# How to do CURD operations on tables using Admin site:

Django provides an admin site to allow CRUD (Create Read Update Delete) operations on registered app model.

It is a built-in feature of Django that automatically generates interface for models.

We can see the url entry for admin in urls.py file, it is implicit and generated while creating a new project.

```
urlpatterns = [
path('admin/', admin.site.urls),
]
```

It can be easily accessed by after login from the admin panel, lets run the server **python manage.py runserver** and access it through the **localhost:8000/admin**.

A login form will be displayed, see the below.

Log in   Django site admin 🛛 🗙	+
	ocalhost:8000/admin/logi 🛛 110% 🛛 🕶 💟 🚮 🏠 🔍 Search
	Django administration
	Username:
	Password:
	Log in

To login, first create admin (super user) user and provide password as we did here:

PS D:\Django@7.30AM\FirstProject> python manage.py createsuperuser Username (leave blank to use 'lenovo'): Virat Email address: virat@gmail.com Password: Password (again): This password is too common. Bypass password validation and create user anyway? [y/N]: y Superuser created successfully.

Super user is created successfully, now login.

**Note:** Now storing these credentials in to one table which name as "**auth\_user**" table.

27.0.0.1:5858/admin/login/?next=/admin/			
Django administration			
Username:			
Virat			
Password:			
······			
Log in			

It shows a home page after successfully login, see below.

→ C (1) 127.0.0.1:5858/admin/			ञ 🔍 🖻 🖈 🔲 💿 🗄
Django administration		WELCOME, <b>VIRAT</b> . <u>VIEW</u>	SITE / CHANGE PASSWORD / LOG OUT
Site administration			
AUTHENTICATION AND AUTHORIZATION		Recent actions	
Groups	🕂 Add 🛛 🥜 Change		
Users	🕂 Add 🛛 🥜 Change	My actions	
		None available	

It is an admin dashboard that provides facilities like: creating groups and users. It also used to manage the models.

#### Register Django Model

- By default our application models related tables are not loaded into admin site.
- If you want to load our model related tables on admin site then register our models with admin site.
- To load our models with admin site, open "admin.py" file which is available inside our application name and follow the below procedure,

### **Procedure:**

- 1. Import the admin module. (it is available by default)
- 2. Import the our required userdefind models here.
- 3. Create the user defined admin class by using predefined admin class like "ModelAdmin".
- 4. Register our model class names and user defined admin class names with admin site.

To register model in **admin.py** file. Use the **admin.site.register()** method and pass the Model name. See the example.

## // admin.py

from django.contrib import admin

from myapp.models import Employee

admin.site.register(Employee) # Employee is registered

Login again and see, it has **employee** object.

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Site adminis	tration		
AUTHENTICATION	N AND AUTHORIZATION		Recent actions
Groups	+ Add	🥜 Change	
Users	+ Add	🥜 Change	My actions
			None available
МҮАРР			
Employees	+ Add	/ Change	

It provides auto generated interface to create new model object. Like, if i click on **add**, it renders a form with all the attributes provided in the model class.

For example, our model class contains the following code.

## // models.py

```
from django.db import models
class Employee(models.Model):
    eid = models.CharField(max_length=20)
    ename = models.CharField(max_length=100)
    econtact = models.CharField(max_length=15)
    class Meta:
        db_table = "employee"
```

The auto generated form will be based on the model. We don't need to write HTML to create form. The form looks like this:

Home > Myapp > Employees	› Add employee	
Add employee		
Eid:		
Ename:		
Econtact:		
	Save and add another	Save and continue editing SAVE

Lets add an employee by providing details and click on save button.

Home > Myapp > Employees	› Add employee			
Add employee				
Eid:	21			
Ename:	Sohan			
Econtact:	1234567891			
		Save and add another	Save and continue editing	SAVE
		oure and add another	Care and continue carting	Chill L

After saving, record is stored into the database table, see the below MySQL table.

Using this admin dashboard, we can update and delete record also.