Django By Surendra Kumar Panda

Day: 12
Date: 26/05/2024
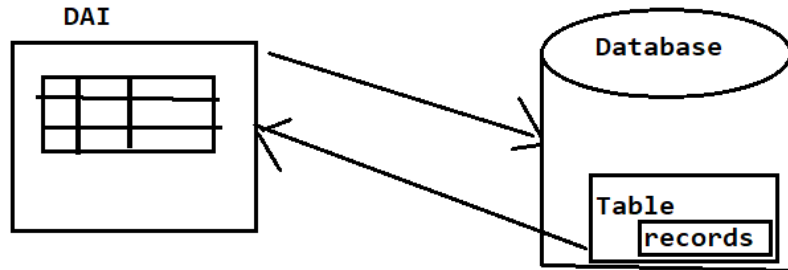..

P011:

Problem Statement: Display all the records in tabular in the Django Admin Interface(DAI).

```
Records are present inside database table
Task :: Display all the records in the DAI
```


All steps

Step 1: Common steps

Step 2: Database configurations

Step 3: Define model then mak migrations, migrate command then create superuser.

Step 4: Write the code to display records in DAI inside views.py.

Step 5: Login into DAI, then check records.

How to display table inside DAI
- ❖ Go to admin.py file
- ❖ Create a ModelAdmin class and must be child class of admin.ModelAdmin.
- ❖ The recommended name is ModelnameAdmin
- ❖ Inside ModelAdmin class define a list_display variable, inside this mention column name based on the requirement. You can display either 1 column or more than 1.

admin.py

```python
from django.contrib import admin
from .models import Electronics
# Register your models here.
class ElectronicsAdmin(admin.ModelAdmin):
    list_display=('id','name','brand','price')


admin.site.register(Electronics,ElectronicsAdmin)
```

```
from django.contrib import admin
from .models import Electronics
# Register your models here.
class ElectronicsAdmin(admin.ModelAdmin):
    list_display=('id','name','brand','price')

admin.site.register(Electronics,ElectronicsAdmin)
```

Model

list of table column names

pre-defined variable

ModelAdmin class

It will register model and modeladmin so that it will display iside DAI

```
admin.site.register(Electronics,ElectronicsAdmin)
```

DAIAPP

Electronicss   ✚ Add   ✏ Change

Select electronics to change   ADD ELECTRONICS ✚

Action: [--------- ▾] [Go]   0 of 3 selected

☐	ID	NAME	BRAND	PRICE
☐	4	Mobile	Samsung	75000.0
☐	3	Water Heater	Kent	2100.0
☐	1	Fan	USHA	2399.0

3 electronicss

P012:

By using admin.site.resiter() we can register our model and modeladmin.

Is there any other way to register model and modeladmin?

Ans: Yes, by using decorator.

Problem Statement: Register model and modeladmin through decorator.

All steps.

Steps are same with P011

admin.py

```
from django.contrib import admin
from .models import Electronics
# Register your models here.


@admin.register(Electronics)
class ElectronicsAdmin(admin.ModelAdmin):
    list_display=('id','name','brand','price')
```

Geeting the parameters from URL in django:

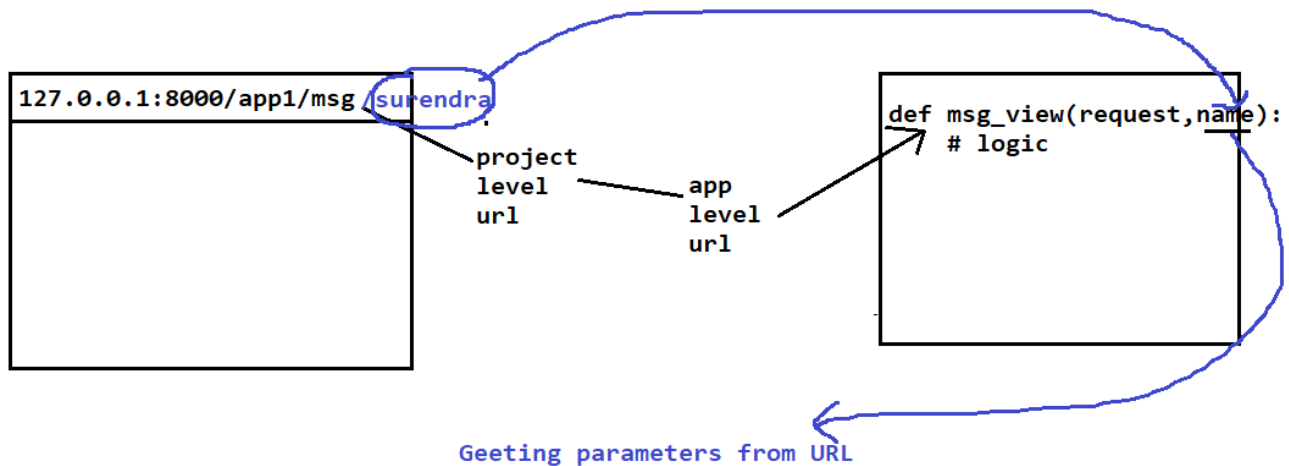Parameters : Parameters are local variables they are used to capture the values.


```
def fun(a,b):
    print(a+b)

fun(23,33)
```

Parameters/
local varaibles

Arguments

Here in the case the function fun have
2 required parameters. When ever we will
call fun() function we have to provide 2
argumenets.

```
127.0.0.1:8000/app1/msg/surendra
```

project
level
url

app
level
url

```
def msg_view(request,name):
    # logic
```

Geeting parameters from URL

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P013:

Problem statement: Send your name from URL to view function as a parameter then display good morning message along with name.

All steps

Step1: Common steps

Step 2: views.py

```python
from django.shortcuts import render,HttpResponse


# Create your views here.
def msg_view(request,name):
    d={'name':name}
    return render(request,'CapturedParametersApp/msg.html',d)


def add_view(request,a,b):
    add=a+b
    d={'add':add}
    return render(request,'CapturedParametersApp/add.html',d)
```
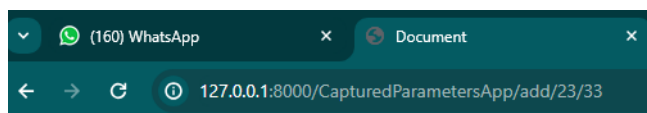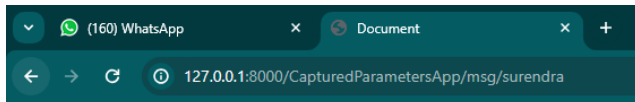
application level url

```python
from django.contrib import admin
from django.urls import path,include


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


127.0.0.1:8000/CapturedParametersApp/add/23/33

Add is 56

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Good Morning !!! surendra

TypeError at /CapturedParametersApp/msg/

msg_view() missing 1 required positional argument: 'name'

Page not found (404)

        Request Method: GET
        Request URL: http://127.0.0.1:8000/CapturedParametersApp/msg/surendra

Using the URLconf defined in `CapturedParameters.urls`, Django tried these URL patterns, in this order:

1. admin/
2. CapturedParametersApp/ msg/

The current path, `CapturedParametersApp/msg/surendra`, didn't match any of these.

You're seeing this error because you have `DEBUG` = `True` in your Django settings file. Change that to `False`, and Django will display a standard 404 page.