

# CRUD Operations and Forms

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In the present document we will adapt our forms from the previous document in order to accept Create, Read, Update, and Delete (CRUD) operations that affect the database.

There are four verbs used in any web operation defined in the HTTP/HTTPS protocol:

Verb	Description	Database Equivalent	Operation
POST	Informs the site that there's data being sent to it.	INSERT	CREATE
GET	Informs the site that should send a response with the data indicated by the argument	SELECT	READ
UPDATE	Informs the site that the data sent must update already existing data.	UPDATE	UPDATE
DELETE	Informs the site that it should any data indicated by the parameter	DELETE	DELETE

We need to modify our form views in order to respond to each one of the HTTP/HTTPS verbs and interact with our database accordingly.

## Initial Modifications to our Forms

First, we are not interested in showing all the fields present in our `/projects/models.py`

**Project Form**

Title:

Description:

Demo link:

Source link:

Tags:

Vote total:  **X**

Vote ratio:  **X**

FOOTER

We want to leave Vote total and Vote ratio out of the form. With that in mind, let's modify our forms.py in /projects/forms.py to accept only the fields for:

- title
- description
- demo\_link
- source\_link
- tags

in our createProject class.

```

1  from django.forms import ModelForm
2  from .models import Project
3
4
5  class ProjectForm(ModelForm):
6      class Meta:
7          model = Project
8          fields = ['title', 'description', 'demo_link', 'source_link', 'tags']
9

```

so, our form should look like this:

Logo

[Add Project](#)

## Project Form

Title:

Description:

Demo link:

Source link:

Tags:

FOOTER

If you submit something into the form:

Logo

[Add Project](#)

## Project Form

Title:

Description:

Demo link:

Source link:

Tags:

you should be able to see the POST method after the submission:

```

- 18:00:28
Django version 3.2.4, using settings 'devsearch.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[ 18:00:30] "GET /create-project/ HTTP/1.1" 200 1568
[ 18:00:59] "POST /create-project/ HTTP/1.1" 200 1568

```

The reply for the POST method is given by the form argument method in the `project_form.html`, but the form doesn't do anything with the input data. The reason is that there's another argument missing:

```

1 {% extends 'main.html' %}
2 {% block content %}
3
4 <h1>Project Form</h1>
5
6 <form action="" method="POST">
7     {% csrf_token %}
8
9     {{form.as_p}}
10    <input type="submit">
11 </form>
12
13 {% endblock %}

```

The URI of a program that processes the form information. This value can be overridden by a `formaction` attribute on a `<button>` or `<input>` element.

This missing argument is the `formaction` attribute. The `formaction` attribute is the direction to the function that will process the form data.

For the time being, we'll leave this argument empty (an empty string) since we have to define the processing function first. We'll return after we have defined such function.

Let's see how the data is passed from the html form to the function form `createProject` class. Our first order of business is to instantiate our `ProjectForm` class inside the `createProject` class in the `/projects/views.py`

The `request` parameter contains information on the request type. The request type is identified by an enumerate:

```

request.POST
request.GET
request.UPDATE
request.DELETE

```

that we can use to redirect the function accordingly. In our case, we'll use `request.POST` and retrieve the form input data on a variable `form`

```

12
13 def project(request, pk):
14     projectObj = Project.objects.get(id=pk)
15     return render(request, 'projects/single-project.html', {'project': pro
16
17
18 def createProject(request):
19     form = ProjectForm()
20
21     if request.method == 'POST':
22         form = ProjectForm(request.POST)
23
24     context = {'form': form}

```

18:00:28

Starting development server at http://127.0.0.1:8000/  
Quit the server with CTRL-BREAK.

[ 18:00:30] "GET /create-project/ HTTP/1.1" 200 1568  
[ 18:00:59] "POST /create-project/ HTTP/1.1" 200 1568

But for demonstration purposes, let's comment the line which assigns the variable from inside the *if* statement and print the argument *request.POST* and introduce some data into the form:

```

13 def project(request, pk):
14     projectObj = Project.objects.get(id=pk)
15     return render(request, 'projects/single-project.html', {'project': projectObj})
16
17
18 def createProject(request):
19     form = ProjectForm()
20
21     if request.method == 'POST':
22         print(request.POST)
23         #form = ProjectForm(request.POST)
24
25     context = {'form': form}

```

18:02:00

System check identified no issues at 18:02:00

Django version 3.2.4, using settings devsearch.settings

Starting development server at http://127.0.0.1:8000/  
Quit the server with CTRL-BREAK.

