



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David



Web development Workshop

June-July 2022, London, UK



Week-7

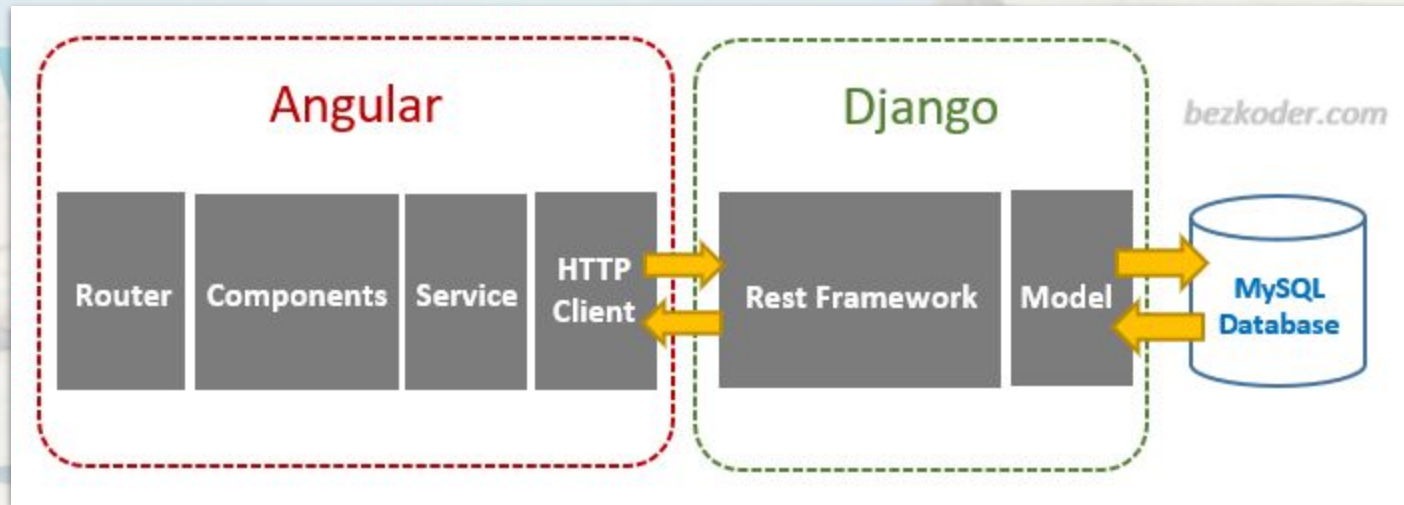
Web development Workshop

June-July 2022, London, UK

Back-end Development

- Django Framework
- Django Rest Framework

<https://github.com/web-development-workshop/uwtsd-angular-django>



Django REST framework

Home

Tutorial

API Guide

Topics

Community

Search

Previous

Next

GitHub

Django REST framework

Funding

Requirements

Installation

Example

Quickstart

Development

Support

Security

License

HackSoft

If you need a Django consultancy for your big project, or a team of experts that will make your software idea a reality - HackSoft can do that for you.

Fund Django REST framework

Install using `pip`, including any optional packages you want...

```
pip install djangorestframework
pip install markdown # Markdown support for the browsable API.
pip install django-filter # Filtering support
```

...or clone the project from github.

```
git clone https://github.com/encode/django-rest-framework
```

Add `'rest_framework'` to your `INSTALLED_APPS` setting.

```
INSTALLED_APPS = [
    ...
    'rest_framework',
]
```

If you're intending to use the browsable API you'll probably also want to add REST framework's login and logout views. Add the following to your root `urls.py` file.

```
urlpatterns = [
    ...
    path('api-auth/', include('rest_framework.urls'))
]
```

Note that the URL path can be whatever you want.

