

Create a Django Project

Open a terminal and run:

```
bash
```

```
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```

```
django-admin startproject Blog_Project
```

```
cd Blog_Project
```

2. Create a Django App

Run:

```
bash
```

```
python manage.py startapp BlogApp
```

Now, **register the app** inside INSTALLED_APPS in Blog_Project/settings.py:

```
python
```

```
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```

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'BlogApp', # Add this line  
]
```

3. Configure Database in settings.py

Modify the DATABASES setting in Blog_Project/settings.py:

```
DATABASES = {
```

```
'default': {  
    'ENGINE': 'django.db.backends.mysql', # Use MySQL database  
    'NAME': 'blogdb', # Database name  
    'USER': 'your_db_user', # Your database username  
    'PASSWORD': 'your_db_password', # Your database password  
    'HOST': 'localhost', # Default is localhost  
    'PORT': '3306', # Default MySQL port  
}  
}
```

Make sure **MySQL is installed**, and create the database manually using:

```
CREATE DATABASE blogdb;
```

or use a database management tool like **phpMyAdmin**.

4. Define the Post Model in BlogApp/models.py

```
from django.db import models
```

```
from django.contrib.auth.models import User
```

```
class Post(models.Model):
```

```
    title = models.CharField(max_length=255)
```

```
    content = models.TextField()
```

```
    created_at = models.DateTimeField(auto_now_add=True)
```

```
    updated_at = models.DateTimeField(auto_now=True)
```

```
    author = models.ForeignKey(User, on_delete=models.CASCADE) # One-to-Many with  
    User model
```

```
    def __str__(self):
```

```
        return self.title
```

- title: Stores the post title (string).
 - content: Stores the blog content (text).
 - created_at: Stores the timestamp when the post was created.
 - updated_at: Stores the timestamp when the post was last updated.
 - author: Links to the Django **User** model, establishing a **one-to-many** relationship (one user can have multiple posts).
-

5. Run Migrations

Generate Migration Files

Run:

```
bash
```

```
python manage.py makemigrations BlogApp
```

Apply Migrations to the Database

```
bash
```

```
python manage.py migrate
```

6. Create a Superuser (Optional)

To manage blog posts in the **Django Admin Panel**, create a superuser:

```
bash
```

```
python manage.py createsuperuser
```

Follow the prompts to enter:

- **Username**
 - **Email**
 - **Password**
-

7. Register the Model in Admin Panel

In BlogApp/admin.py, register the Post model:

```
from django.contrib import admin
```

```
from .models import Post
```

```
admin.site.register(Post)
```

Run the Django development server:

```
bash
```

```
python manage.py runserver
```

Visit **<http://127.0.0.1:8000/admin/>** to manage blog posts.

Project Directory Structure

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Blog_Project/

|— BlogApp/

| |— migrations/

| |— __init__.py

| |— admin.py

| |— apps.py

| |— models.py

| |— tests.py

| |— views.py

|— Blog_Project/

| |— __init__.py

| |— settings.py

| |— urls.py

| |— wsgi.py

|— manage.py