

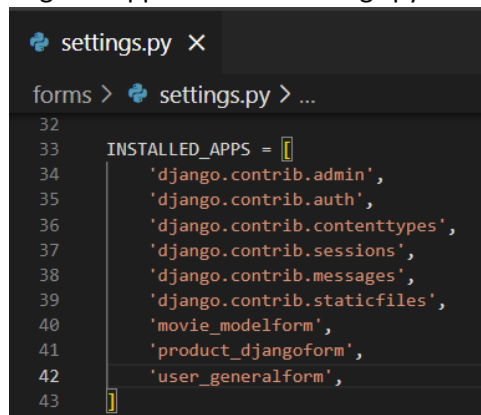
1. Create project

```
\DJANGO T417 203>django-admin startproject forms  
  
\DJANGO T417 203>cd forms  
  
\DJANGO T417 203\forms>code .
```

2. Create 3 applications

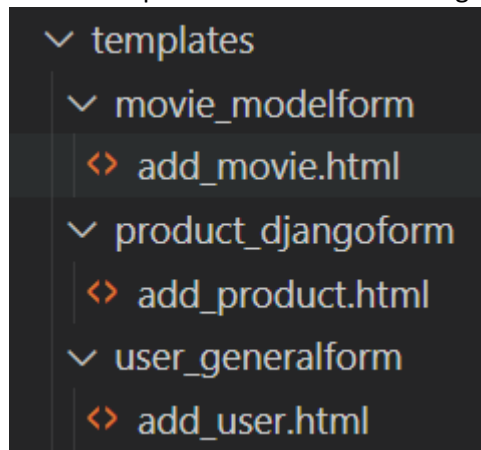
```
\forms>python manage.py startapp product_djangoform  
  
\forms>python manage.py startapp movie_modelform  
  
\forms>python manage.py startapp user_generalform
```

3. Register applications in settings.py



```
settings.py X  
forms > settings.py > ...  
32  
33 INSTALLED_APPS = [  
34     'django.contrib.admin',  
35     'django.contrib.auth',  
36     'django.contrib.contenttypes',  
37     'django.contrib.sessions',  
38     'django.contrib.messages',  
39     'django.contrib.staticfiles',  
40     'movie_modelform',  
41     'product_djangoform',  
42     'user_generalform',  
43 ]
```

4. Create templates folder with following structure

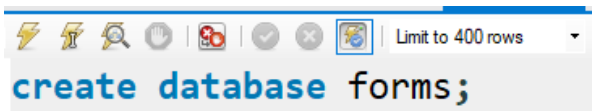


```
templates  
├── movie_modelform  
│   └── add_movie.html  
├── product_djangoform  
│   └── add_product.html  
└── user_generalform  
    └── add_user.html
```

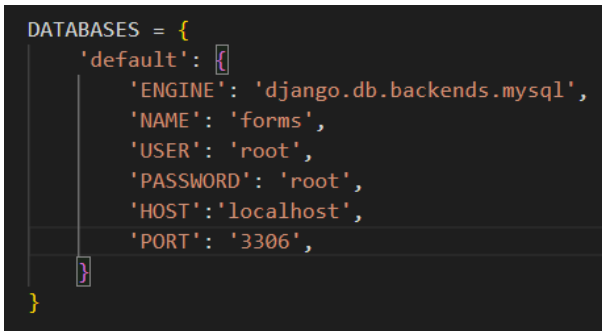
5. Register templates folder in settings.py

```
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [BASE_DIR/'templates'],  
        'APP_DIRS': True,
```

