How to create a form using Django Forms ?

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Django forms are an advanced set of HTML forms that can be created using python and support all features of HTML forms in a pythonic way. This post revolves around how to create a basic form using various Form Fields and attributes. Creating a form in Django is completely similar to creating a model, one needs to specify what fields would exist in the form and of what type. For example, to input, a registration form one might need First Name (CharField), Roll Number (IntegerField), and so on.

Creating a form using Django Forms

Illustration of **Django Forms** using an Example. Consider a project named geeksforgeeks having an app named geeks.

> *Refer to the following articles to check how to create a project and an app in Django.*

- *How to Create a Basic Project using MVT in Django?*
- *How to Create an App in Django ?*

In your geeks app make a new file called forms.py where you would be making all your forms. To create a Django form you need to use Django Form Class. Let's demonstrate it.

In your forms.py Enter the following,

Python3

```
from django import forms

# creating a form
class InputForm(forms.Form):
```



```
    last_name = forms.CharField(max_length = 200)
    roll_number = forms.IntegerField(
                    help_text = "Enter 6 digit roll number"
                    )
    password = forms.CharField(widget = forms.PasswordInput())
```

Let's explain what exactly is happening, left side denotes the name of the field and to the right of it, you define various functionalities of an input field correspondingly. A field's syntax is denoted as

Syntax :

```
Field_name = forms.FieldType(attributes)
```

Now to render this form into a view, move to views.py and create a home_view as below.

Python3

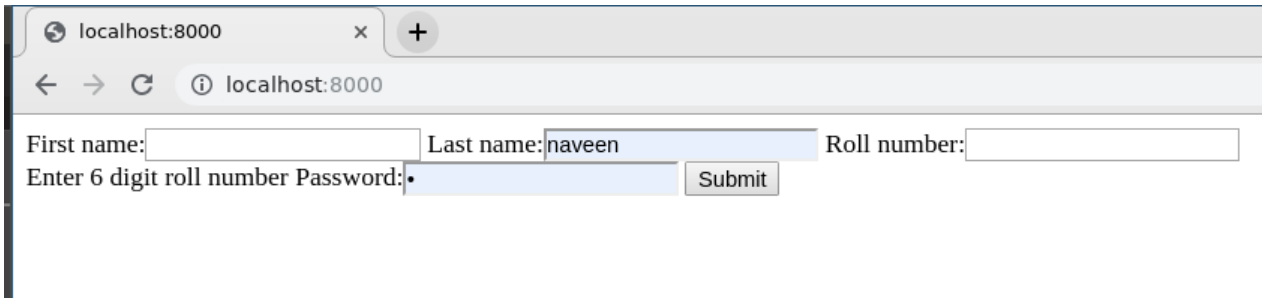
```
from django.shortcuts import render
from .forms import InputForm

# Create your views here.
def home_view(request):
    context ={}
    context['form']= InputForm()
    return render(request, "home.html", context)
```

In view, one needs to just create an instance of the form class created above in forms.py. Now let's edit templates > home.html

HTML

```
<form action = "" method = "post">
    {% csrf_token %}
    {{form }}
    <input type="submit" value=Submit">
</form>
```

All set to check if the form is working or not let's visit http://localhost:8000/



The form is working properly but visuals are disappointing, Django provides some predefined ways to show forms in a convenient manner. In templates, the following will modify the inputs as,

- {{ form.as_table }} will render them as table cells wrapped in <tr> tags
- {{ form.as_p }} will render them wrapped in <p> tags
- {{ form.as_ul }} will render them wrapped in <li> tags

One can modify these settings also and show fields as he wants using {{ form.field_name }} but this may alter the normal process of validation if some field is empty and hence needs extraordinary care. More – Django Forms

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