Example

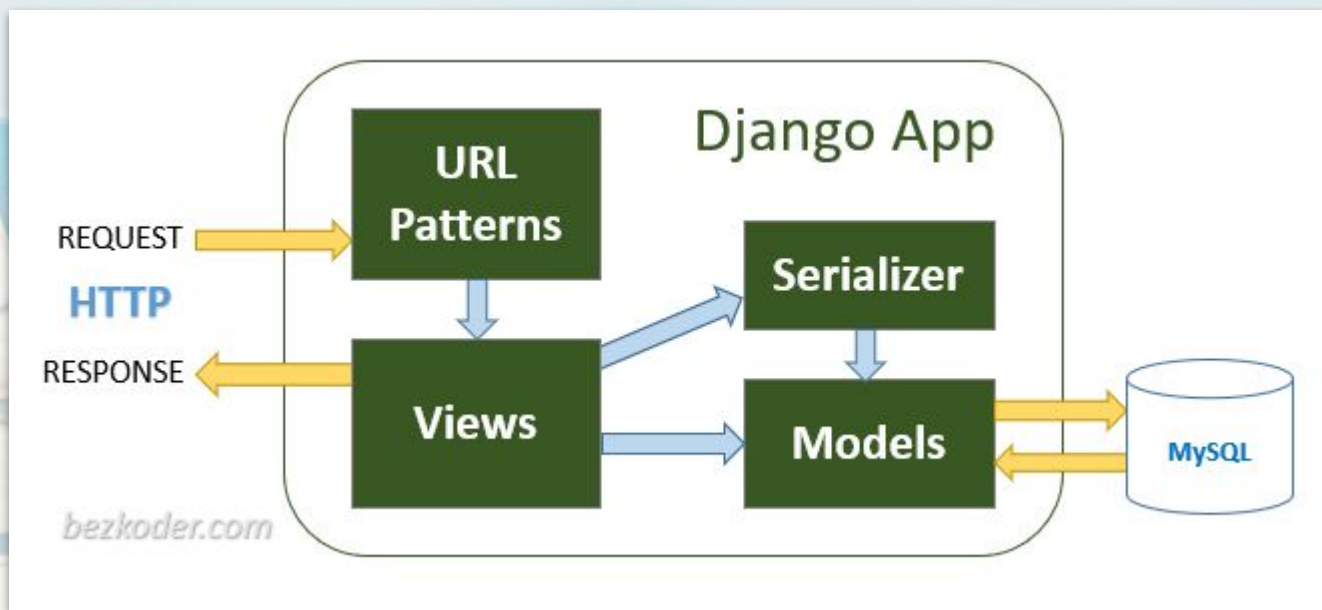
Let's take a look at a quick example of using REST framework to build a simple model-backed API.

