charfield: used for fixed length of character

textfield: used for storing variable length of character

-					
7	('P	າລ	rFi		
-	u	ıa			u

- TextField
- 3. DateField
- TimeField
- DateTimeField
- 6. SlugField
- 7. ImageField
- 8. EmailField
- 9. FileField
- JSONField
- 11. URLField
- 12. ForeignKey
- 13. ManyToManyField
- OneToOneField and many others.

Some Model Field Types Available to Use

- CharField
- TextField
- DateField
- 4. TimeField
- DateTimeField
- 6. SlugField
- 7. ImageField
- 8. EmailField
- 9. FileField
- 10. JSONField
- 11. URLField
- 12. ForeignKey
- 13. ManyToManyField
- 14. OneToOneField and many others.

Visit Django Documentation for more model field types

- 1. null
- 2. blank
- 3. choices
- 4. default
- 5. editable
- 6. error_messages
- 7. help_text
- 8. primary_key
- 9. unique
- 10. verbose_name

and many more

Visit Official Documentation for more model field options

null = True in the database we can have null values

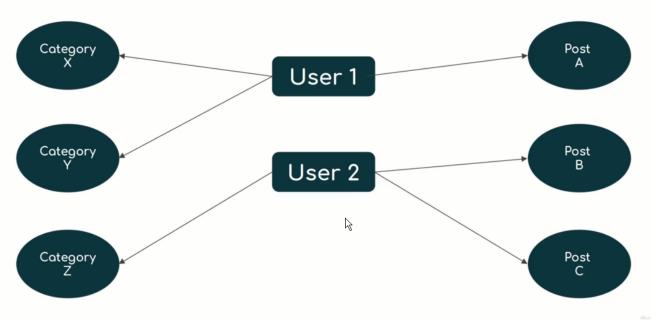
blank = True when a user dosent enter any value in the field dont raise any error

auto_now True update
auto_now_add= True create

Many to One Relationships Category X User 1 Category Z Category Z

Many to One Relationships

one user can create multiple post



one post can be created by one user

created_by=models.Foreignkey
(User,on_delete=models.Cascade)

when the user is deleted it also delete corresponding objects

Many to Many Relationships

Category
Y
Post
A
Post
B
Post
C
Category
Post
C
C
C

one category can have multiple post one post can belongs to many category

Primary Key & Verbose Field Name

- → By default, Django gives each model an auto-incrementing primary key with the type specified per app in AppConfig.default_auto_field or globally in the DEFAULT_AUTO_FIELD setting.
- → For example: id = models.BigAutoField(primary_key=True)
- → If you'd like to specify a custom primary key, specify primary_key=True on one of your fields.
- → If Django sees you've explicitly set Field.primary_key, it won't add the automatic id column.
- → Each model requires exactly one field to have primary_key=True (either explicitly declared or automatically added).

override predefine models methods

name= models.Charfield(verbose
name="Category name")

- Model metadata is "anything that's not a field", such as ordering options (ordering), database table name (db_table), or human-readable singular and plural names (verbose_name and verbose_name_plural).
- None are required, and adding class Meta to a model is completely optional.

Some Available Meta Options To Use

- 1. abstract
- 2. verbose_name
- 3. db_table
- 4. order_with_respect_to
- 5. ordering
- 6. permissions
- 7. indexes
- 8. unique_together
- 9. index_together

And many more

Visit Official Django Documentation to Know More

class Comment(models.Model):

post = models.ForeignKey(Post, on_delete=models.CASCADE)
body = models.TextField(max_length=500, blank=True, null=True)
commented_on = models.DateTimeField(auto_now_add=True)
updated_on = models.DateTimeField(auto_now=True)
commented_by = models.CharField(max_length=50)

Model Manager

- A Manager is the interface through which database query operations are provided to Django models.
- > At least one Manager exists for every model in a Django application.
- > Django adds a Manager with the name **objects** to every Django model class.
- We can also create our own model manager or modify the functionality of existing model manager.

lazy loading

when i delete the post all the corresponding comments also be deleted