TRAINING DAY18 REPORT

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What is a Slug?

A **slug** is a *URL-friendly, human-readable string* used to identify a resource (like a blog post) in a website's URL.

It usually:

- Converts spaces into hyphens (-)
- Removes special characters
- Uses **lowercase** letters only

Example:

• If your blog post title is:

"My First Django Blog!"

• Then its **slug** would be:

"my-first-django-blog"

So instead of having a URL like:

```
bash
/post/12/
```

you can have a cleaner and more descriptive URL like:

```
bash
/post/my-first-django-blog/
```

Why Slugs Are Used?

1. SEO (Search Engine Optimization)

Search engines prefer descriptive URLs — it helps ranking and readability.

e.g.,

example.com/post/django-introduction is better than example.com/post/5.

2. User-Friendly Links

Easier to read and share.

You can guess what the page is about just by looking at the link.

3. Uniqueness and Identification

Each post gets its own unique slug (like a readable ID).

4. Professionalism

It makes your website URLs look clean and production-grade.

What is a SlugField (in Django)?

In Django models, **SlugField** is a special field type designed to store these *URL-friendly strings* (slugs).

It behaves like a CharField, but it's intended specifically for slugs.

Syntax Example:

Key Attributes of SlugField:

Attribute	Description			
unique=True	Ensures that no two slugs are the same.			
blank=True	Allows the field to be optional in forms.			
null=True	Allows the field to store NULL in the database.			
max_length	Limits the number of characters. Default: 50.			
db_index=True	Optimizes lookups by slug. (Enabled by default)			

Automatically Generating Slugs

Django doesn't generate slugs automatically — you must create them manually or use a helper like slugify().

Example:

What slugify() Does?

slugify() converts a string into a valid slug:

```
python

>>> from django.utils.text import slugify
>>> slugify("Hello Django World!")
'hello-django-world'
```