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# Render Django Form Fields Manually

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Django form fields have several built-in methods to ease the work of the developer but sometimes one needs to implement things manually for customizing User Interface(UI). We have already covered on <a href="How to create and use a form in Django?">How to create and use a form in Django?</a>. A form comes with 3 in-built methods that can be used to render Django form fields.

- {{ form.as\_table }} will render them as table cells wrapped in tags
- <u>{{ form.as\_p}}</u> will render them wrapped in tags
- {{ form.as\_ul }} will render them wrapped in tags

These render the form automatically but if you want to create a beautiful form with some CSS effects, you need to render the form fields manually. This article revolves around how to render the form fields manually.

# Rendering Form fields manually

Illustration of **Rendering Django Forms Manually** 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 <u>Django Form Class</u>. Let's demonstrate how,

In your forms.py Enter the following,

# Python3

Let's explain what exactly is happening, left side denotes the name of the field and to 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 form is working or not let's visit <a href="http://localhost:8000/">http://localhost:8000/</a>



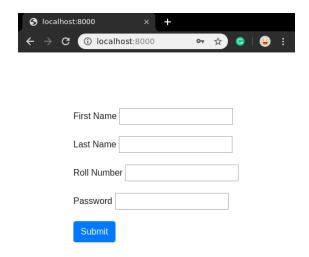
Form is working properly but visuals are disappointing, We can render these fields manually to improve some visual stuff. Each field is available as an attribute of the form using {{ form.name\_of\_field }}, and in a Django template, will be rendered appropriately. For example:

Let's modify our form to look pretty impressive,

### html

```
<html>
<head>
    link
    rel="stylesheet"
    href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.cs
    <style>
        .i-am-centered {
            margin: auto;
            max-width: 300px;
            padding-top: 20%;
    </style>
</head>
<body>
    <div class="i-am-centered">
        <form method="POST">
            {% csrf_token %}
            <div class="form-group">
                <label>First Name </label>
                {{ form.first_name }}
            </div>
            <div class="form-group">
                <label>Last Name </label>
                {{ form.last_name }}
            </div>
            <div class="form-group">
                <label>Roll Number</label>
                {{ form.roll number }}
            <div class="form-group">
```

Now visit <a href="http://localhost:8000/">http://localhost:8000/</a> and check modified form.



These were just some basic modifications using Bootstrap. One can customize it to an advanced level using various CSS tricks and methods.

# {{ field }} attributes

• {{ field.label }}

The label of the field, e.g. Email address.

{{ field.label\_tag }}

The field's label wrapped in the appropriate HTML tag. This includes the form's label\_suffix. For example, the default label\_suffix is a colon:

### <label for="id\_email">Email address:</label>

### {{ field.id\_for\_label }}

The ID that will be used for this field (id\_email in the example above). If you are constructing the label manually, you may want to use this in place of label\_tag. It's also useful, for example, if you have some inline JavaScript and want to avoid hardcoding the field's ID.

### • {{ field.value }}

The value of the field. e.g someone@example.com.

### {{ field.html\_name }}

The name of the field that will be used in the input element's name field. This takes the form prefix into account, if it has been set.

### • {{ field.help\_text }}

Any help text that has been associated with the field.

### • {{ field.errors }}

Outputs a containing any validation errors corresponding to this field. You can customize the presentation of the errors with a {% for error in field.errors %} loop. In this case, each object in the loop is a string containing the error message.

## • {{ field.is\_hidden }}

This attribute is True if the form field is a hidden field and False otherwise. It's not particularly useful as a template variable, but could be useful in conditional tests such as:

```
{% if field.is_hidden %}
   {# Do something special #}
{% endif %}
```

### • {{ field.field }}

The Field instance from the form class that this BoundField wraps. You can use it to access Field attributes, e.g. {{ char\_field.field.max\_length }}

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