

Beginners Django Workshop

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Introduction

- Work
 - Senior Engineer at **Udemy for Business**
 - Cultural Ambassador
- Organizer
 - Startup Weekend Education
 - Data Science Meetups
 - Programming Meetups
- Hiring!
 - Check out www.udemy.com/careers/



Expectations

- Understand how web applications work
- Have written SQL queries before
- Understand HTML
- Understands REST concepts

Agenda

- Introduction to Django
- Create Development Environment
- Configure Django
- Tutorial
- Django REST Framework (BONUS)

What is Django?

- Web framework for perfectionists with deadlines!
- Free to use in commercial projects
- Open Source - <https://github.com/django/django>
- Python 3.4+
- Popular sites using Django

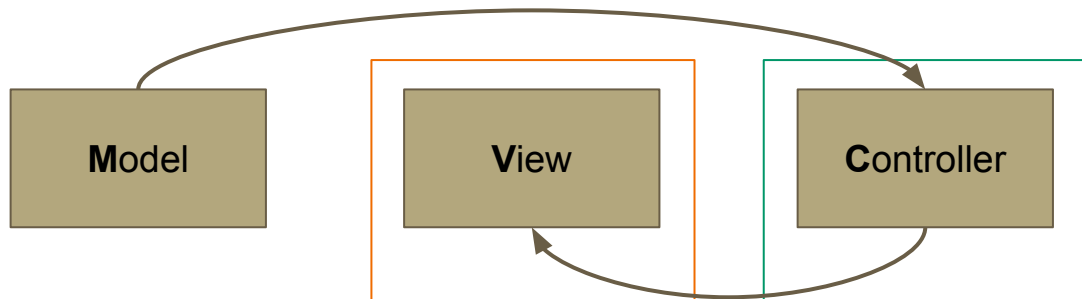


Why should I **Django** ?

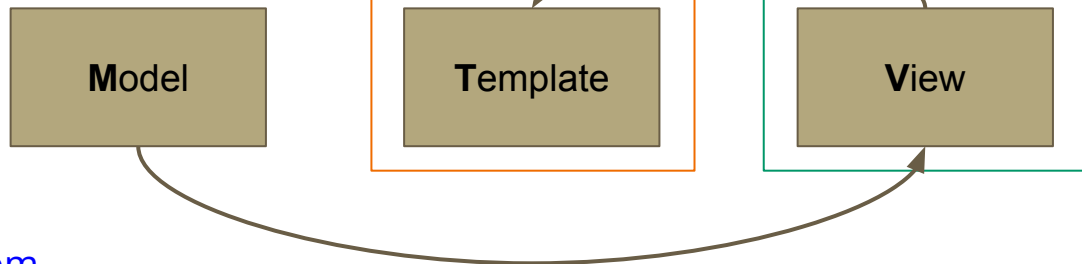
- Ridiculously Fast - *for productivity*
- Fully Loaded - *batteries included*
- Reassuringly Secure - *avoids common security mistakes*
- Scalable - *add more servers for load*
- Versatile - *can build all sorts of things*
- i18n - *built in support*
- l10n - *built in support*
- Admin Panel - *out of the box*

Design Pattern

M V C



M T V



django

Setup

Use : Python 3.x

- Anaconda for Windows Users
- Virtualenv + pip install

or

- Docker (<https://www.docker.com/get-docker>)
- Docker Compose

Prepare Development Environment

- Go to a preferred workspace
- Create a folder for the workshop
- Run `virtualenv venv`
- Run `source venv/bin/activate`
- Run `pip install Django`

Prepare Development Environment (Docker)

- Go to a preferred workspace
- Create a folder for the workshop
- Download compose file from @
github.com/allentv/pycon-django-workshop
- Run `virtualenv venv && source venv/bin/activate`
- Run `pip install docker docker-compose`
- Run `docker-compose up`
- Wait for all containers to boot up
- Open <http://localhost:8000>

Configure Django

- Run `django-admin startproject mysite`
- Run `cd mysite`
- Run `./manage.py runserver`
- Verify local website works => **127.0.0.1:8000**
- Run `./manage.py migrate`

It worked!

Congratulations on your first Django-powered page.

Next, start your first app by running `python manage.py startapp [app_label]`.

You're seeing this message because you have `DEBUG = True` in your Django settings file and you haven't configured any URLs. Get to work!

Folder Structure (mysite)

- **mysite**
 - `__init__.py`
 - `settings.py`
 - `urls.py`
 - `wsgi.py`
- `db.sqlite3`
- `manage.py`

Tutorial

- Split into groups
- Go through the official Django documentation - <https://docs.djangoproject.com>
- Work through the tutorial
- Ask Questions



REST Framework (BONUS)

- Check for active virtualenv
- Run `pip install django-rest-framework`
- Add `rest_framework` to `INSTALLED_APPS`
- Create a directory in `polls` folder called `api`
- Create the following:
 - `__init__.py`
 - `serializers.py`
 - `views.py`
 - `urls.py`

<http://www.django-rest-framework.org/tutorial/quickstart/>

Q & A



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