

# Django

first steps





# План

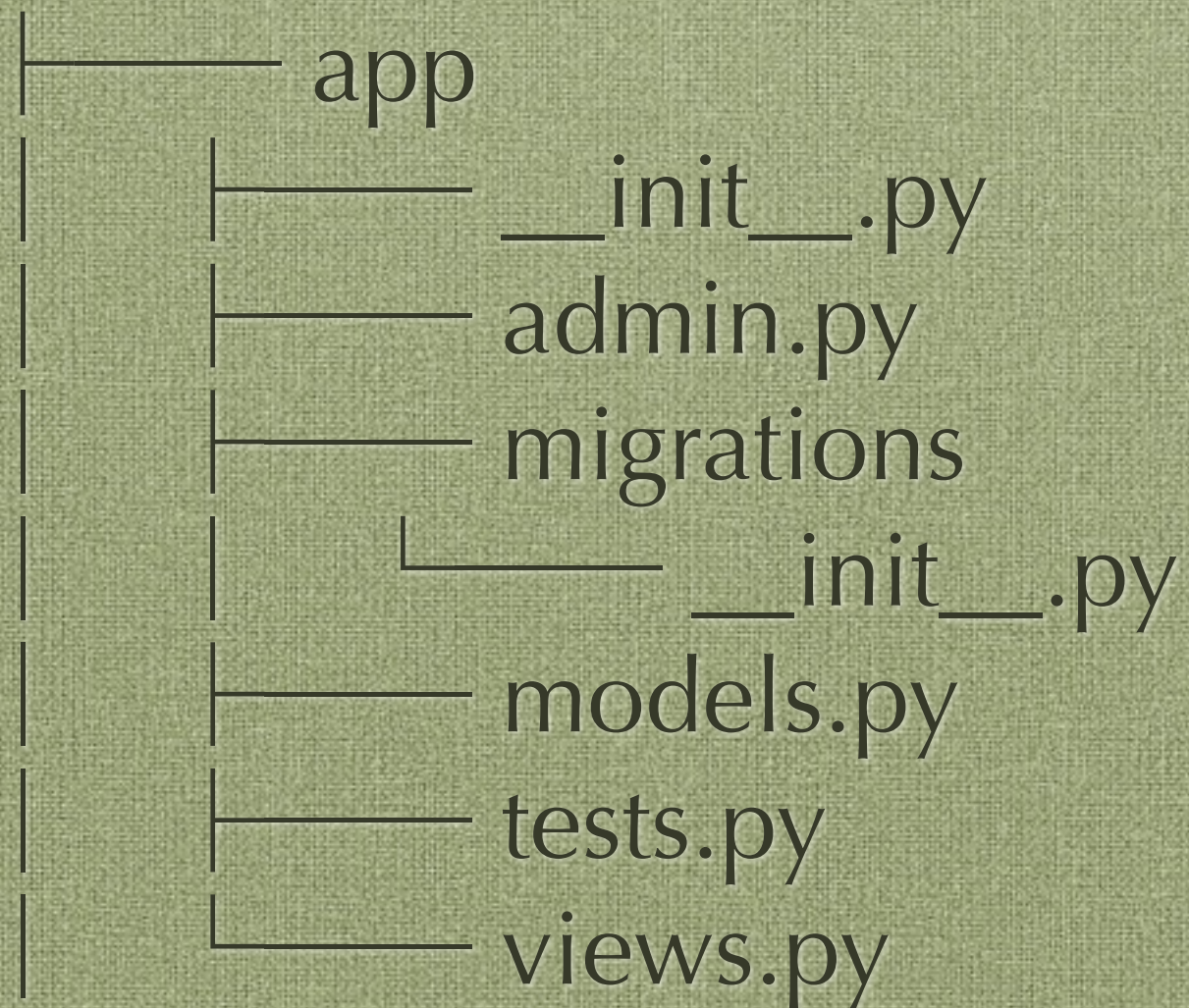
- apps и первая модель
  - MVC (MTV)
  - django.contrib
  - авторизация
  - админка
  - статика
- 
- Views
  - URLs, передача параметров
  - объект реквест
  - объект респонс





# APPS

- модульная структура django-проекта
- `manage.py startapp`





# Первая моделька и миграции

```
from django.db import models
```

```
class Course(models.Model):  
    name = models.CharField(max_length=255)  
    start_date = models.DateTimeField()
```

```
manage.py makemigrations
```

```
manage.py migrate
```





# MVC (MTV)

MVC - model view controller

MTV - model template view





# django.contrib

```
INSTALLED_APPS = (  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
)
```





# Авторизация

- `django.contrib.auth`
- `manage.py createsuperuser`
- `from django.contrib.auth.models`  
`import User`
- `from django.contrib.auth.decorators`  
`import login_required`





# Админка

- `django.contrib.admin`

- регистрация моделей

```
admin.site.register(MyModel)
```

```
@admin.register(MyModel)
```

```
class MyModelAdmin(admin.ModelAdmin):  
    pass
```





# Статика

- `django.contrib.staticfiles`
- `STATICFILES_DIRS`
- `STATIC_URL`

```
{% load static %}
```

```
{% static "relativ/path/to.file" %}
```





Больше contrib модулей  
[https://docs.djangoproject.com/  
en/1.7/ref/contrib/](https://docs.djangoproject.com/en/1.7/ref/contrib/)

comments, flatpages, messages,  
sessions





# Views

```
from django.http import HttpResponseRedirect
from django.shortcuts import render

def home(request):
    return render(request, 'index.html')
```





# URLS

patterns, include, url

```
urlpatterns = patterns('',  
    url(r'^$', home),  
    url(r'^courses/$',  
        'courses.views.courses_list'),  
    url(r'^blog/', include('blog.urls')),  
    url(r'^admin/', include(admin.site.urls)),  
)
```





# URLS параметры

```
url(r'^courses/$', courses_list),  
url(r'^course/(?P<course_id>\d+)/$',  
course_view),  
url(r'^course/(?P<course_slug>[\w-]+)/  
$', course_view),
```





# Регулярки

[https://docs.python.org/2/  
howto/regex.html](https://docs.python.org/2/howto/regex.html)

<http://regexone.com/>





# Параметры во views

```
def courses_list(request):  
    pass
```

```
def course_view(request, course_id):  
    pass
```

```
def course_view(request, course_slug):  
    pass
```





# GET параметры во views

```
http://127.0.0.1:8000/courses/?  
order=new
```

```
def courses_list(request):  
    print request.GET  
    ...
```





# request object

## Атрибуты:

- path
- method
- GET
- POST
- META
- user
- session
- ...





# response object

Параметры объекта:

- content\_type
- status

Атрибуты:

- content
- status\_code
- ...

Редактировать заголовки:

```
response[ 'header_key' ] = "header_value"
```

JsonResponse

HttpResponseRedirect





Запрос -ответ

[https://docs.djangoproject.com/en/  
1.7/ref/request-response/](https://docs.djangoproject.com/en/1.7/ref/request-response/)

