



ORM: QUERYSETS

```
Entry.objects\
    .filter(col="val")\
    .exclude(c2="v2")\
    .order_by("date")
```

models.py

```
class NewPersonForm(models.Model):
    name = forms.CharField(max_length=64)
    email = forms.EmailField()
```

views.py

```
class NewPersonForm(forms.Form):
    name = forms.CharField(required=True)
    email = forms.EmailField()

# urls.py has: path("create/", views.person_create),
def person_create(request):
    if request.method == "GET":
        # Is initial GET: Create a blank form
        form = NewPersonForm()
    else:
        # Is POST: Create a form based on POST data
        form = NewPersonForm(request.POST)
    if form.is_valid():
        # If valid, create a new person & redirect
        person = Person()
        person.username = form.cleaned_data["name"]
        person.email = form.cleaned_data["email"]
        person.save()
        return redirect("/thanks/")
    ctx = {"form": form}
    return render(request, "create.html", ctx)
```

TEMPLATES

variables Use “.” to access dict keys and properties and methods

```
<h2>Hi {{ user.username }}!</h2>
```

if

```
{% if age > 17 %}
    <p>You may continue.</p>
{% else %}
    <p>Too young.</p>
{% endif %}
```

for

```
{% for post in blog_posts %}
    <h2>{{ post.title }}</h2>
{% empty %}
    <em>No posts found</em>
{% endfor %}
```

extends & blocks Allows template variations: replace “block” placeholder in a base.html

```
{% extends "base.html" %}
{% block main_content %}
    <p>User: {{ user.name }}</p>
{% endblock main_content %}
```

filters `<p>Hi {{ name|upper }}</p>`

include `{% include "snippet.html" %}`

ROUTING

templates/create.html

```
from django.urls import path, include
from myapp import views
from accounts import views as a_views

urlpatterns = [
    path("/", views.welcome_page),
    path("/u/<int:uid>/", views.upage),
    include("accounts/", a_views),
]
```