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Render Model in Django Admin Interface

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Rendering model in admin refers to adding the model to the admin interface so that data can be manipulated easily using admin interface. Django's ORM provides a predefined admin interface that can be used to manipulate data by performing operations such as INSERT, SEARCH, SELECT, CREATE, etc. as in a normal database. To start entering data in your model and using admin interface, one needs to specify or render model in admin.py.

Render Model in Django Admin Interface Explanation

Consider a project named geeksforgeeks having an app named geeks. Let us initialize a model having fields title, content, views, URL, image, etc as in a blog. To know more about various fields and their implementations visit [Django model data types and fields list](#).

Refer to the following articles to check how to create a project and an app in Django.

- [How to Create a Basic Project using MVT in Django?](#)
- [How to Create an App in Django ?](#)

Enter the following code into models.py file of **geeks** app.

Python3

```
from django.db import models
from django.db.models import Model
# Create your models here.

class GeeksModel(models.Model):
    title = models.CharField(max_length = 200)
```

```
content = models.TextField(max_length = 200, null = True, blank = True)
views = models.IntegerField()
url = models.URLField(max_length = 200)
image = models.ImageField()
```

One can easily create instances of this model using django shell but to access the admin panel and use admin panel for inserting, deleting or modifying the data following steps are to be followed:

- Before starting to use admin interface of django one needs to create superuser in django. A superuser is like an admin who can access and modify everything of a particular Django project. To create a superuser enter the following command into the terminal.

Python `createsuperuser`

- Enter your **Name, Email, Password, and confirm password.**

```
(venv) naveen@naveen-arora:~/projects/geeksforgeeks/geeksforgeeks$ python manage.py createsuperuser
Username (leave blank to use 'naveen'): naveen
Email address: abc@gmail.com
Password:
Password (again):
This password is too short. It must contain at least 8 characters.
This password is too common.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
```

- Now let us login into the admin panel

Django administration

Username:

Password:

Log in

- Its time to render our model in this admin interface. Go to admin.py in geeks app and enter following code. Import the corresponding model from

models.py and register it to the admin interface.

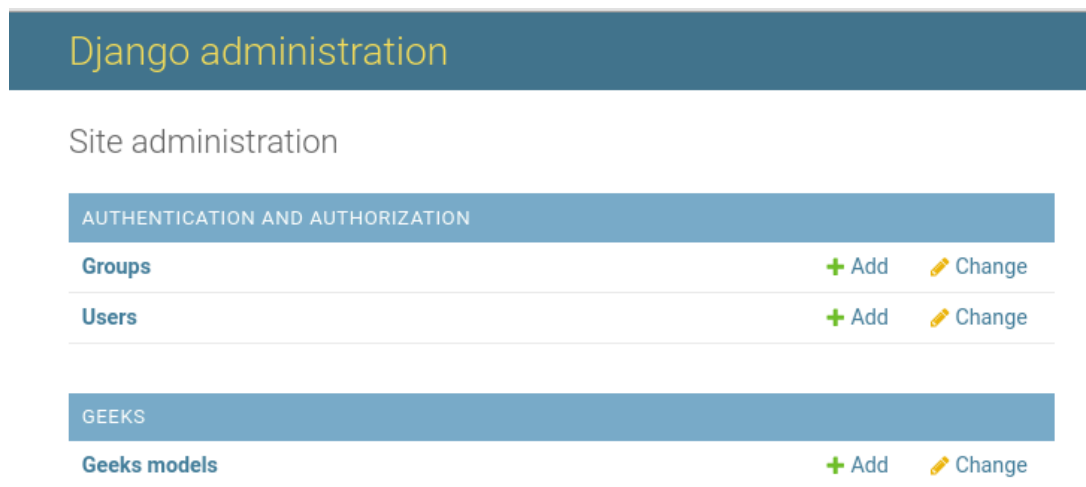
Python3

```
from django.contrib import admin

# Register your models here.
from .models import GeeksModel

admin.site.register(GeeksModel)
```

- Now lets check our admin interface. visit <http://localhost:8000/admin/>



- To add data into the model, tap **add** and enter corresponding data into the required fields. click on save.

The screenshot shows the Django administration interface for adding a new "geeks model". The page has a dark blue header with "Django administration" and a user profile "WELCOME, NAVEEN" with links for "VIEW SITE", "CHANGE PASSWORD", and "LOG OUT". Below the header, there's a breadcrumb trail: "Home > Geeks > Geeks models > Add geeks model". The main content area is titled "Add geeks model". It contains several form fields: "Title:" with a text input field, "Content:" with a large text area, "Views:" with a text input field, "Url:" with a text input field, and "Image:" with a "Choose file" button and "No file chosen" text. At the bottom right, there are three buttons: "Save and add another", "Save and continue editing", and "SAVE".

Bingo..!! Model GeeksModel has been successfully rendered into the admin interface. One can similarly render all types of models and any number of models in the Django Admin Interface.

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- [Change Object Display Name using __str__ function – Django Models](#)
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