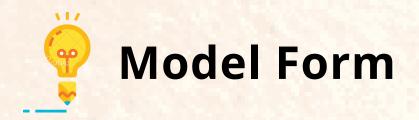




### Outlines





### **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.



