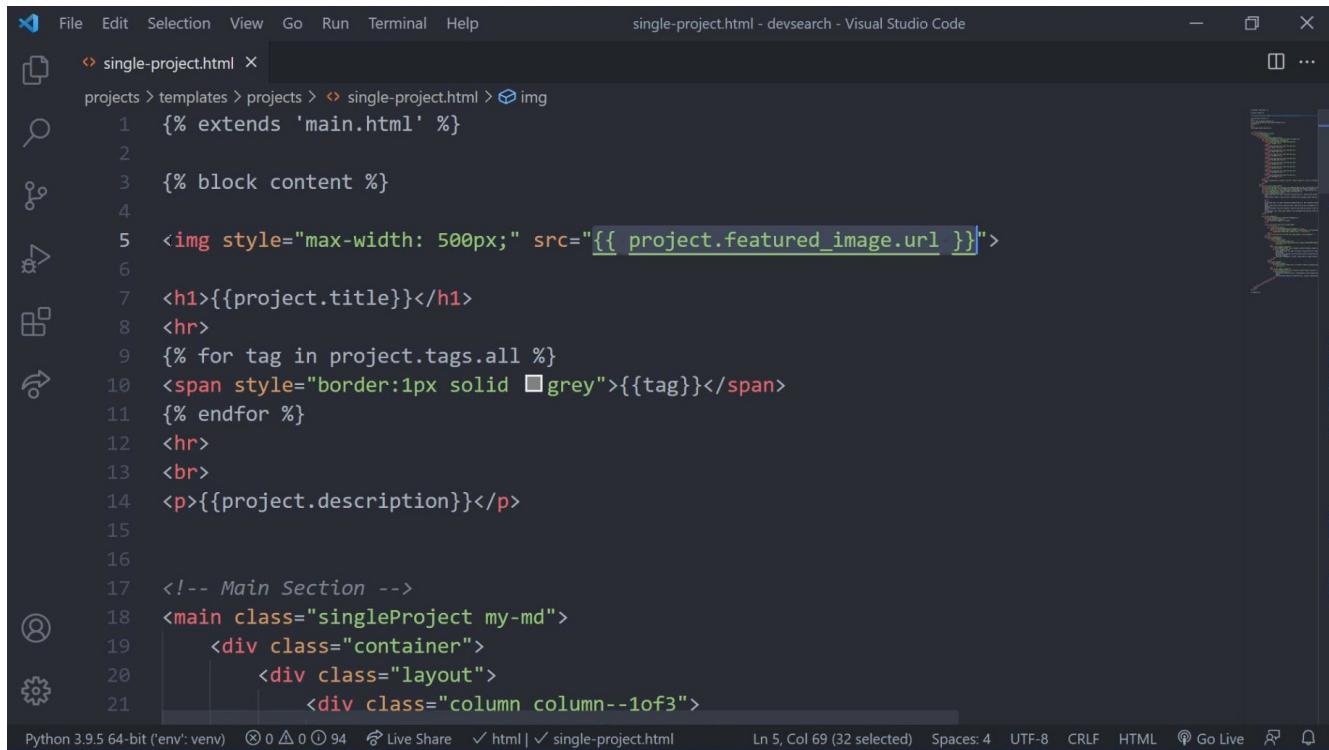
and delete the file **/templates/single-project.html** since it's no longer needed and to avoid confusions.

If you refresh a single project page in the develop server you'll see something similar to the following:



where we are going to be changing from static information to dynamic information from our database: the title, the tags, voting status, voting ratio and the project description.

- First find the image variable in our single-project.html template and place it in the corresponding variable for the static page:

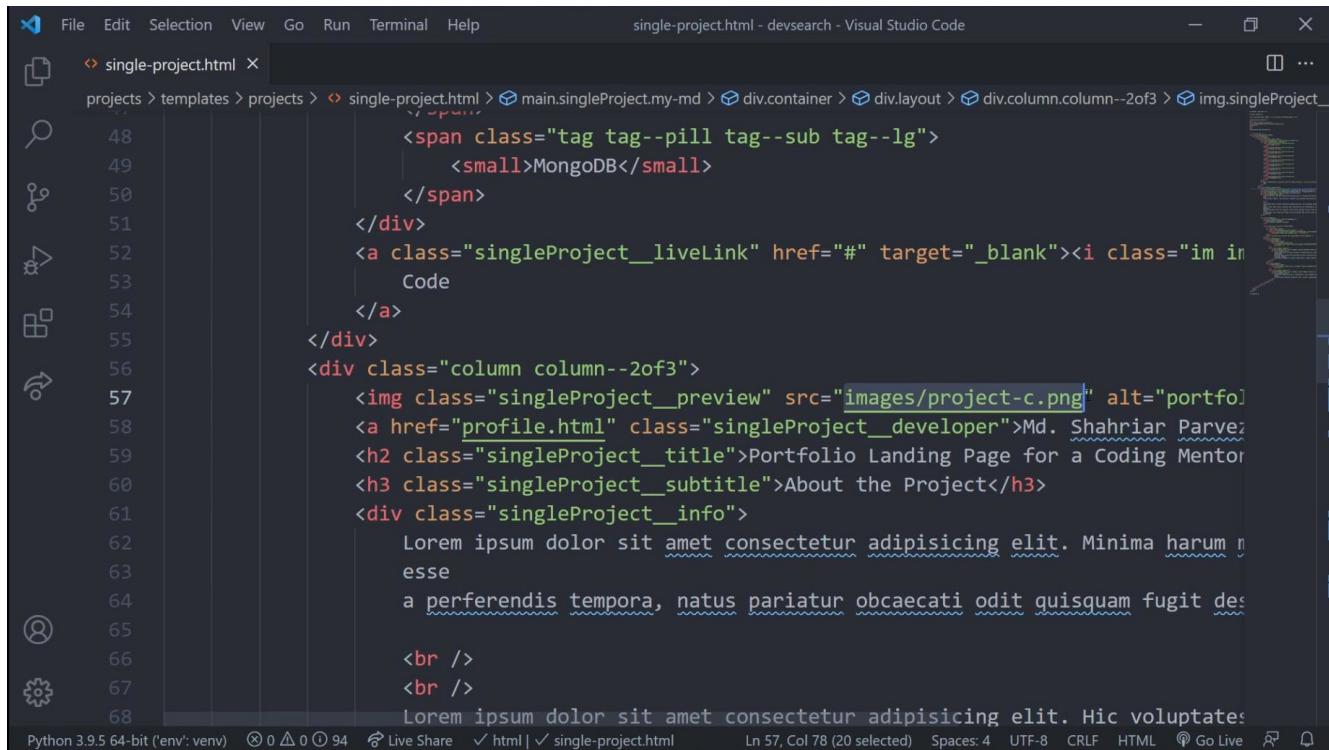


```

File Edit Selection View Go Run Terminal Help
single-project.html - devsearch - Visual Studio Code
single-project.html ×
projects > templates > projects > single-project.html > img
1  {% extends 'main.html' %} 
2
3  {% block content %} 
4
5  
6
7  <h1>{{project.title}}</h1>
8  <hr>
9  {% for tag in project.tags.all %}<br>
10 <span style="border:1px solid grey">{{tag}}</span>
11 {% endfor %}
12 <hr>
13 <br>
14 <p>{{project.description}}</p>
15
16
17 <!-- Main Section -->
18 <main class="singleProject my-md">
19   <div class="container">
20     <div class="layout">
21       <div class="column column--1of3">
Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 ⏴ 94 🔍 Live Share ✓ html | ✓ single-project.html Ln 5, Col 69 (32 selected) Spaces: 4 UTF-8 CRLF HTML ⌂ Go Live ⌂

```

to

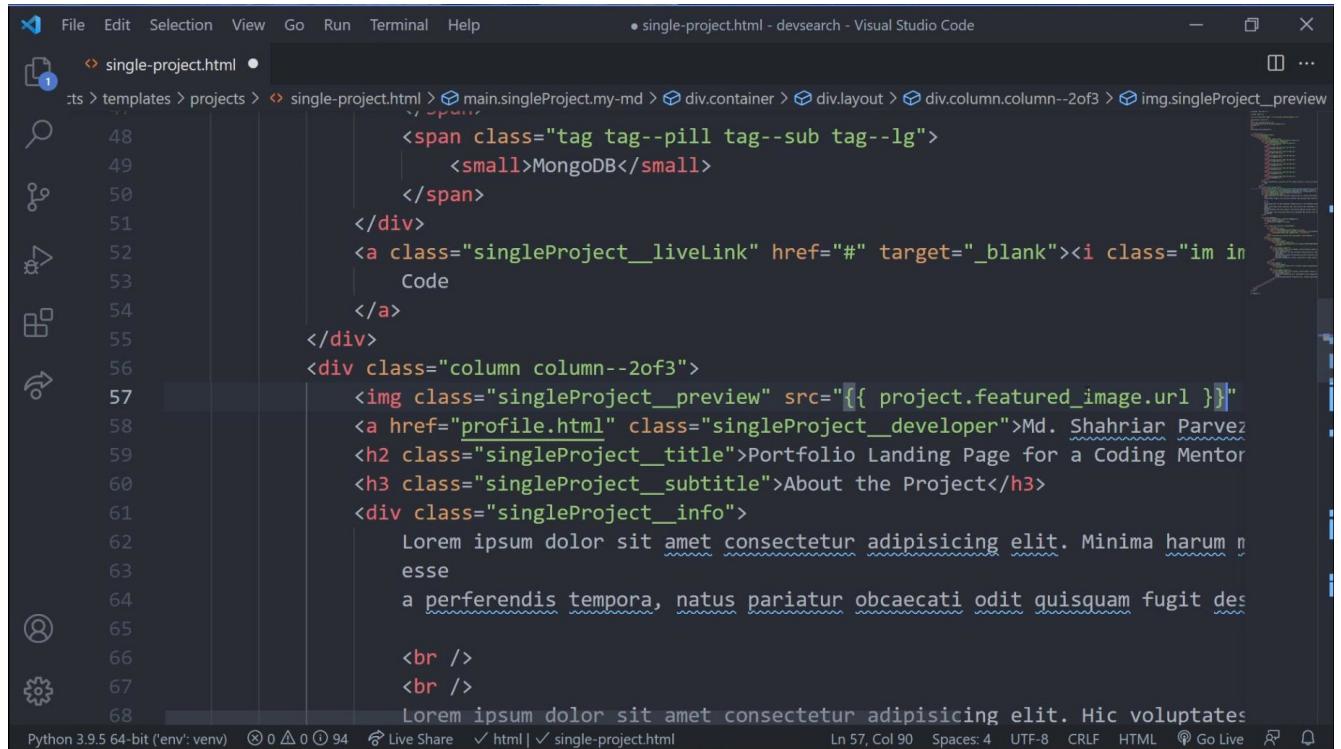


```

File Edit Selection View Go Run Terminal Help
single-project.html - devsearch - Visual Studio Code
single-project.html ×
projects > templates > projects > single-project.html > main.singleProject.my-md > div.container > div.layout > div.column.column--2of3 > img.singleProject
48           <span class="tag tag--pill tag--sub tag--lg">
49             <small>MongoDB</small>
50           </span>
51         </div>
52         <a class="singleProject__liveLink" href="#" target="_blank"><i class="im im
53           Code
54         </a>
55       </div>
56       <div class="column column--2of3">
57         Md. Shahriar Parvez
59         <h2 class="singleProject__title">Portfolio Landing Page for a Coding Mentor
60         <h3 class="singleProject__subtitle">About the Project</h3>
61         <div class="singleProject__info">
62           Lorem ipsum dolor sit amet consectetur adipisicing elit. Minima harum n
63           esse
64           a perferendis tempora, natus pariatur obcaecati odit quisquam fugit des
65
66           <br />
67           <br />
68           Lorem ipsum dolor sit amet consectetur adipisicing elit. Hic voluptates
Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 ⏴ 94 🔍 Live Share ✓ html | ✓ single-project.html Ln 57, Col 78 (20 selected) Spaces: 4 UTF-8 CRLF HTML ⌂ Go Live ⌂