127.0.0.1:8000/create-project/

Logo

[Add Project](#)

## Project Form

Title:

Description:

Demo link:

Source link:

Tags:

The reply is an object of type *QueryDict* which contains all the data returned by the form



```

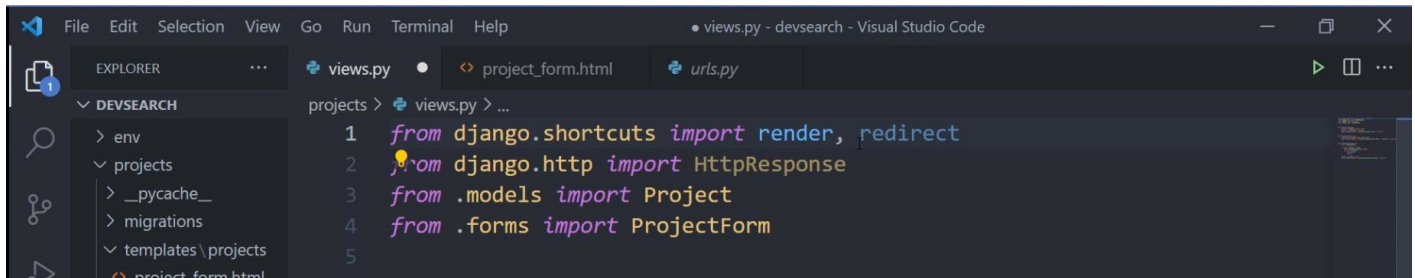
File Edit Selection View Go Run Terminal Help
views.py - devsearch - Visual Studio Code

EXPLORER
DEVSEARCH
  > env
  > projects
    > __pycache__
    > migrations
    > templates\projects
      <> project_form.html
      <> projects.html
      <> single-project.html
    <> __init__.py
    <> admin.py
    <> apps.py
    <> forms.py
    <> models.py
    <> tests.py
    <> urls.py
    <> views.py
  > templates
    <> main.html
    <> navbar.html
  <> db.sqlite3
  <> manage.py
  > OUTLINE

views.py
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```

If the form is valid, i. e., all the fields pass the default validation tests, we save the form and return to the main page *projects* through a redirection.

The ***django.shortcuts.redirect*** function is a facility that allow us to go to specific parts of the project. We need to include it via an import:



How does *redirect* work?

***redirect*** works on dynamic assignment mechanisms we've seen before in our templates with url:

```
{% extends 'main.html' %}
{% block content %}

<p> Hello, you've reach the {{ page }} page </p>

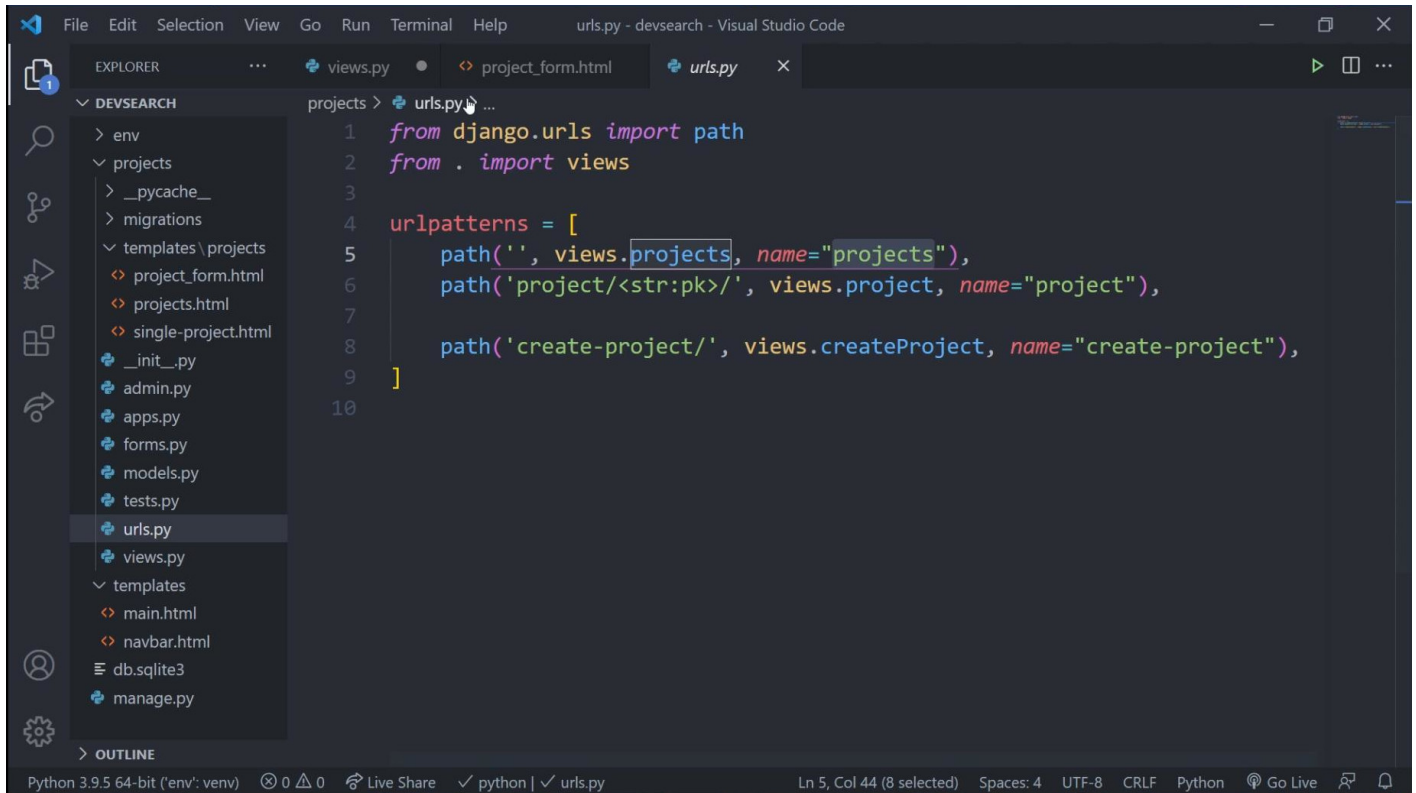
<!-- Let's render the list of projects -->
<h1> Our Project List: </h1>
<ol>
    {% for project in projects %}
        <li> Project Title: <a href="{% url 'project' project.id %}">{{
project.title }}</a> --- {{ project.description }} </li>
    {% endfor %}
</ol>

