



How to Insert Data into a Database from an HTML form in Django



In this article, we show how to insert data into a database from an HTML form in Django.

If you use a `ModelForm` in Django, you wouldn't need to worry about inserting data into the database, because this would be done automatically. This is the case with Django `ModelForms`.

However, there are times where you may not want to use Django `ModelForms` and instead just want to code the form directly in HTML and then insert the data that the user has entered into the database. This is what this article addresses. We will show how to insert the data that a user enters into an HTML form into the database.

So let's create a form in which a user creates a post. This post form will simply take in 2 values, the title of the post and the content of the post.

We will then insert this into the database.

So the first thing we have to do is create our database (the model) in the `models.py` file.

`models.py` File

So the first thing we have to do is create our database.

We will call our database, `Post`.

It will only have two fields: title and content.

```
#models.py file

from django.db import models

class Post(models.Model):
    title= models.CharField(max_length=300, unique=True)
    content= models.TextField()
```

Okay, this is a very basic database. We simply have a title and a content field.

After this, we save the file and then, within the command line, run the command, `py manage.py makemigrations`, and then run the command, `py manage.py migrate`.

createpost.html Template File

Now we'll create our template file. We'll call it, `createpost.html`

Within this template file, we are going to have the form where a user can submit a post.

It is a simple form that only contains 2 fields: title and content.

This is shown in the code below.

```
<html>
<head>
<title>Create a Post </title>
</head>

<body>
<h1>Create a Post </h1>
<form action="" method="POST">
{% csrf_token %}
Title: <input type="text" name="title"/><br/>
Content: <br/>
<textarea cols="35" rows="8" name="content">
</textarea><br/>
<input type="submit" value="Post"/>
</form>
</body>

</html>
```

So this template contains a very basic form that has 2 fields: one which is title and the other which is content.

We need a name attribute with each form field because this is how we will extract the data that the user enters into the field.

views.py File

Lastly, we have our views.py file.

In this file, we will take the data that the user has entered into the form fields and insert the data into a database.

The following code in the views.py file does this.

```
from django.shortcuts import render
from .models import Post

def createpost(request):
    if request.method == 'POST':
        if request.POST.get('title') and request.POST.get('content'):
            post=Post()
            post.title= request.POST.get('title')
            post.content= request.POST.get('content')
            post.save()

            return render(request, 'posts/create.html')

    else:
        return render(request,'posts/create.html')
```

So this is the heart of our code in which we extract the data from the form fields that the user has entered and insert the data into a database.

The first thing we want to do is to make sure that the user has clicked the 'Post' button on the template file. We check this with, `if request.method == 'POST':`

We want to make sure that the fields aren't blank. So we use the if statement, `if request.POST.get('title') and request.POST.get('content'):`, to make sure both fields are filled in.

After this, we create a variable named `post` and set it equal to `Post()`

This sets the variable equal to the Post database. Remember that you must import the database at the top of the views.py page.

Now in order to insert data into the database use the database name followed with a ., and then the form field- we then set this equal to request.POST.get('attribute')

To save data to the title database field, we use the statement, post.title, and set this equal to request.POST.get('title'). This takes the title database field and sets it equal to whatever data the user entered into the title form field.

To save data to the content database field, we use the statement, post.content, and set this equal to request.POST.get('content'). This takes the content database field and sets it equal to whatever data the user entered into the content form field.

We then save the data. Without the statement, post.save(), the data isn't saved.

You then would return any template file that you want to.

And this is how we can insert data into a database from an HTML form in Django.

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