### Django Workshop Day 2

#### Django Models

A model is basically a class that represents a table or collection in our Database. Which contains all the information regarding the table. These models are stored together in Django in a file models.py in our App.

```
CREATE TABLE article (
id NOT NULL PRIMARY KEY,
title varchar(255) NOT NULL,
body text NOT NULL,
publish_date date NOT NULL
);
```

# **Python ORM**

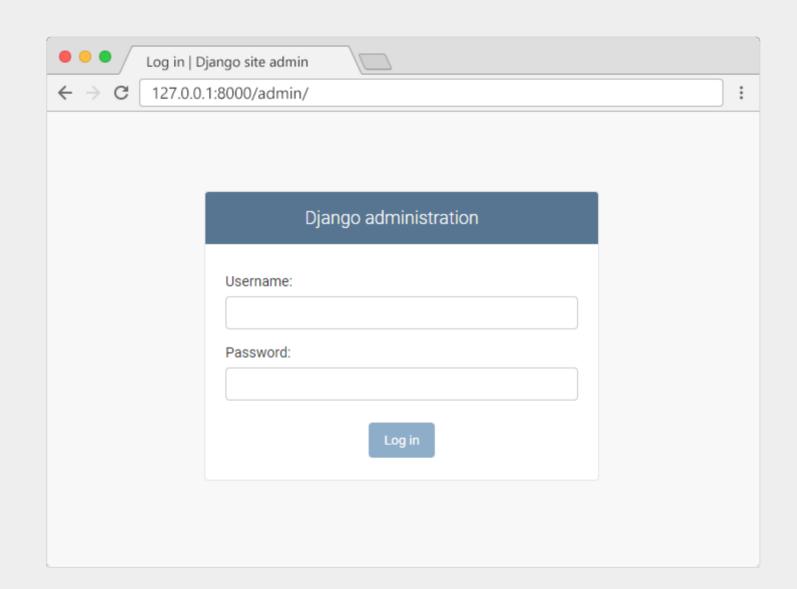
```
class Article(models.Model):
    title = models.CharField(max_length=255)
    body = models.TextField()
    publish_date = models.DateField()
```

#### python manage.py makemigrations

python manage.py migrate

#### **Django Admin Site**

The Django admin site is a built-in interface that allows developers to manage and view the application's data through a user-friendly web interface. It provides tools for adding, editing, and deleting records in the database.



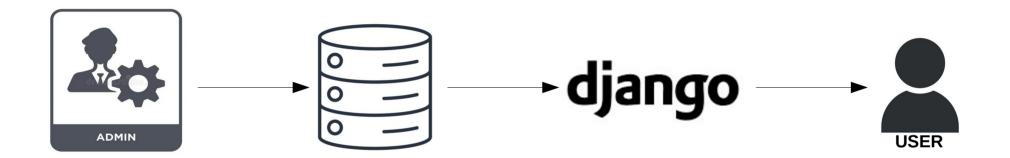
#### python manage.py createsuperuser

**SELECT \* FROM article;** 

### **Python**

Article.objects.all()

#### **DATA RECORDS**



SELECT \* FROM article ORDER BY publish\_date DESC;

### **Python**

Article.objects.all().order\_by("-publish\_date")

SELECT \* FROM article WHERE id = article\_id;

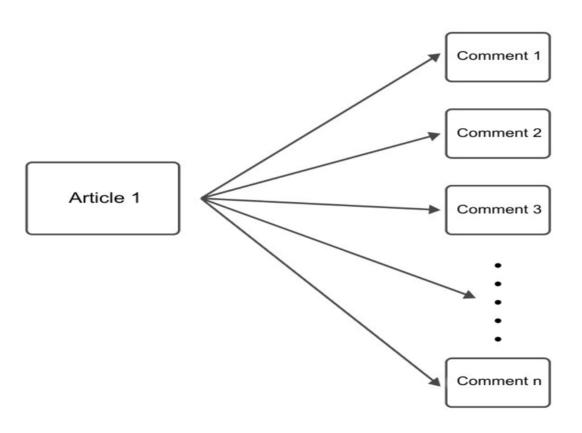
### **Python**

**Article.objects.get(id=article\_id)** 

```
CREATE TABLE article (
id NOT NULL PRIMARY KEY,
title varchar(255) NOT NULL,
body text NOT NULL,
publish_date date NOT NULL
image_link text NOT NULL;
);
```

```
CREATE TABLE comment (
id serial NOT NULL PRIMARY KEY,
name varchar(100) NOT NULL,
body varchar(2000) NOT NULL,
article_id integer NOT NULL REFERENCES article(id)
);
```

#### **Many to One Relationship**



# **Python**

```
class Comment(models.Model):
    name = models.CharField(max_length=100)
    body = models.CharField(max_length=2000)
    article = models.ForeignKey(
        Article,
        on_delete=models.CASCADE,
    )
```

SELECT \* FROM comment WHERE article\_id = 1;

### **Python**

**Comment.objects.filter(article=article)** 

INSERT INTO comment (name, body, article\_id) VALUES ('Tejaswin', 'Great article!', 2);

### **Python**

Comment.objects.create(name='Tejaswin', body='Great article!', article\_id=2)