{% endblock content %}
```

Notice that

```
<a href="{% url 'project' project.id %}">{{ project.title }} </a>
```

'project' is the *name* = 'project' in our /projects/urls.py file:



so, for returning to the main page ('projects') page, we use the redirection function

```
if form.is_valid:
    form.save()
    return redirect('projects')
```

uses the `path()` with the `name = 'projects'`. The assignment is dynamic.

## Insert Data to our Database

This is our testing phase for the form. Let's introduce some data into our form:



**Logo**

[Add Project](#)

---

## Project Form

Title:

Description: 

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed

Demo link:

Source link:

Tags: 

React  
Django  
Python  
JavaScript

FOOTER

and after submitting the form, you should return to your projects page which should also include the new project:

**Logo**

[Add Project](#)

---

## Projects

ID	Project	Positive Votes	Votes
b7074c3e-c42b-4527-92e3-c3e0eb40d750	Ecommerce Website	30%	12 June 15, 2021, 1:24 p.m. <a href="#">View</a>
a7907870-580f-4db8-a110-8e10a88b15a5	Portfolio Website	65%	6 June 15, 2021, 1:25 p.m. <a href="#">View</a>
4751d9bc-3709-46eb-828b-fab89d848ca8	Mumble Social Network	74%	89 June 15, 2021, 1:25 p.m. <a href="#">View</a>
4403d6b4-7f86-4c4b-912d-49540b17a7d6	Code Sniper	78%	80 June 15, 2021, 3:53 p.m. <a href="#">View</a>
befd0ddd-829a-490d-81df-2eb25698e104	Yogo Vive	98%	51 June 15, 2021, 3:53 p.m. <a href="#">View</a>
f4f79b7e-41be-4276-9281-88479c6419b6	Cool tuts	0%	0 June 15, 2021, 10:04 p.m. <a href="#">View</a>

FOOTER

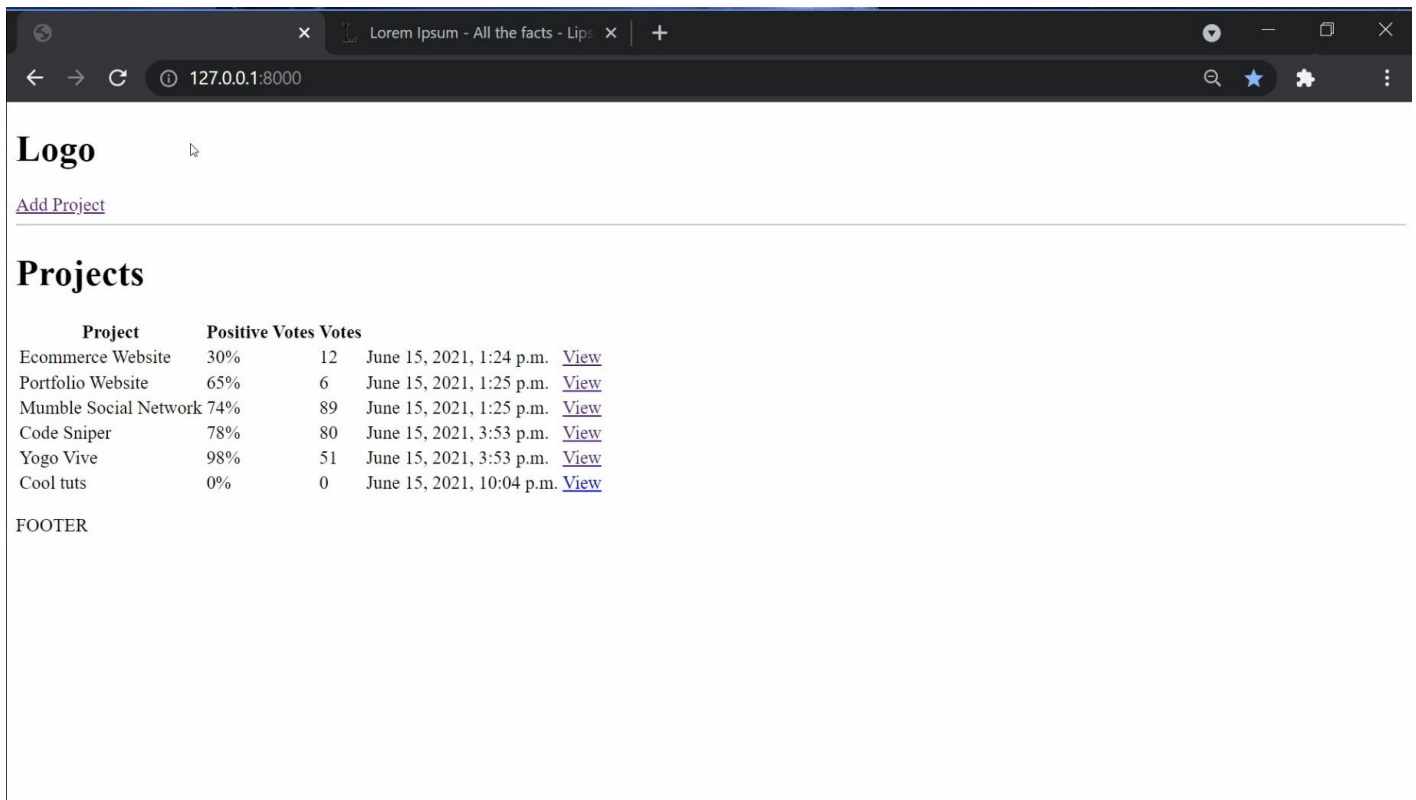