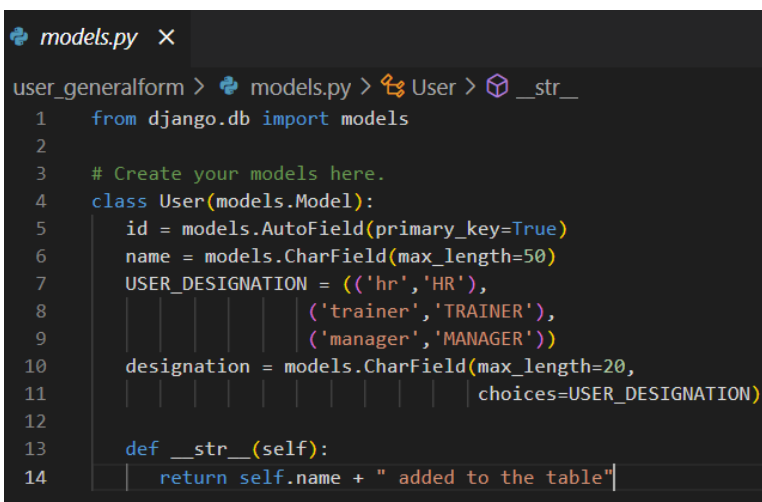
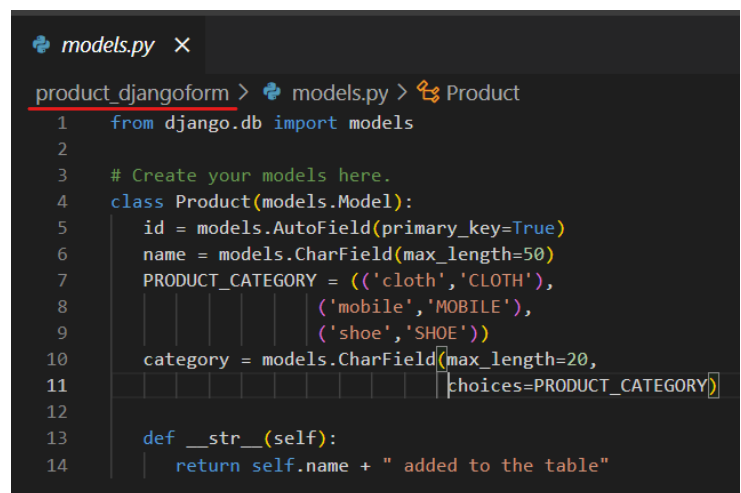
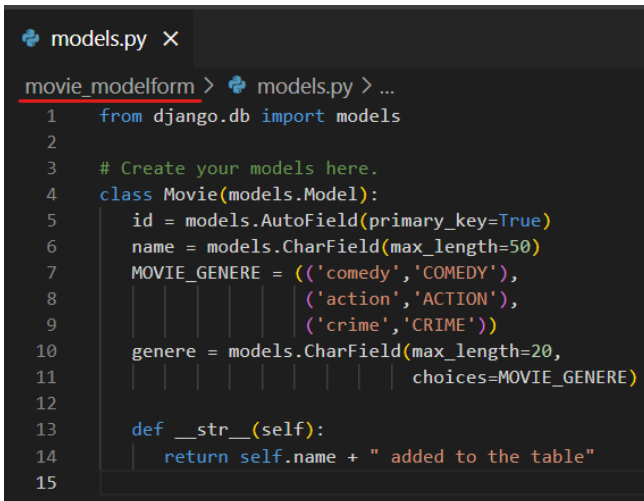
6. Create database forms



7. Register database in settings.py



8. Create model in each application



## 9. Register model of each application in admin.py

```
admin.py > admin.py > MovieAdmin
1 from django.contrib import admin
2 from movie_modelform.models import Movie
3
4 # Register your models here.
5 class MovieAdmin(admin.ModelAdmin):
6     list_display = ['id', 'name', 'genre']
7     admin.site.register(Movie, MovieAdmin)
8

admin.py > admin.py > ProductAdmin
1 from django.contrib import admin
2 from product_djangoform.models import Product
3
4 # Register your models here.
5 class ProductAdmin(admin.ModelAdmin):
6     list_display = ['id', 'name', 'category']
7     admin.site.register(Product, ProductAdmin)
8
9

admin.py > admin.py > UserAdmin
1 from django.contrib import admin
2 from user_generalform.models import User
3
4 # Register your models here.
5 class UserAdmin(admin.ModelAdmin):
6     list_display = ['id', 'name', 'designation']
7     admin.site.register(User, UserAdmin)
8
```

## 10. Makemigrations and migrate

```
C:\TEJAS KASARE (Very imp folder)\my notes\Batch Wise\DJANGO T417 203\forms>python manage.py makemigrations
Migrations for 'movie_modelform':
  movie_modelform\migrations\0001_initial.py
    - Create model Movie
Migrations for 'product_djangoform':
  product_djangoform\migrations\0001_initial.py
    - Create model Product
Migrations for 'user_generalform':
  user_generalform\migrations\0001_initial.py
    - Create model User

C:\TEJAS KASARE (Very imp folder)\my notes\Batch Wise\DJANGO T417 203\forms>python manage.py migrate
Operations to perform:
```

## 11. Check tables

- 1 • create database forms;
- 2 • use forms;
- 3 • show tables;

Result Grid	Filter Rows:	Export: Wri
Tables_in_forms		
auth_permission		
auth_user		
auth_user_groups		
auth_user_user_permissions		
django_admin_log		
django_content_type		
django_migrations		
django_session		
movie_modelform_movie		
product_djangoform_product		
user_generalform_user		

## 12. Working with django form

Since we are creating django form in Product application, bellow step are for application - **product\_djangoform**

- a. Create forms.py in product\_djangoform application

```
forms.py  X
product_djangoform > forms.py > ProductForm
1  from django import forms
2
3  class ProductForm(forms.Form):
4      name = forms.CharField(max_length=50)
5      PRODUCT_CATEGORY = (('cloth','CLOTH'),
6                          ('mobile','MOBILE'),
7                          ('shoe','SHOE'))
8      category = forms.ChoiceField(choices=PRODUCT_CATEGORY)
```

- b. Create view to display above form

```
views.py  X
product_djangoform > views.py > ...
1  from django.shortcuts import render
2  from product_djangoform.forms import ProductForm
3
4  # Create your views here.
5  def add_product(request):
6      data = {}
7      form=ProductForm()
8      data['product_form']=form
9      return render(request,'product_djangoform/add_product.html',context=data)
10
```

- c. Display form in templates > product\_djangoform > add\_product.html

```
add_product.html  X
templates > product_djangoform > add_product.html
8  <body>
9      <h1>Add Your Product</h1>
10     <form action="post">
11         {{product_form.as_p}}
12         <br>
13         <input type="submit">
14     </form>
15 </body>
16 </html>
```

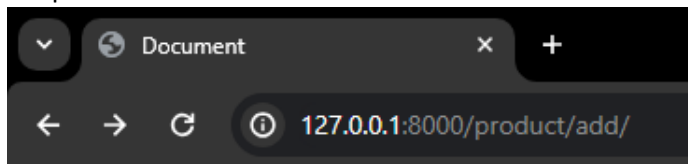
- d. Create application level url
  - i. Create product\_urls.py in product\_djangoform

```
product_urls.py ×  
product_djangoform > product_urls.py > ...  
1  from django.urls import path  
2  from product_djangoform import views  
3  urlpatterns = []  
4      path('add/', views.add_product),  
5  ]
```

- e. Register above application level url in urls.py

```
urls.py ×  
forms > urls.py > ...  
17  from django.contrib import admin  
18  from django.urls import path,include  
19  
20  urlpatterns = [  
21      path('admin/', admin.site.urls),  
22      path('product/',include('product_djangoform.product_urls'))  
23  ]  
24
```

- f. Output :



## Add Your Product

Name:

Category:

### 13. Inserting django forms data into table :

a. Add csrf\_token into form

```
add_product.html X
templates > product_djangoform > add_product.html
8 <body>
9 <h1>Add Your Product</h1>
10 <form method="post">
11     {% csrf_token %}
12     {{product_form.as_p}}
13     <br>
14     <input type="submit">
15 </form>
16 </body>
17 </html>
```

b. Collect data from form and insert into table (model) [views.py of product\_djangoform]

```
views.py X
product_djangoform > views.py > ...
2 from product_djangoform.forms import ProductForm
3 from django.http import HttpResponse
4 from product_djangoform.models import Product
5
6 # Create your views here.
7 def view_product(request):
8     return HttpResponse("Product added to the table")
9
10 def add_product(request):
11     if request.method == 'POST':
12         product_form=ProductForm(request.POST)
13         #code to check valid data
14         if(product_form.is_valid()):
15             product_model=Product()
16             product_model.name = product_form.cleaned_data['name']
17             product_model.category = product_form.cleaned_data['category']
18             product_model.save()
19             return view_product(request)
20     data = {}
21     form=ProductForm()
22     data['product_form']=form
23     return render(request,'product_djangoform/add_product.html',context=data)
24
```

c. Output

Document x +

← → ↻ 127.0.0.1:8000/product/add/

## Add Your Product

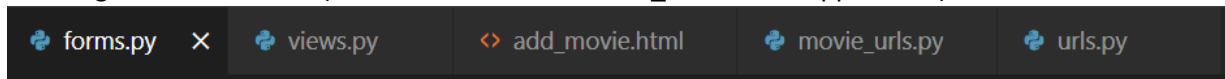
Name:

Category:

```
4 • select * from product_djangoform_product;
```

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
id	name	category				
1	iphone	mobile				
2	redmi note 5	mobile				

14. Working with model form (here we will use our movie\_modelform application)



- a. Create forms.py in movie\_modelform. Code –

```
movie_modelform > forms.py > ...
1 from django import forms
2 from movie_modelform.models import Movie
3
4 class MovieForm(forms.ModelForm):
5     class Meta:
6         model=Movie
7         # exclude=['name']
8         # fields = ('genre',)
9         fields = '__all__'
```

- b. Create view to show above model form (views.py in movie\_modelform)

```
movie_modelform > views.py > ...
1 from django.shortcuts import render
2 from movie_modelform.forms import MovieForm
3
4 # Create your views here.
5 def add_movie(request):
6     data={}
7     form=MovieForm()
8     data['movie_form']=form
9     return render(request,'movie_modelform/add_movie.html',context=data)
10
```

- c. Display form in templates > movie\_modelform > add\_movie.html

```
<body>
<h1>Add your movie </h1>
<form method="POST">
    {% csrf_token %}
    {{ movie_form.as_p }}
    <input type="submit">
</form>
</body>
```

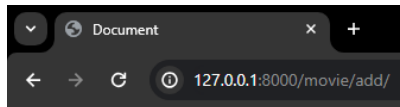
- d. Create movie\_urls.py in movie\_modelform

```
movie_modelform > movie_urls.py > ...
1 from django.urls import path,include
2 from movie_modelform import views
3
4 urlpatterns = [
5     path('add/', views.add_movie)
6 ]
```

- e. Register above movie\_urls.py in urls.py

```
forms > urls.py > ...
17 from django.contrib import admin
18 from django.urls import path,include
19
20 urlpatterns = [
21     path('admin/', admin.site.urls),
22     path('product/',include('product_djangoform.product_urls')),
23     path('movie/',include('movie_modelform.movie_urls')),
24 ]
```

- f. Visit url and check form



## Add your movie

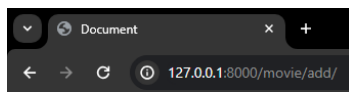
Name:

Genre:

- g. Logic to insert data into table

```
views.py
movie_modelform > views.py > ...
1 from django.shortcuts import render
2 from movie_modelform.forms import MovieForm
3 from django.http import HttpResponse
4
5 # Create your views here.
6
7 def show_movie(request):
8     return HttpResponse("Movie added to the table")
9
10 def add_movie(request):
11     if request.method=='POST':
12         movie_form = MovieForm(request.POST)
13         if(movie_form.is_valid()):
14             movie_form.save()
15             return show_movie(request)
16     data={}
17     form=MovieForm()
18     data['movie_form']=form
19     return render(request,'movie_modelform/add_movie.html',context=data)
20
```

- h. Output



## Add your movie

Name:

Genre:

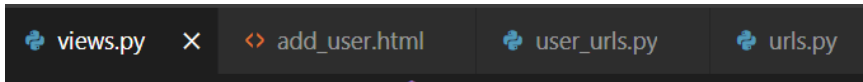
```
5 • select * from movie_modelform_movie;
```

Result Grid			Filter Rows:	Edit:	Export/Import:	Wrap Cell
id	name	genre				
1	golmaal	comedy				
2	drishyam	crime				
NULL	NULL	NULL				

- i. DONE!

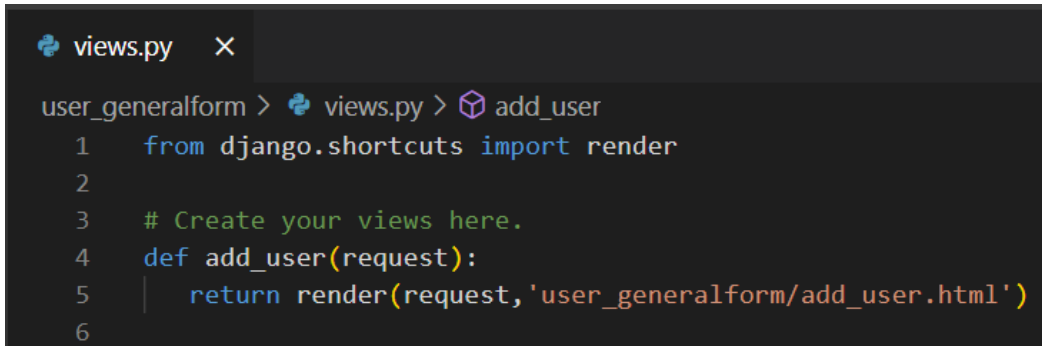


## 15. Working with general form

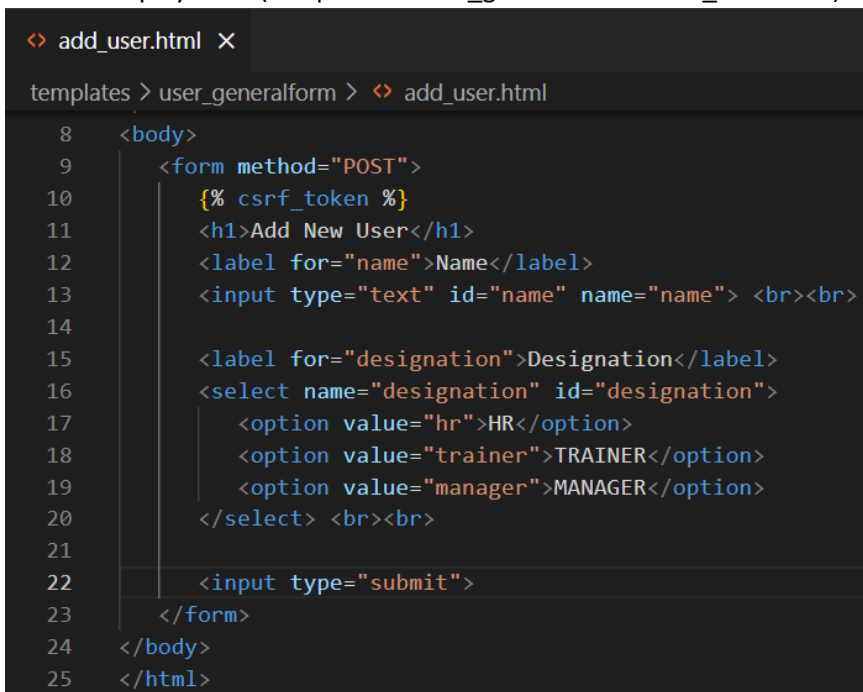


No need to create forms.py since we are creating general form

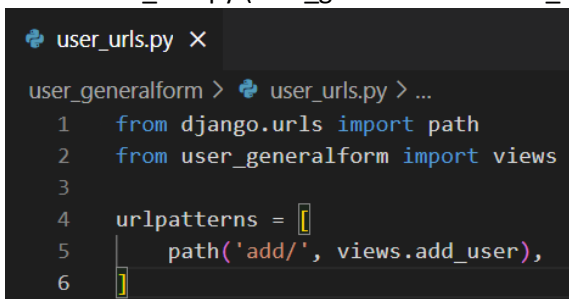
- a. Create view to display form (views.py of user\_generalform)



- b. Code to display form (templates > user\_generalform > add\_user.html)



- c. Create user\_urls.py (user\_generalform > user\_urls.py) to create application level url



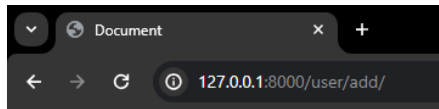
- d. Register above user\_urls.py in urls.py

```

urls.py  X
forms > urls.py > ...
15 2. Add a URL to urlpatterns: path('blog/', include('blog.urls
16 ""
17 from django.contrib import admin
18 from django.urls import path,include
19
20 urlpatterns = [
21     path('admin/', admin.site.urls),
22     path('product/',include('product_djangoform.product_urls')),
23     path('movie/',include('movie_modelform.movie_urls')),
24     path('user/',include('user_generalform.user_urls'))
25 ]
26

```

e. Check output



## Add New User

Name

Designation

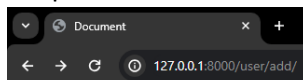
f. Code to insert data into table (update views.py)

```

views.py  X
user_generalform > views.py > ...
1  from django.shortcuts import render
2  from django.http import HttpResponse
3  from user_generalform.models import User
4
5  # Create your views here.
6  def show_user(request):
7      return HttpResponse("User added to the table")
8
9  def add_user(request):
10     if request.method == 'POST':
11         user_name=request.POST['name']
12         user_designation=request.POST['designation']
13         user=User.objects.create(name=user_name,designation=user_designation)
14         user.save()
15         return show_user(request)
16     return render(request,'user_generalform/add_user.html')
17

```

g. Output



## Add New User

Name

Designation

6 • select \* from user\_generalform\_user;

Result Grid			
Filter Rows:			
	id	name	designation
1	1	tejas	trainer
2	2	raj	manager
3	3	rajat	manager
4	4	NULL	NULL

16. FORM DONE !!!!!!!!!!!!!!!!!!!!!!!!!!!!!