```

SO



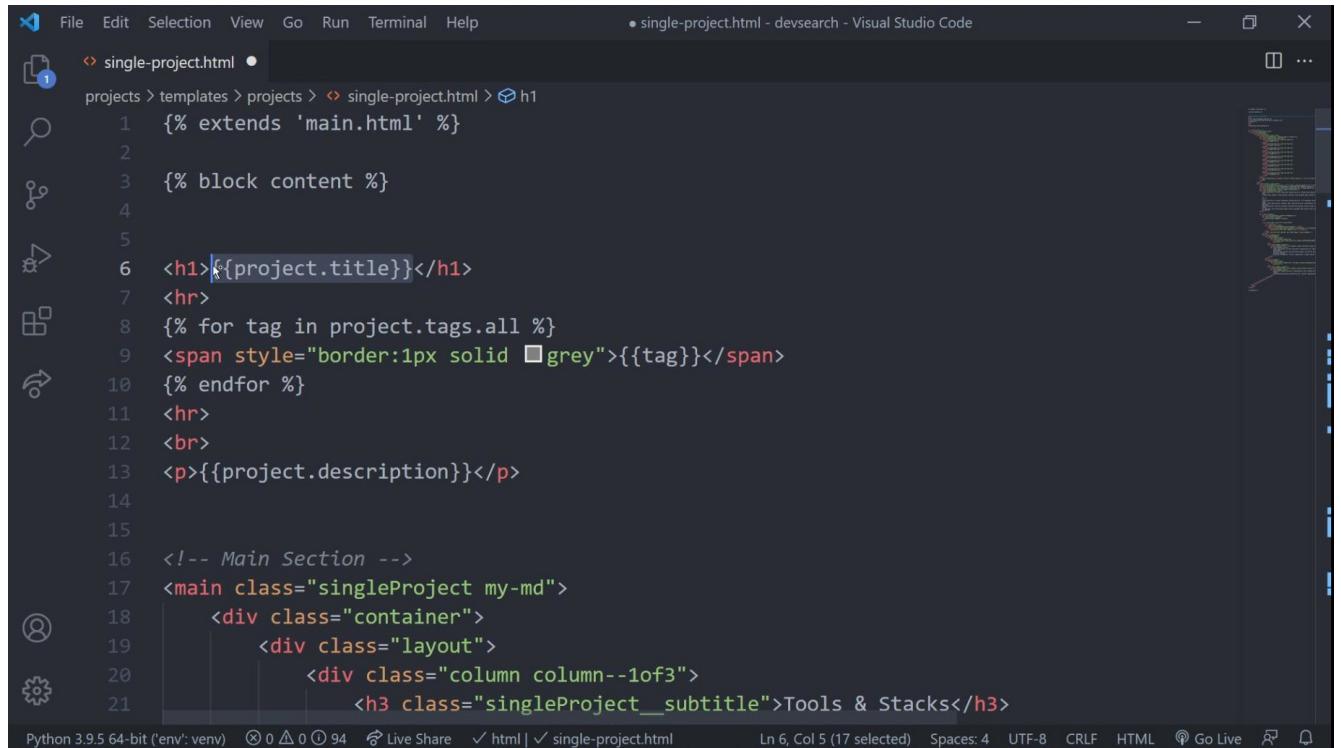
```

48 <span class="tag tag--pill tag--sub tag--lg">
49   <small>MongoDB</small>
50 </span>
51 </div>
52 <a class="singleProject__liveLink" href="#" target="_blank"><i class="im in
53   Code
54 </a>
55 </div>
56 <div class="column column--2of3">
57   Md. Shahriar Parvez
59   <h2 class="singleProject__title">Portfolio Landing Page for a Coding Mentor
60   <h3 class="singleProject__subtitle">About the Project</h3>
61   <div class="singleProject__info">
62     Lorem ipsum dolor sit amet consectetur adipisicing elit. Minima harum m
63     esse
64     a perferendis tempora, natus pariatur obcaecati odit quisquam fugit des
65   <br />
66   <br />
67   <br />
68   <br />
69   <br />
70   <br />
71   <br />
72   <br />
73   <br />
74   <br />
75   <br />
76   <br />
77   <br />
78   <br />
79   <br />
80   <br />
81   <br />
82   <br />
83   <br />
84   <br />
85   <br />
86   <br />
87   <br />
88   <br />
89   <br />
90   <br />
91   <br />
92   <br />
93   <br />
94   <br />

```

Python 3.9.5 64-bit ('env': venv) 0 △ 0 ① 94 🔍 Live Share ✓ html | ✓ single-project.html Ln 57, Col 90 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⌂

- Second, move the title variable:



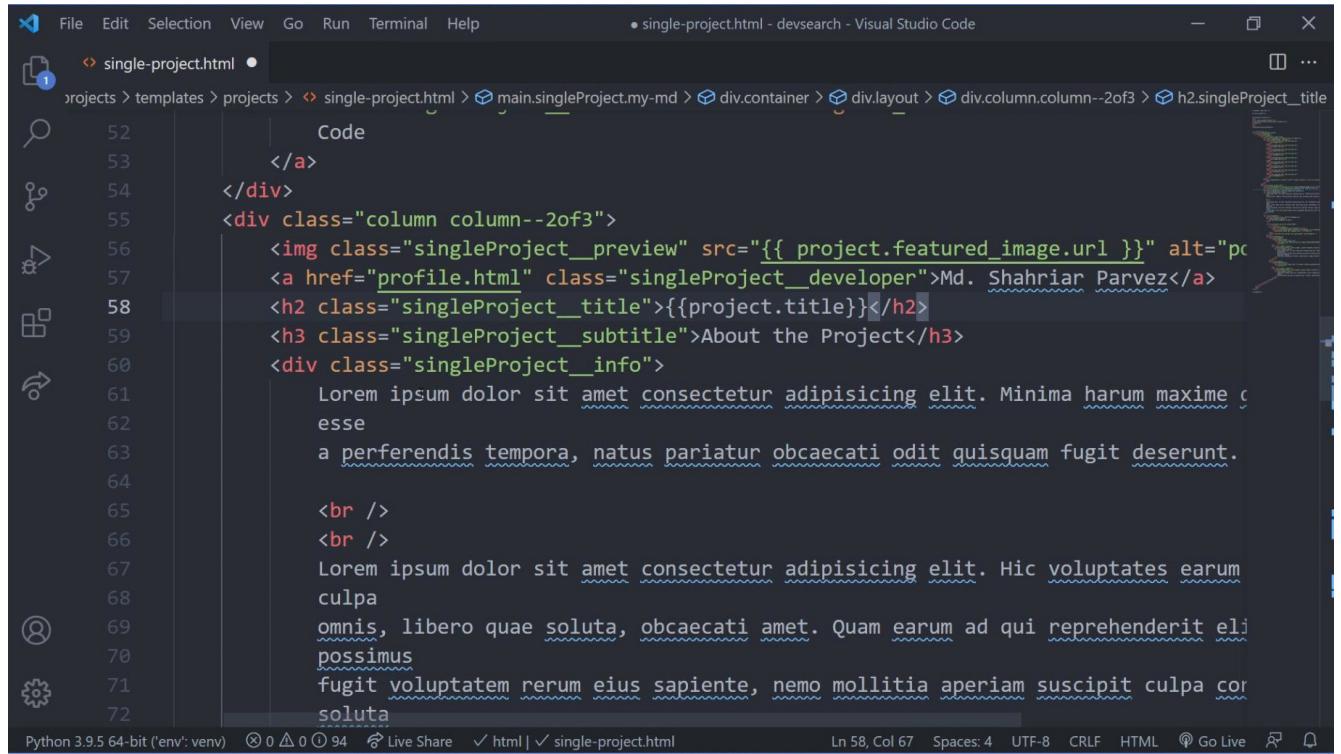
```

1  {% extends 'main.html' %}
2
3  {% block content %}
4
5
6  <h1>{{project.title}}</h1>
7  <hr>
8  {% for tag in project.tags.all %}
9  <span style="border:1px solid grey">{{tag}}</span>
10 {% endfor %}
11 <hr>
12 <br>
13 <p>{{project.description}}</p>
14
15
16 <!-- Main Section -->
17 <main class="singleProject my-md">
18   <div class="container">
19     <div class="layout">
20       <div class="column column--1of3">
21         <h3 class="singleProject__subtitle">Tools & Stacks</h3>

```

Python 3.9.5 64-bit ('env': venv) 0 △ 0 ① 94 🔍 Live Share ✓ html | ✓ single-project.html Ln 6, Col 5 (17 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⌂