Let's clean the view a little bit by removing the ID part of the table in the `/projects/templates/projects/projects.html`:

```

5
6 <table>
7   <tr>
8     <th>ID</th>
9     <th>Project</th>
10    <th>Positive Votes</th>
11    <th>Votes</th>
12    <th></th>
13  </tr>
14  {% for project in projects %}
15  <tr>
16    <td>{{project.id}}</td>
17    <td>{{project.title}}</td>
18    <td>{{project.vote_ratio}}%</td>
19    <td>{{project.vote_total}}</td>
20    <td>{{project.created}}</td>
21    <td><a href="{% url 'project' project.id %}">View</a></td>
22  </tr>
23  {% endfor %}
24 </table>
25

```

Our template should look cleaner:



THAT'S IT!

The data is already stored in the database when we used the `form.save()` method.

Try more data:

Logo

[Add Project](#)

## Project Form

Title:

Description: 

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed

Demo link:

Source link:

Tags: 

React  
Django  
Python  
JavaScript

FOOTER

With the new data:

Logo

[Add Project](#)

## Projects

Project	Positive	Votes	Votes	
Ecommerce Website	30%	12	June 15, 2021, 1:24 p.m.	<a href="#">View</a>
Portfolio Website	65%	6	June 15, 2021, 1:25 p.m.	<a href="#">View</a>
Mumble Social Network	74%	89	June 15, 2021, 1:25 p.m.	<a href="#">View</a>
Code Sniper	78%	80	June 15, 2021, 3:53 p.m.	<a href="#">View</a>
Yogo Vive	98%	51	June 15, 2021, 3:53 p.m.	<a href="#">View</a>
Cool tuts	0%	0	June 15, 2021, 10:04 p.m.	<a href="#">View</a>
Second project	0%	0	June 15, 2021, 10:05 p.m.	<a href="#">View</a>

FOOTER

If you enter the admin panel (127.0.0.1:8000/admin/projects/project) you should be able to see the new added projects to the database:

