

HELLO

Outlines



Model Form



Model Form

In Django, a ModelForm is a form that is automatically generated from an existing model.

A ModelForm includes all the fields defined in the model, along with any additional validation and processing logic that you define in the form class.

Model Form

```
from django.db import models

class Article(models.Model):
    title = models.CharField(max_length=200)
    author = models.CharField(max_length=100)
    content = models.TextField()
```

models.py

```
from django import forms
from .models import Article

class ArticleForm(forms.ModelForm):
    class Meta:
        model = Article
        fields = ['title', 'author', 'content']
```

forms.py

Meta Class

a metaclass is a class that defines how other classes should behave. **provides additional information about the model form.** Here are some common options that can be defined in the Meta class:

model: The model that the form is based on.

fields: A list of fields to include in the form. If this option is not specified, all fields in the model will be included in the form.

exclude: A list of fields to exclude from the form.

widgets: A dictionary of field names and their associated widgets.

labels: A dictionary of field names and their associated labels.

help_texts: A dictionary of field names and their associated help text.

error_messages: A dictionary of field names and their associated error messages.

Meta Class

```
from django import forms
from .models import Article

class ArticleForm(forms.ModelForm):
    class Meta:
        model = Article
        fields = ['title', 'author', 'content']
        labels = {
            'title': 'Title of the article',
            'author': 'Author name',
            'content': 'Content of the article'
        }
        help_texts = {
            'title': 'Enter a descriptive title for the article',
            'author': 'Enter the name of the author',
            'content': 'Enter the content of the article'
        }
```

Model Form Fields

Model Field	Form Field
AutoField	Not Represented in the Form
BigAutoField	Not Represented in the Form
BigIntegerField	IntegerField with min_value set to -9223372036854775808 and max_value set to 9223372036854775807.
BinaryField	CharField, if editable is set to True on the model field, otherwise not represented in the form.
BooleanField	BooleanField, or NullBooleanField if null=True.
CharField	CharField with max_length set to the model field's max_length and empty_value set to None if null=True.
.DateField	DateField
DateTimeField	DateTimeField
DecimalField	DecimalField
DurationField	DurationField

Model Form Fields

Model Field	Form Field
EmailField	EmailField
FileField	FileField
FilePathField	FilePathField
FloatField	FloatField
ForeignKey	ModelChoiceField
ImageField	ImageField
IntegerField	IntegerField
IPAddressField	IPAddressField
GenericIPAddressField	GenericIPAddressField
ManyToManyField	ModelMultipleChoiceField
NullBooleanField	NullBooleanField
PositiveIntegerField	IntegerField

Model Form Fields

Model Field	Form Field
PositiveSmallIntegerField	IntegerField
SlugField	SlugField
SmallAutoField	Not represented in the form
SmallIntegerField	IntegerField
TextField	CharField with widget=forms.Textarea
TimeField	TimeField
URLField	URLField
UUIDField	UUIDField

save()

save (commit=False/True) Method form. This method creates and saves a database object from the data bound to the form. **by default True**

save (commit=False/True)

if commit=False , then it will return an object that hasn't yet been saved to the database.



THANK
you