into

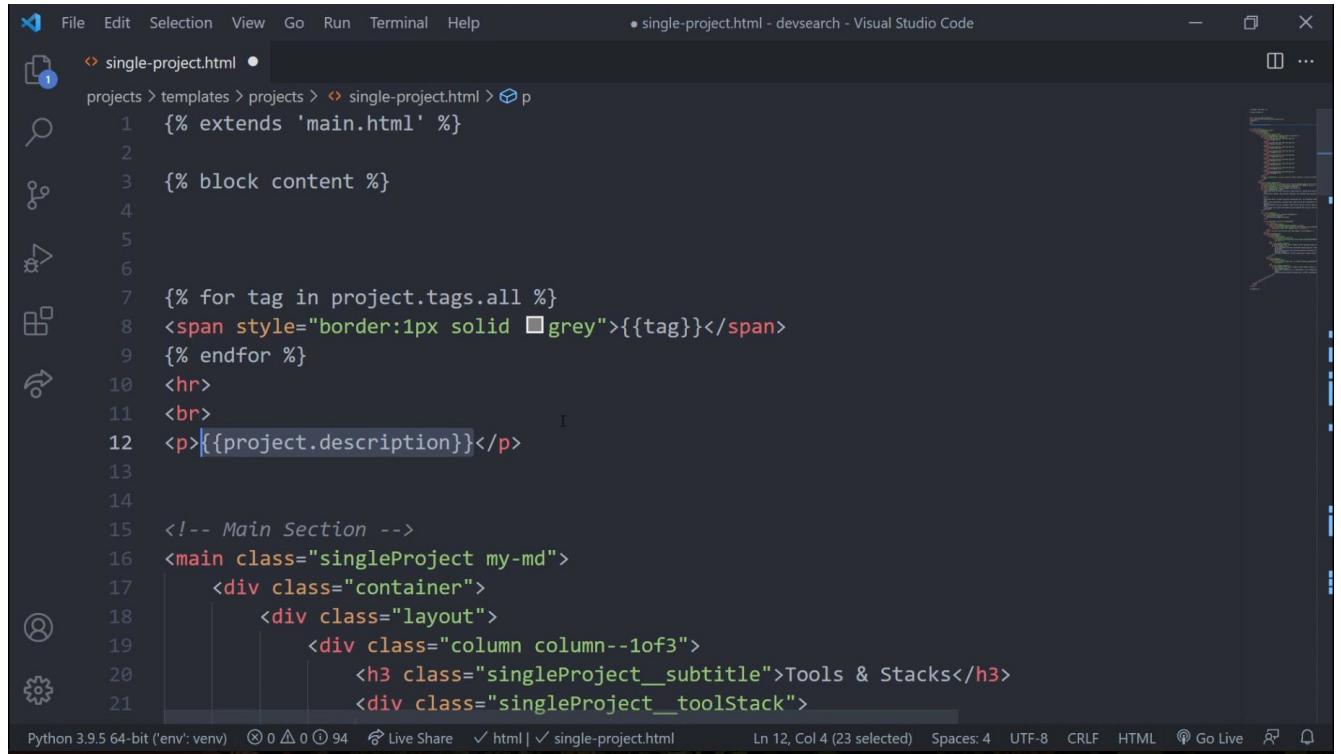


```

File Edit Selection View Go Run Terminal Help
• single-project.html - devsearch - Visual Studio Code
projects > templates > projects > single-project.html > main.singleProject.my-md > div.container > div.layout > div.column.column--2of3 > h2.singleProject_title
Code
52     </a>
53   </div>
54   <div class="column column--2of3">
55     Md. Shahriar Parvez</a>
57     <h2 class="singleProject_title">{{project.title}}</h2>
58     <h3 class="singleProject_subtitle">About the Project</h3>
59     <div class="singleProject_info">
60       Lorem ipsum dolor sit amet consectetur adipisicing elit. Minima harum maxime c
61       esse
62       a perferendis tempora, natus pariatur obcaecati odit quisquam fugit deserunt.
63
64       <br />
65       <br />
66       Lorem ipsum dolor sit amet consectetur adipisicing elit. Hic voluptates earum
67       culpa
68       omnis, libero quae soluta, obcaecati amet. Quam earum ad qui reprehenderit eli
69       possimus
70       fugit voluptatem rerum eius sapiente, nemo mollitia aperiam suscipit culpa cor
71       soluta
72
Python 3.9.5 64-bit ('env': venv) 0 0 0 94 Live Share html | single-project.html
Ln 58, Col 67 Spaces: 4 UTF-8 CRLF HTML Go Live

```

- Third, the description variable:

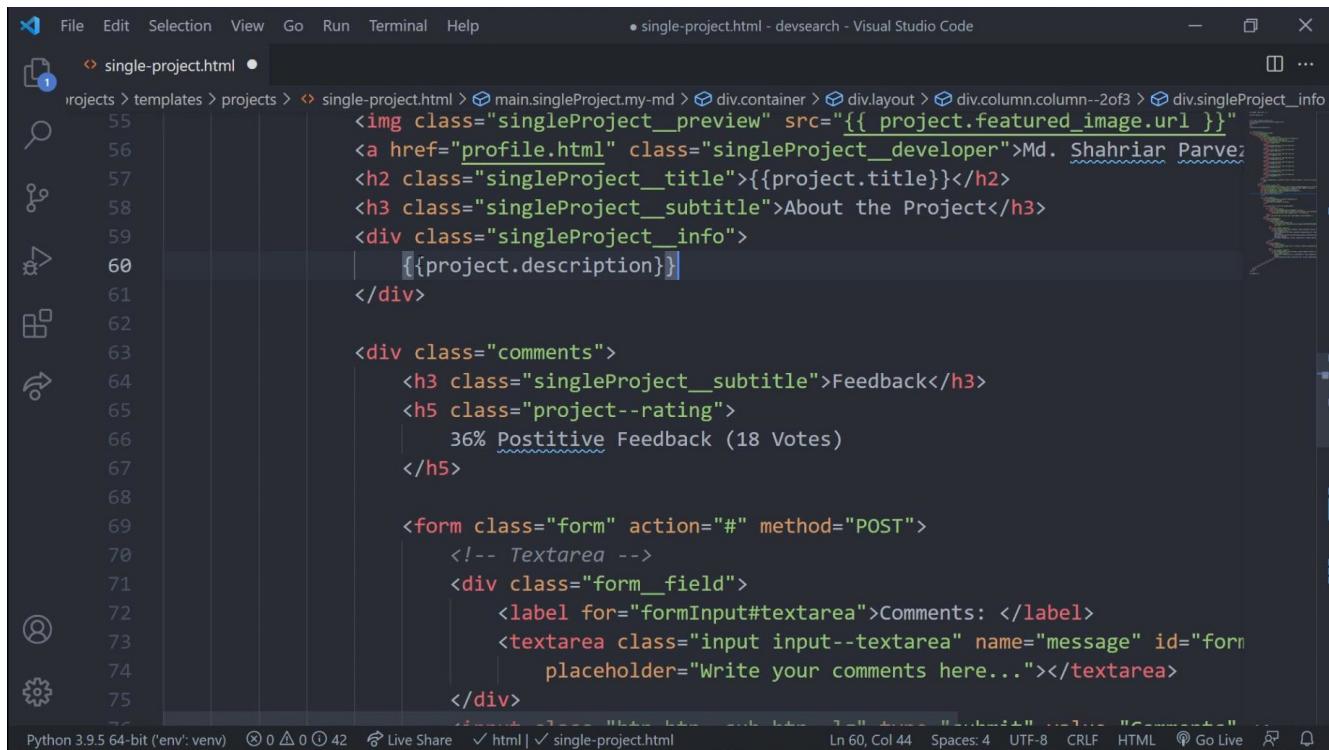


```

File Edit Selection View Go Run Terminal Help
• single-project.html - devsearch - Visual Studio Code
projects > templates > projects > single-project.html > p
1  {% extends 'main.html' %}
2
3  {% block content %}
4
5
6
7  {% for tag in project.tags.all %}
8  <span style="border:1px solid grey">{{tag}}</span>
9  {% endfor %}
10 <hr>
11 <br>
12 <p>{{project.description}}</p>
13
14
15 <!-- Main Section -->
16 <main class="singleProject my-md">
17   <div class="container">
18     <div class="layout">
19       <div class="column column--1of3">
20         <h3 class="singleProject_subtitle">Tools & Stacks</h3>
21         <div class="singleProject_toolStack">
Python 3.9.5 64-bit ('env': venv) 0 0 0 94 Live Share html | single-project.html
Ln 12, Col 4 (23 selected) Spaces: 4 UTF-8 CRLF HTML Go Live

```

to

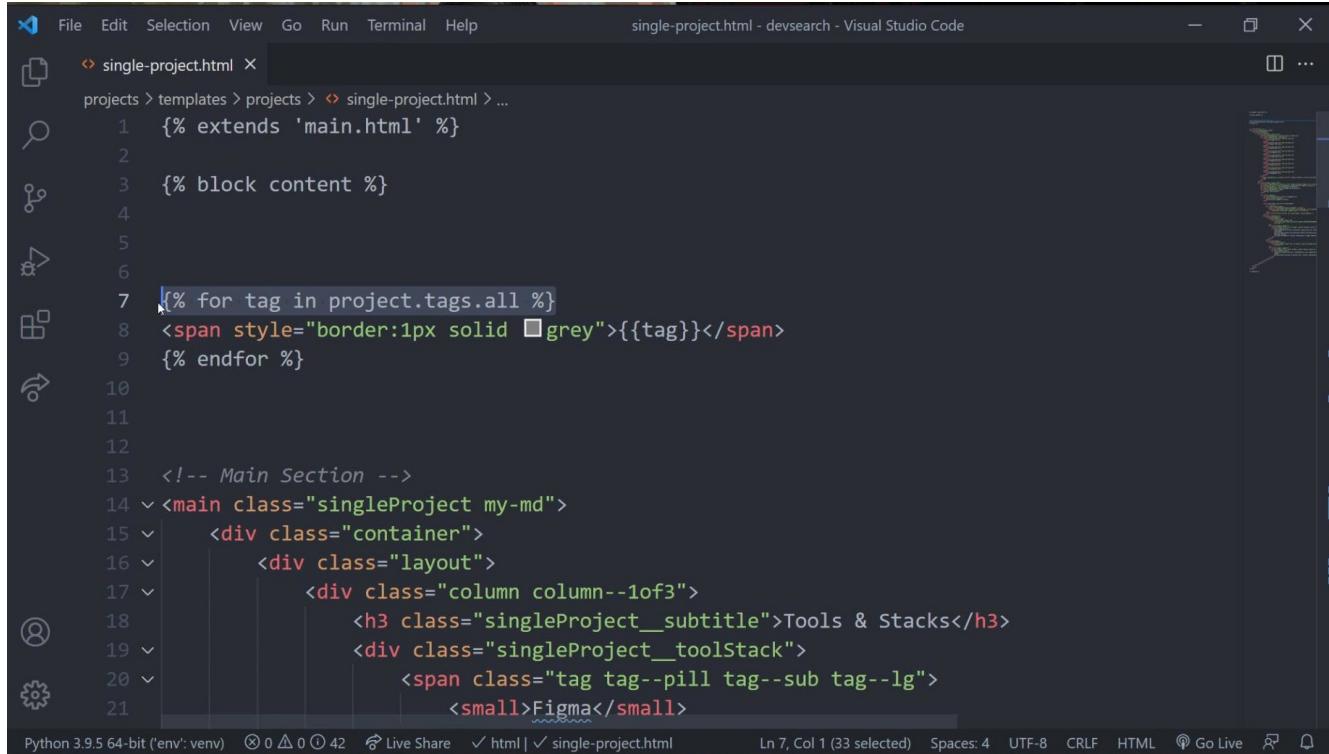


```

55 
56 <a href="profile.html" class="singleProject_developer">Md. Shahriar Parvez</a>
57 <h2 class="singleProject_title">{{project.title}}</h2>
58 <h3 class="singleProject_subtitle">About the Project</h3>
59 <div class="singleProject_info">
60   {{project.description}}
61 </div>
62
63 <div class="comments">
64   <h3 class="singleProject_subtitle">Feedback</h3>
65   <h5 class="project--rating">
66     36% Positive Feedback (18 Votes)
67   </h5>
68
69   <form class="form" action="#" method="POST">
70     <!-- Textarea -->
71     <div class="form__field">
72       <label for="formInput#textarea">Comments: </label>
73       <textarea class="input input--textarea" name="message" id="formInput" placeholder="Write your comments here..."></textarea>
74     </div>
75

```

- Fourth, move the tag information:

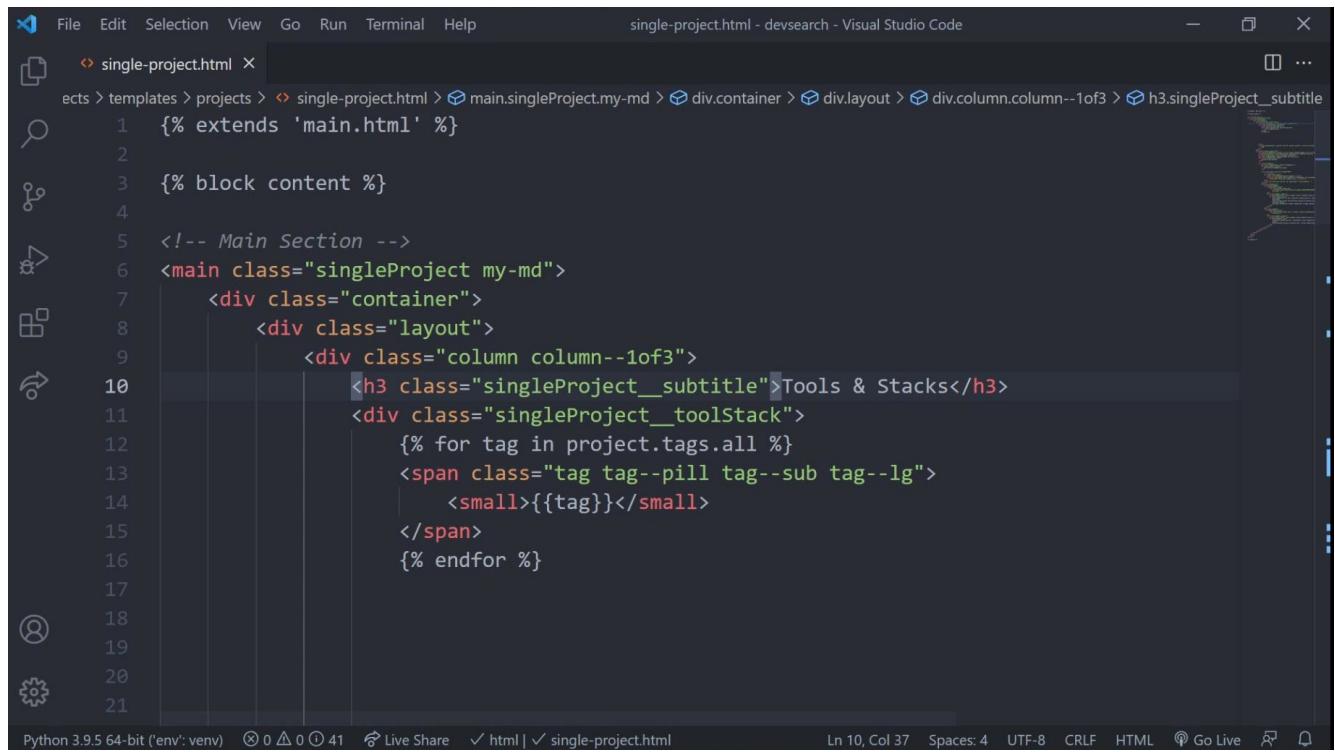


```

1  {% extends 'main.html' %}
2
3  {% block content %}
4
5
6
7  {% for tag in project.tags.all %}
8    <span style="border:1px solid grey">{{tag}}</span>
9  {% endfor %}
10
11
12
13  <!-- Main Section -->
14  <main class="singleProject my-md">
15    <div class="container">
16      <div class="layout">
17        <div class="column column--1of3">
18          <h3 class="singleProject_subtitle">Tools & Stacks</h3>
19          <div class="singleProject_toolStack">
20            <span class="tag tag--pill tag--sub tag--lg">
21              <small>Figma</small>

```

to



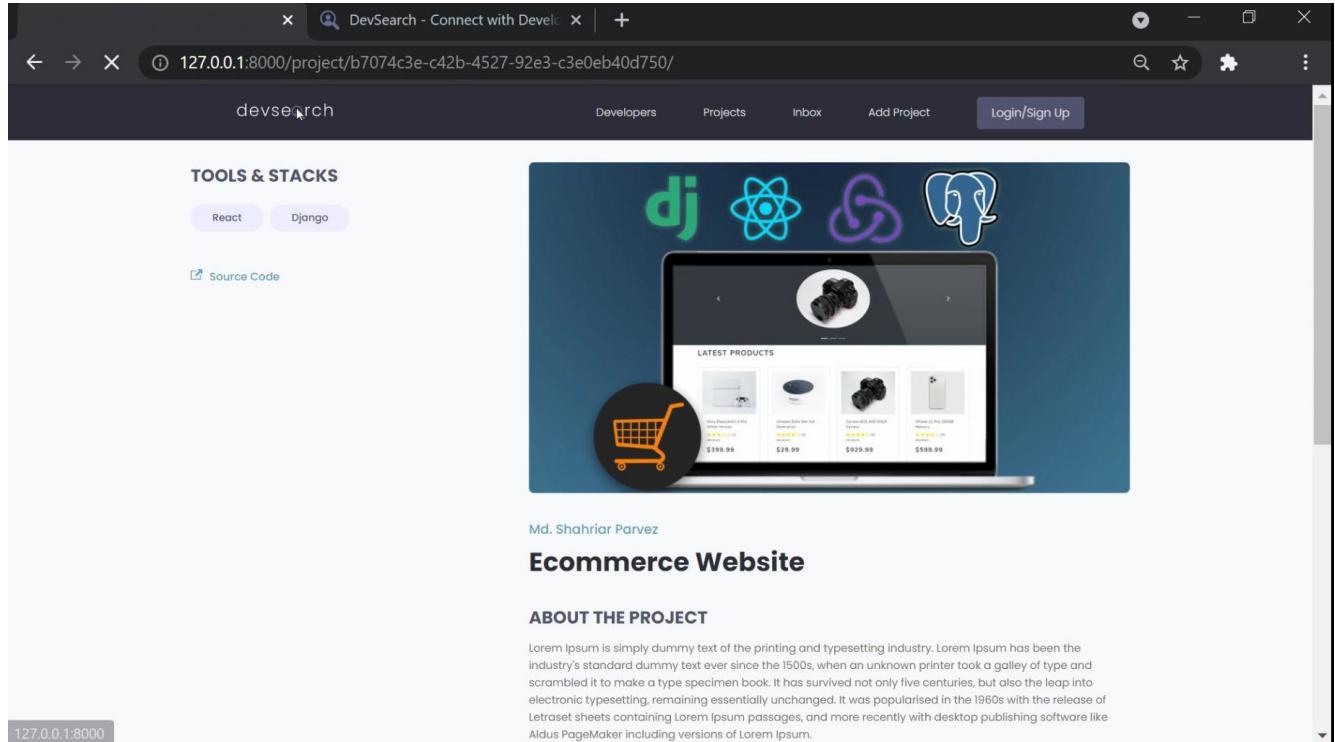
```

File Edit Selection View Go Run Terminal Help
single-project.html - devsearch - Visual Studio Code
single-project.html > templates > projects > single-project.html > main.singleProject.my-md > div.container > div.layout > div.column.column--1of3 > h3.singleProject_subtitle
1  {% extends 'main.html' %} 
2
3  {% block content %} 
4
5  <!-- Main Section -->
6  <main class="singleProject my-md">
7      <div class="container">
8          <div class="layout">
9              <div class="column column--1of3">
10             <h3 class="singleProject_subtitle">Tools & Stacks</h3>
11             <div class="singleProject_toolStack">
12                 {% for tag in project.tags.all %}
13                     <span class="tag tag--pill tag--sub tag--lg">
14                         <small>{{tag}}</small>
15                     </span>
16                 {% endfor %}
17
18
19
20
21
Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 ① 41 Live Share ✓ html | ✓ single-project.html Ln 10, Col 37 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

```

- Fifth, we remove all the information from the initial single-project.html template which we started off.

Now if we refresh an individual project's page we should see:



Try it by moving around from the projects' page to each individual project's page.

- Sixth, we should update the source code and live demo links code only if the individual link exists. Find the following code:

```
<a class="singleProject__liveLink" href="#" target="_blank"><i
class="im im-external-link"></i>Source Code</a>
```

this is the reference to the source code link. We will modify to set the dynamic variable:

```
{% if project.source_link %}
<a class="singleProject__liveLink" href="#" target="_blank"><i
class="im im-external-link"></i>Source Code</a>
{% endif %}
```

And we'll do the same for the Demo link as well:

```
{% if project.demo_link %}
<a class="singleProject__liveLink" href="#" target="_blank"><i
class="im im-external-link"></i>Demo Link</a>
{% endif %}
```

Here, we don't use the variables {{project.source_link}} and {{project.demo_link}} in the text of the link because we only need to modify the hyperreference and not the text. We want to show in both links their original texts: "Source Code" and "Demo Link"

```
File Edit Selection View Go Run Terminal Help • single-project.html - devsearch - Visual Studio Code
EXPLORER ... single-project.html ● models.py
DEVSEARCH projects > templates > projects > single-project.html > main.singleProject.my-md > div.container > div.layout > div.column.column--1of3
12
13
14
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19
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23
24
25
26
27
28
29
30
31
32
```

```

    <% for tag in project.tags.all %>
        <span class="tag tag--pill tag--sub tag--lg">
            <small>{{tag}}</small>
        </span>
    <% endfor %>

</div>

    <% if project.source_link %>
        <a class="singleProject__liveLink" href="#" target="_blank"><i class="im im-external-link"></i>Source Code</a>
    <% endif %>

    <% if project.demo_link %>
        <a class="singleProject__liveLink" href="#" target="_blank"><i class="im im-external-link"></i>Demo Link</a>
    <% endif %>
</div>
```

OUTLINE

Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 ① 41 ⑨ Live Share ✓ html | ✓ single-project.html Ln 26, Col 42 (11 selected) Spaces: 4 UTF-8 CRLF HTML ⚙ Go Live ⚙

To test the links, go to the admin page and add a couple of links to a project to test both and their logical conditions. You should see somethin similar to this:

- Seventh, modify the vote section. Find the string "project--rating" and modify the code by adding the vote ratio and the total vote:

```

<h3 class="singleProject__subtitle">About the Project</h3>
<div class="singleProject__info">
  {{project.description}}
</div>

<div class="comments">
  <h3 class="singleProject__subtitle">Feedback</h3>
  <h5 class="project--rating">
    {{project.vote_ratio}}% Postitive Feedback ({{project.vote_total|pluralize:"s"}})
  </h5>

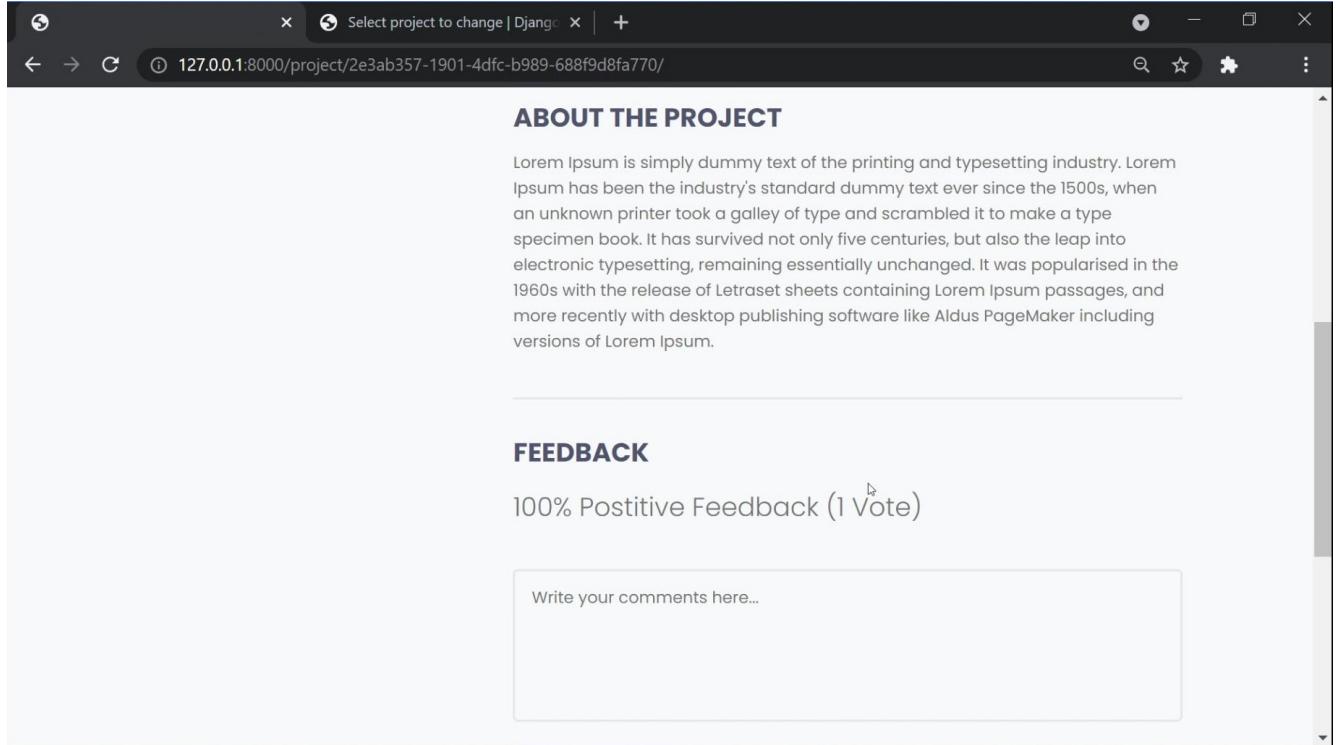
  <form class="form" action="#" method="POST">
    <!-- Textarea -->
    <div class="form__field">
      <label for="formInput#textarea">Comments: </label>
      <textarea class="input input--textarea" name="comment" placeholder="Write your comments here..."></textarea>
    </div>
    <input class="btn btn--sub btn--lg" type="submit" value="Post Comment" />
  </form>
</div>

```

The code should read:

```
<h5 class="project--rating">
    {{ project.vote_ratio }}% Positive Feedback ({{ project.vote_total
}} Vote{{ project.vote_total|pluralize:"s" }})
</h5>
```

To test, go to your project with a single vote and check the vote status on that page.



Styling The Add Project Form

Again, the procedure is similar to we have been doing with the styles for the projects and single project pages.

This is how the Add Project form should look like now:

The screenshot shows a web browser window with the URL `127.0.0.1:8000/create-project/`. The page title is "Project Form". It contains the following fields:

- Title:
- Featured image: Choose File No file chosen
- Description:
- Demo link:
- Source link:
- Tags:
- Submit

From the `/resources` folder copy the `form-template.html` file into the root `/templates` folder.

If you open the `/resources/form-template.html` file, you should see a form:

The screenshot shows a browser window displaying the `form-template.html` file from the `/resources` folder. The page has a light gray background with a central white form area. The form contains the following elements:

- A small blue circular icon.
- Text Field: Enter text
- Text Field: Enter text
- Text Field: Enter text
- Submit

And again, we're going to be applying the template to the form bit by bit as it has been the case for our previous templates.

In the `/templates/form-template.html` remove the `<head>...</head>` section and the `<navbar>...</navbar>` from the `<body>` section. They are unnecessary.

```

File Edit Selection View Go Run Terminal Help
• form-template.html - devsearch - Visual Studio Code
EXPLORER ... ◊ single-project.html ◊ form-template.html •
DEVSEARCH
templates > ◊ form-template.html > html > body > header.header > div.container.container--narrow > a.header__logo
1 <!DOCTYPE html>
2 <html lang="en">
3
4
5 <body>
6 <!-- Header Section -->
7 <header class="header">
8 <div class="container container--narrow">
9 <a href="/" class="header__logo">
10 
11 </a>
12 <nav class="header__nav">
13 <input type="checkbox" id="responsive-menu" />
14 <label for="responsive-menu" class="toggle-menu">
15 <span>Menu</span>
16 <div class="toggle-menu__lines"></div>
17 </label>
18 <ul class="header__menu">
19 <li class="header__menuItem"><a href="index.html">Develo...
20 <li class="header__menuItem"><a href="projects.html">Proj...
21 <li class="header__menuItem"><a href="inbox.html">Inbox...

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 41 🔍 Live Share ✓ html | ✓ form-template.html Ln 6, Col 1 (1129 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🔍

and copy all the content between the `<main>...</main>` tags:

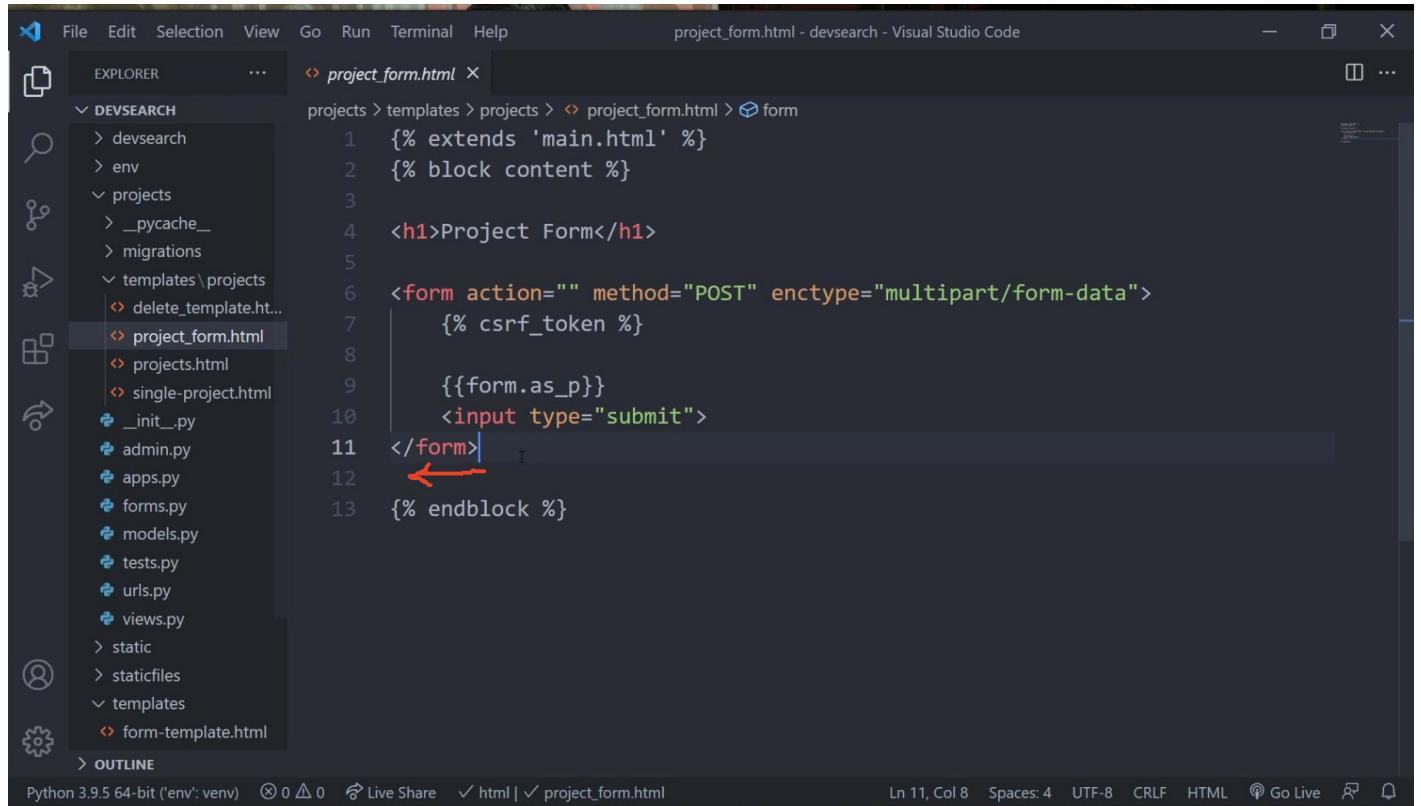
```

File Edit Selection View Go Run Terminal Help
• form-template.html - devsearch - Visual Studio Code
EXPLORER ... ◊ single-project.html ◊ form-template.html •
DEVSEARCH
templates > ◊ form-template.html > html > body > main.formPage.my-xl
8 <!-- Main Section -->
9 <main class="formPage my-xl">
10 <div class="content-box">
11 <div class="formWrapper">
12 <a class="backButton" href="#"><i class="im im-angle-left"><br>
13
14
15 <form class="form" method="POST">
16 <!-- Input:Text -->
17 <div class="form__field">
18 <label for="formInput#text">Text Field: </label>
19 <input class="input input--text" id="formInput#text" placeholder="Enter text" />
20 </div>
21
22
23 <!-- Input:Text -->
24 <div class="form__field">
25 <label for="formInput#text">Text Field: </label>
26 <input class="input input--text" id="formInput#text" placeholder="Enter text" />
27 </div>
28

```

Python 3.9.5 64-bit ('env': venv) ⚡ 0 ⚡ 0 ⚡ 41 🔍 Live Share ✓ html | ✓ form-template.html Ln 18, Col 31 (410 selected) Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live 🔍

to our form:



```

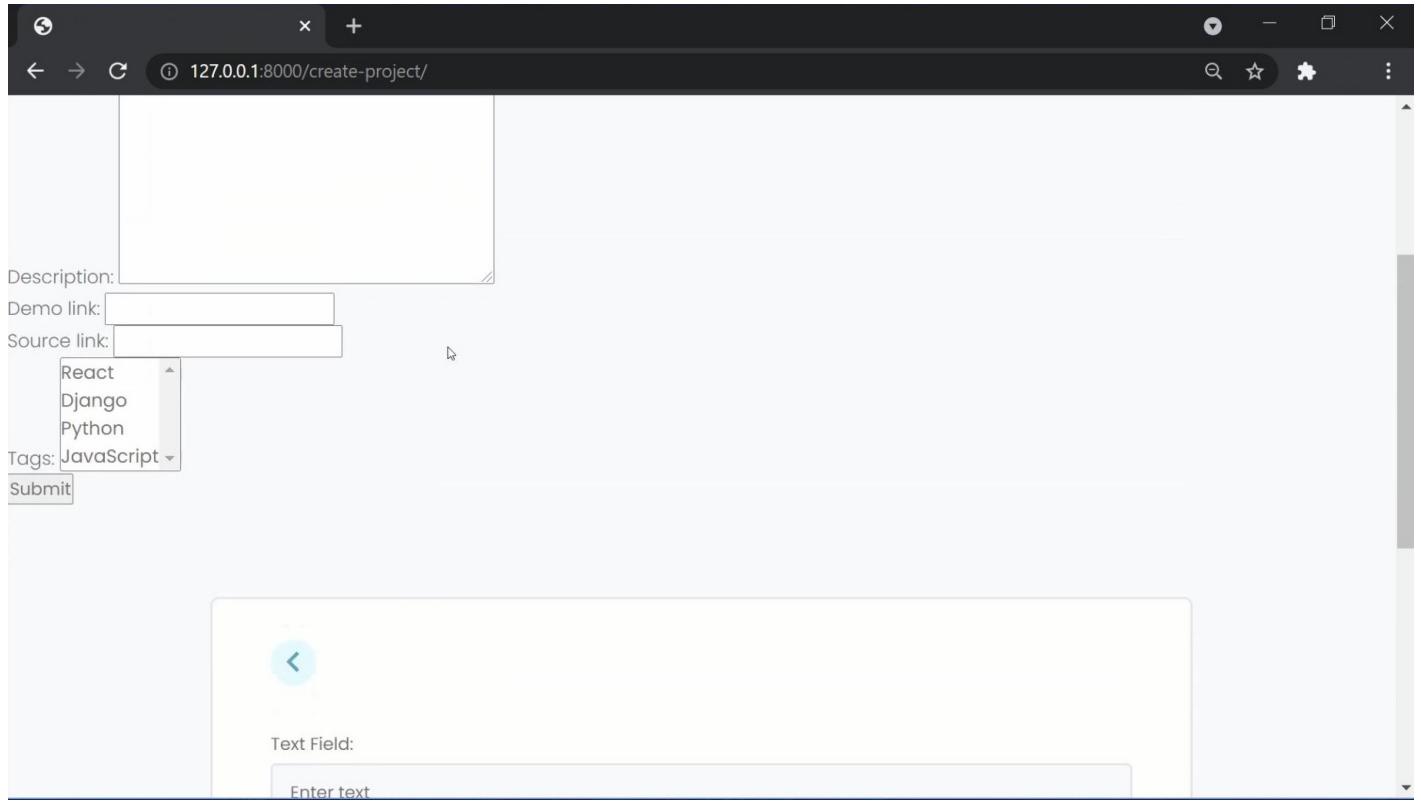
File Edit Selection View Go Run Terminal Help
project_form.html - devsearch - Visual Studio Code
EXPLORER ... project_form.html x
projects > templates > projects > project_form.html > form
1  {% extends 'main.html' %} 
2  {% block content %} 
3
4  <h1>Project Form</h1>
5
6  <form action="" method="POST" enctype="multipart/form-data">
7      {% csrf_token %} 
8
9      {{form.as_p}} 
10     <input type="submit">
11  </form> I
12
13  {% endblock %}

```

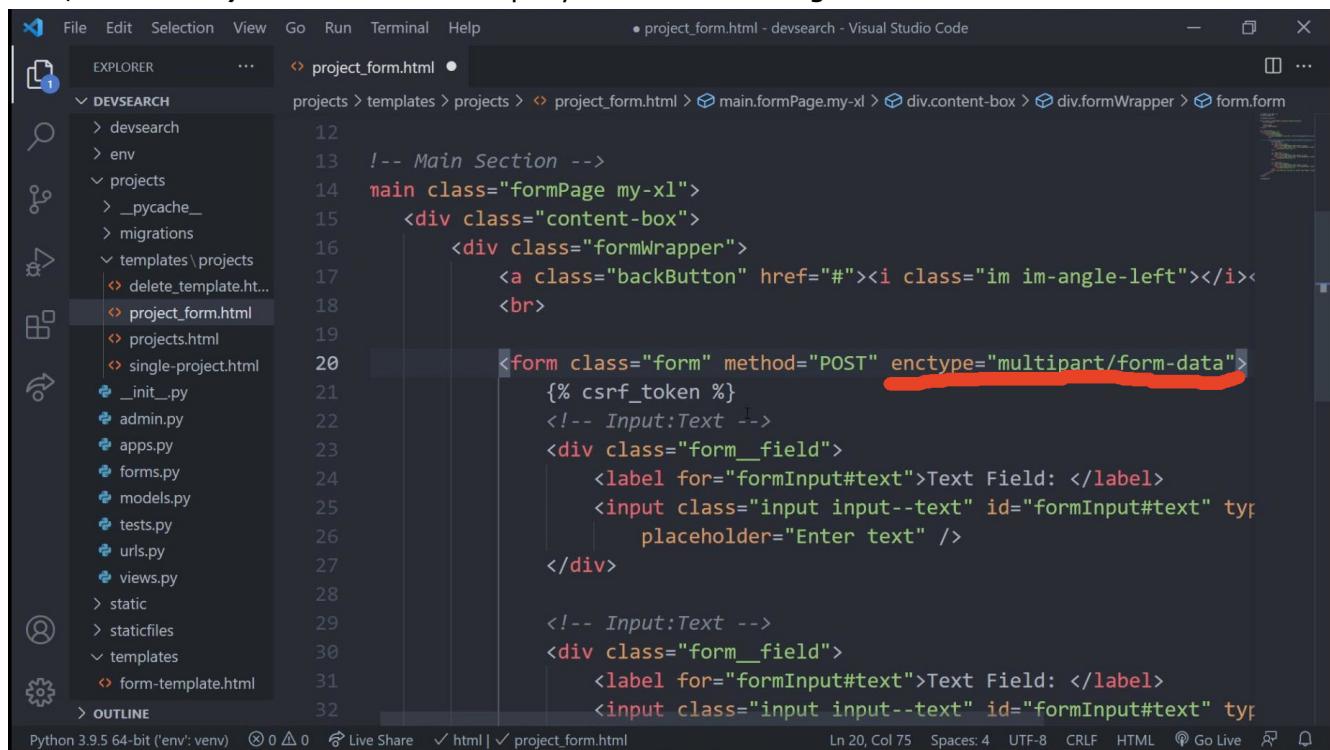
Python 3.9.5 64-bit ('env': venv) 0 △ 0 Live Share ✓ html | ✓ project_form.html Ln 11, Col 8 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⌂

and save the modified file **/templates/form-template.html**. It's going to be useful further along.

And if we refresh the form, we should be able to see something similar to this:



- First, move the `csrf` token and the multipart/form-data encoding:



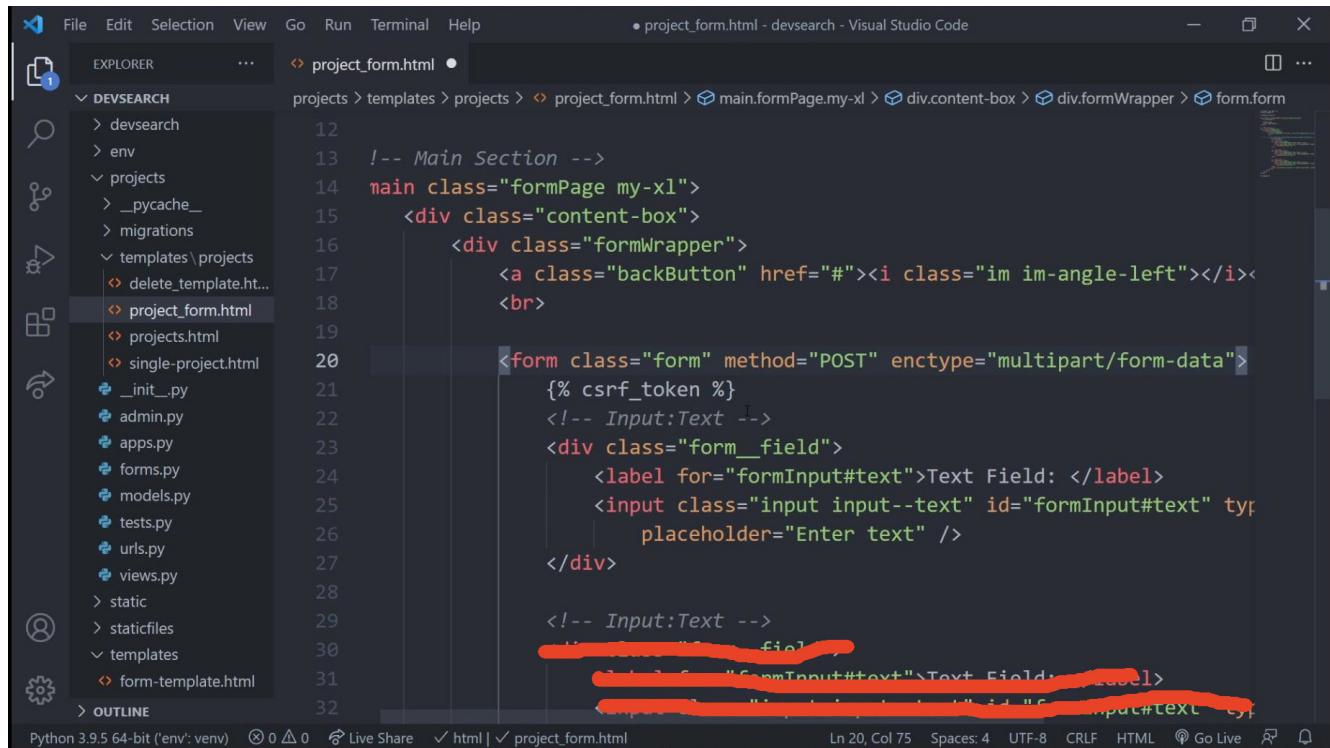
```

12
13    
14    main class="formPage my-xl">
15        <div class="content-box">
16            <div class="formWrapper">
17                <a class="backButton" href="#"><i class="im im-angle-left"></i><br>
18
19
20        <form class="form" method="POST" enctype="multipart/form-data">
21            {% csrf_token %}
22            <!-- Input:Text -->
23            <div class="form_field">
24                <label for="formInput#text">Text Field: </label>
25                <input class="input input--text" id="formInput#text" type="text" placeholder="Enter text" />
26            </div>
27
28            <!-- Input:Text -->
29            <div class="form_field">
30                <label for="formInput#text">Text Field: </label>
31                <input class="input input--text" id="formInput#text" type="text" placeholder="Enter text" />
32

```

Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 🔍 Live Share ✓ html ✎ project_form.html Ln 20, Col 75 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

and remove all the `form__fields`, except one from the template and leave (don't delete) the submit button in the form:



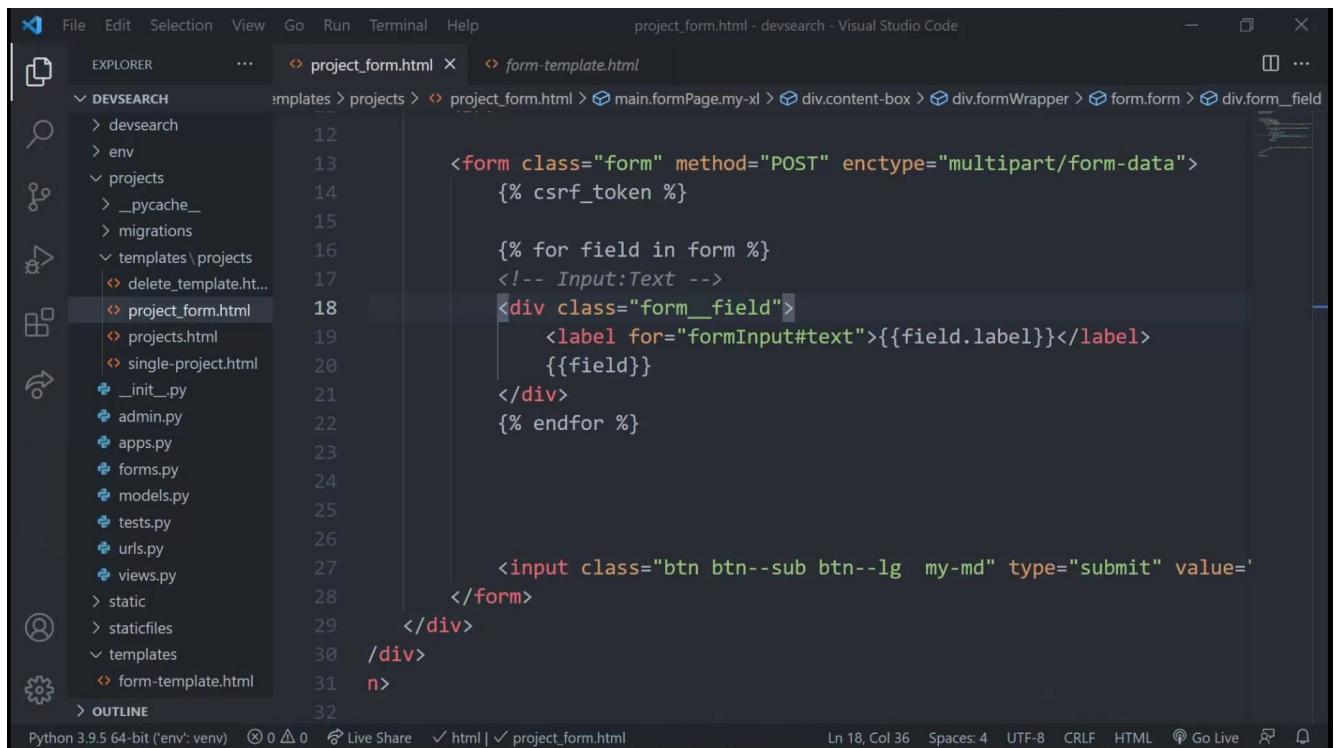
```

12
13    
14    main class="formPage my-xl">
15        <div class="content-box">
16            <div class="formWrapper">
17                <a class="backButton" href="#"><i class="im im-angle-left"></i><br>
18
19
20        <form class="form" method="POST" enctype="multipart/form-data">
21            {% csrf_token %}
22            <!-- Input:Text -->
23            <div class="form_field">
24                <label for="formInput#text">Text Field: </label>
25                <input class="input input--text" id="formInput#text" type="text" placeholder="Enter text" />
26            </div>
27
28            <!-- Input:Text -->
29            <div class="form_field">
30                <label for="formInput#text">Text Field: </label>
31                <input class="input input--text" id="formInput#text" type="text" placeholder="Enter text" />
32

```

Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 🔍 Live Share ✓ html ✎ project_form.html Ln 20, Col 75 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

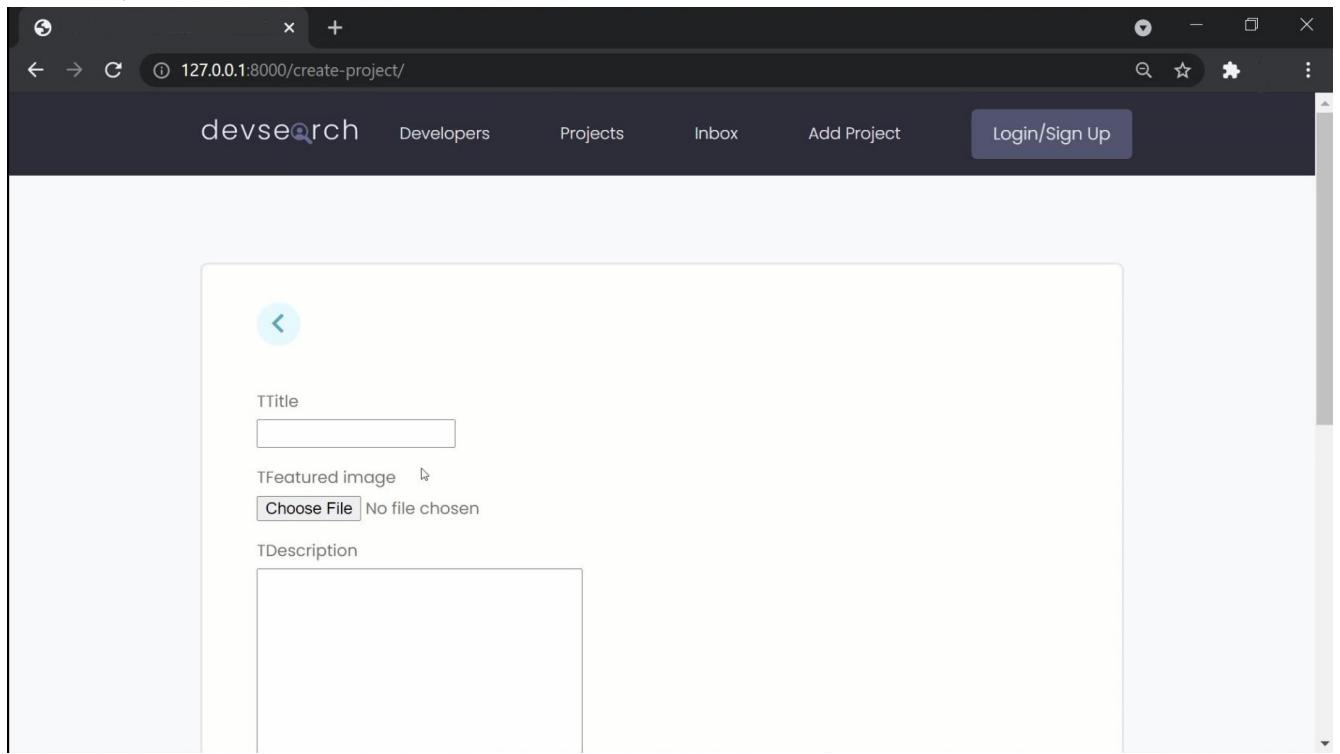
What we're going to be doing is to loop through all the form fields defined by the model.



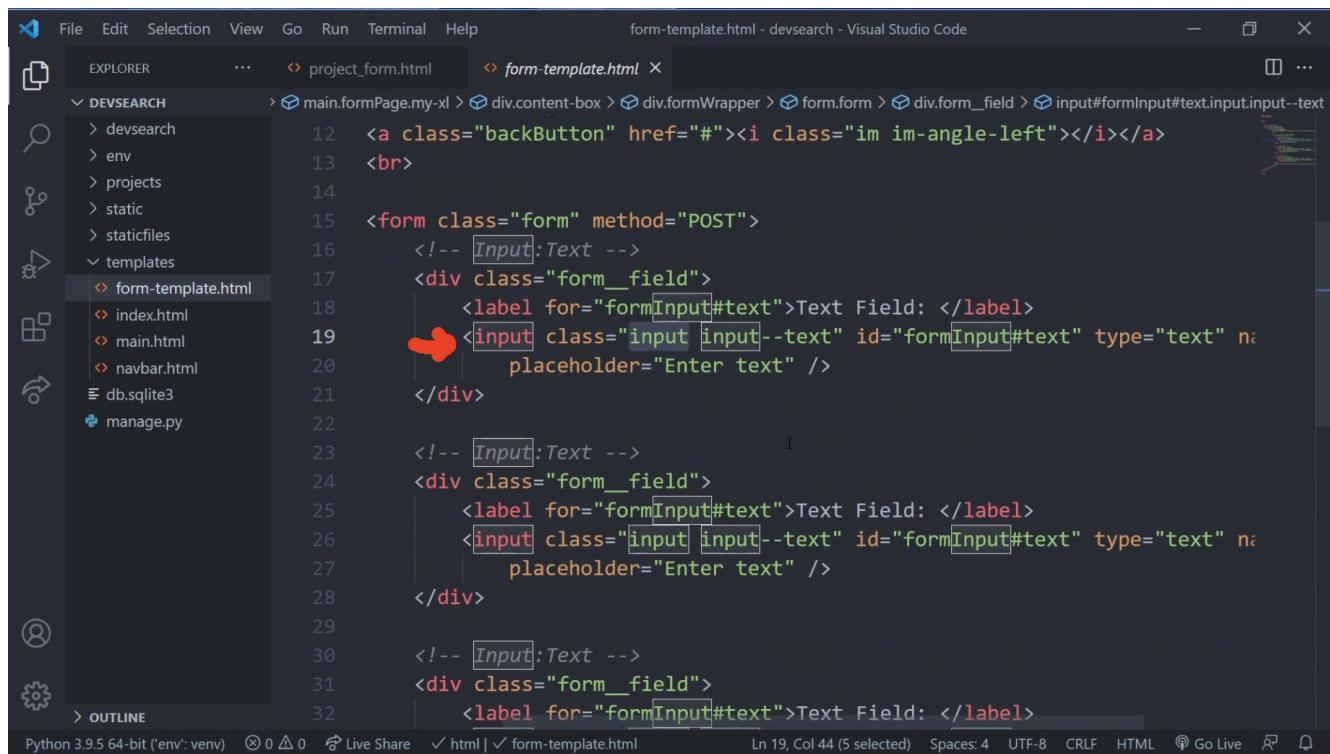
```
project_form.html - devsearch - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER project_form.html < form-template.html
DESEARCH templates > projects > project_form.html > main.formPage.my-xl > div.content-box > div.formWrapper > form.form > div.form_field
12
13     <form class="form" method="POST" enctype="multipart/form-data">
14         {% csrf_token %}
15
16         {% for field in form %}
17             <!-- Input:Text -->
18             <div class="form_field">
19                 <label for="formInput#text">{{field.label}}</label>
20                 {{field}}
21             </div>
22
23         {% endfor %}
24
25
26             <input class="btn btn--sub btn--lg my-md" type="submit" value='
27
28         </form>
29     </div>
30 </div>
31 n>
32
```

Python 3.9.5 64-bit ('env': venv) ⑧ 0 △ 0 Live Share ✓ html | ✓ project_form.html Ln 18, Col 36 Spaces: 4 UTF-8 CRLF HTML ⚡ Go Live ⚡

With this, our form should look better:



- Style each field. In order to understand how to style each field, open up the modified **/template/form-template.html**. You should notice that each field has an **_input class="..."_**



