Be Beautiful Front and Back

Vue.JS with Django





Who Am I?

- Andrew McCracken
- Theodo since August 2015
- Web Development ~1.5 years
- Python ~6 years

Why Vue.JS and Django?

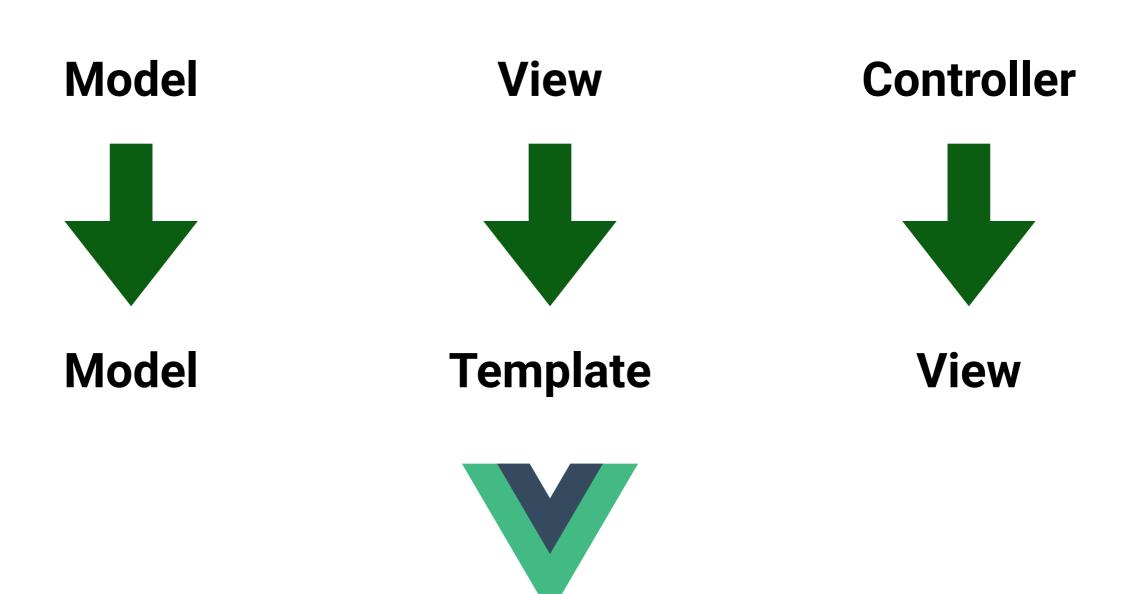
- Powerful JS framework
- Powerful backend framework
- Beautiful front-end
- Beautiful Python backend

What is Django?

- Full stack MVC framework
- Python-based
- Developed at Lawrence Journal-World, Kansas
- Public release in 2005
- · v1.9.4

What is Django?

MVC -> MTV



How to combine the two?

- Components in Django templates
- Django REST API
- Interact with API in Vue

Django Templates

```
Vue.config.delimiters = ["[[","]]"]
```

Django REST

- REST API for Django projects
- Simple to integrate
- Very well documented
- Numerous return types JSON, XML ...

Setup Endpoint

Serialise model

```
from models import JobList
from rest_framework import serializers

class JobsSerializer(serializers.HyperlinkedModelSerializer):
    class Meta:
        model = JobList
        fields = ('jobtitle', 'jobdescription', 'postdate')
```

Setup Endpoint

Set up end point

Setup Endpoint

Add API route

```
from django.conf.urls import url, include
from django.contrib import admin
from rest_framework import routers
from joblist.views import job_list, JobsViewSet

# Routers provide an easy way of automatically determining the URL conf.
router = routers.DefaultRouter()
router.register(r'jobs', JobsViewSet)

urlpatterns = [
   url(r'^admin/', admin.site.urls),
   url(r'^$', job_list),
   url(r'^api/', include(router.urls)),
]
```

Call Endpoint

- API calls
- Vue-Resource

Example

- Job board
- Post
- Job list

Benefits

- Fancy javascript frontends made easy
- Shallow learning curve
- Easily integrate into framework of choice

Difficulties

- Fair amount of set up
- Large applications can get messy
- Web-pack not easy to configure

Framework of your Choice

- <Insert your framework here>
- See you next time?



https://github.com/andrewm-theodo/djangovuejs