```
12 <a class="backButton" href="#">
```

The issue is how to determine the corresponding style for each input dynamically.

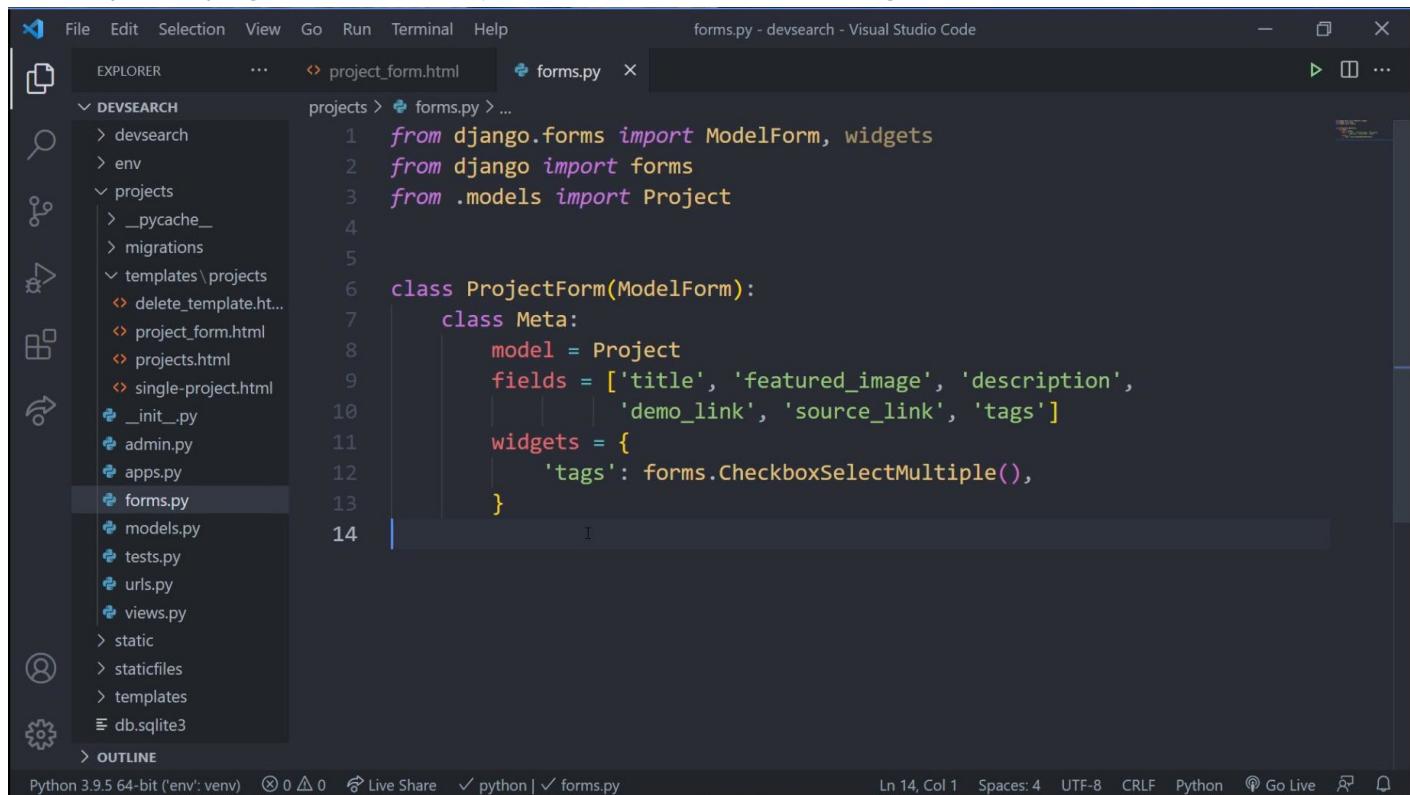
There are various ways. One requires the use of JavaScript in order to traverse the DOM and find out the various field names via their id and then modify their corresponding fields. But an easier way is to customize a model form and apply a class in the model form.

Modifying the Model Form.

Open up the **/projects/forms.py** file and we're going to change the ProjectForm class in order to change several widgets for the specific fields being used in the form.

The first thing is to modify our tags field in order to use check boxes instead of a drop-down menu.

We'll import a django module named *forms* which defines several widget classes.



```

File Edit Selection View Go Run Terminal Help
forms.py - devsearch - Visual Studio Code
EXPLORER ... project_form.html forms.py ...
DESEARCH projects > forms.py > ...
> devsearch
> env
< projects
> __pycache__
> migrations
< templates\projects
> delete_template.html...
> project_form.html
> projects.html
> single-project.html
> __init__.py
> admin.py
> apps.py
> forms.py
> models.py
> tests.py
> urls.py
> views.py
> static
> staticfiles
> templates
> db.sqlite3
> OUTLINE
Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 🔍 Live Share ✓ python | ✓ forms.py
Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python ⚡ Go Live 🔍 🔍

```

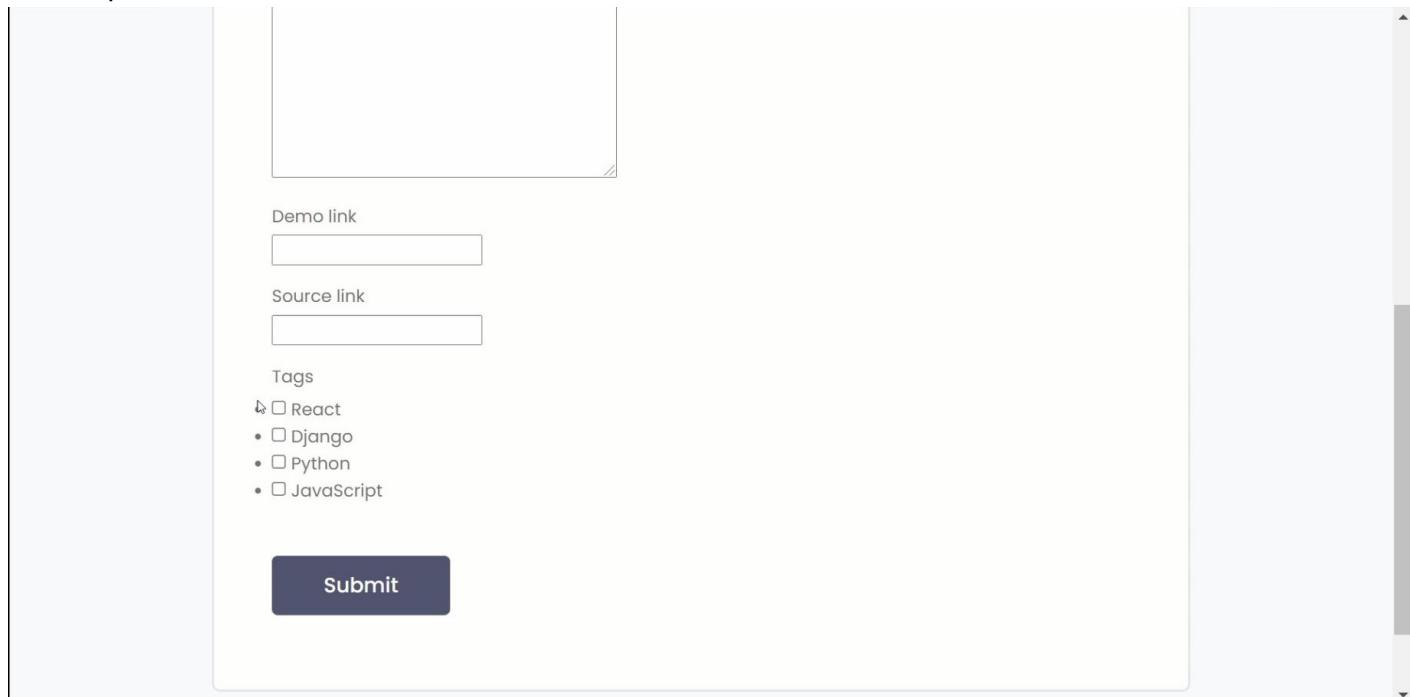
```

from django.forms import ModelForm, widgets
from django import forms
from .models import Project

class ProjectForm(ModelForm):
    class Meta:
        model = Project
        fields = ['title', 'featured_image', 'description',
                  'demo_link', 'source_link', 'tags']
        widgets = {
            'tags': forms.CheckboxSelectMultiple(),
        }

```

and now, if you refresh the form page you should notice that the tags now are selected via a check box instead of a drop-down selection menu



Demo link

Source link

Tags

- React
- Django
- Python
- JavaScript

Submit

Next, we'll be adding classes for the text input fields.

In order to achieve this, we need to overwrite our ProjectForm constructor:

```

File Edit Selection View Go Run Terminal Help
forms.py - devsearch - Visual Studio Code
EXPLORER ... project_form.html forms.py
DESEARCH projects > forms.py > ProjectForm > __init__
model = Project
fields = ['title', 'featured_image', 'description',
          'demo_link', 'source_link', 'tags']
widgets = {
    'tags': forms.CheckboxSelectMultiple(),
}

def __init__(self, *args, **kwargs):
    super(ProjectForm, self).__init__(*args, **kwargs)

    for name, field in self.fields.items():
        field.widget.attrs.update({'class': 'input'})

# self.fields['title'].widget.attrs.update(
#     {'class': 'input'})

# self.fields['description'].widget.attrs.update(
#     {'class': 'input'})

```

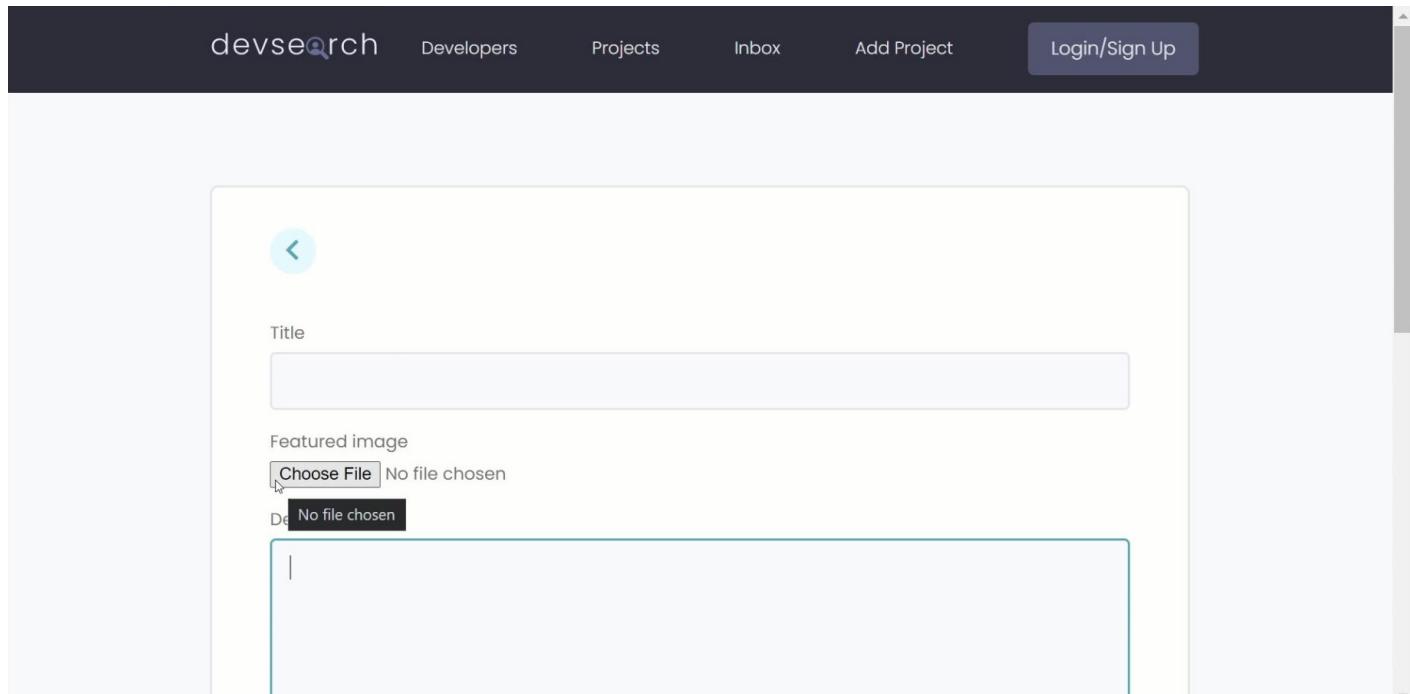
Python 3.9.5 64-bit ('env': venv) ⚡ 0 △ 0 🔍 Live Share ✓ python | ✓ forms.py

Ln 18, Col 38 Spaces: 4 UTF-8 CRLF Python ⚡ Go Live 🔍

The constructor is an old style constructor, generally handled this way for compatibility issues with legacy code. We can actually modify the *super* function with the newer style:

```
super().__init__(*args, **kwargs)
```

and the changes into the form will look like:



where all the fields show their labels.

And this is how you generally adapt an existing style format to your Django applications.