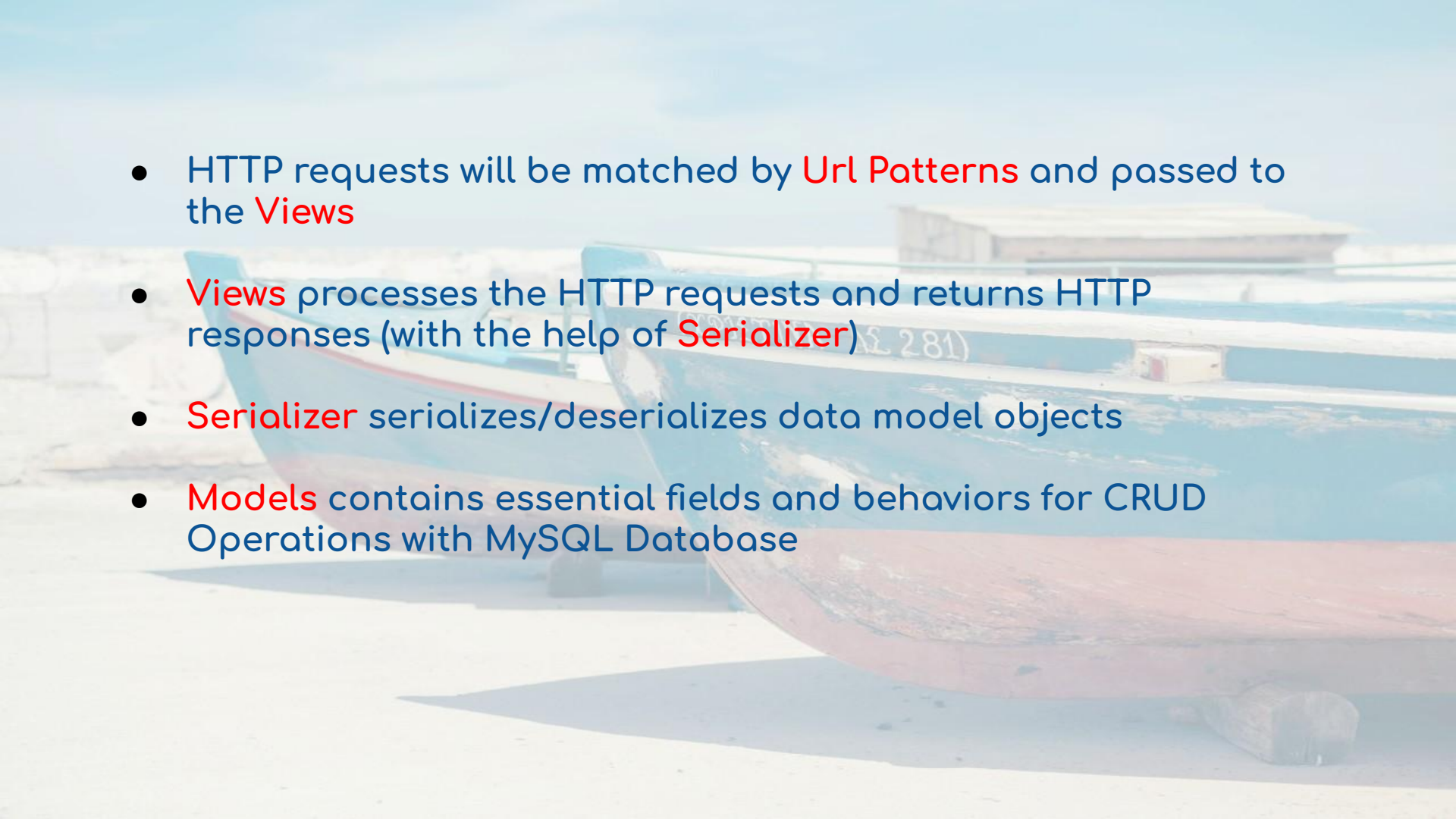
We'll create a read-write API for accessing information on the users of our project.

Any global settings for a REST framework API are kept in a single configuration dictionary named `REST_FRAMEWORK`. Start off by adding the following to your `settings.py` module:

```
REST_FRAMEWORK = {
```

<https://www.django-rest-framework.org/#installation>



- 
- A background image showing a blue and red boat on a body of water, with a building visible in the distance under a clear sky.
- HTTP requests will be matched by **Url Patterns** and passed to the **Views**
 - **Views** processes the HTTP requests and returns HTTP responses (with the help of **Serializer**)
 - **Serializer** serializes/deserializes data model objects
 - **Models** contains essential fields and behaviors for CRUD Operations with MySQL Database

Site administration

AUTH TOKEN

Tokens

[+ Add](#) [✎ Change](#)

AUTHENTICATION AND AUTHORIZATION

Groups

[+ Add](#) [✎ Change](#)

CORE

Users

[+ Add](#) [✎ Change](#)

Recent actions

My actions

None available

<http://localhost:8000/admin/>

[Home](#) > [Core](#) > [Users](#)

- Start typing to filter...
- AUTH TOKEN
- Tokens [+ Add](#)
- AUTHENTICATION AND AUTHORIZATION
- Groups [+ Add](#)
- CORE
- Users [+ Add](#)

Select user to change

[ADD USER](#) [+](#) Action: 0 of 3 selected

☐	ID	EMAIL	USERNAME	NAME
☐	1	raj@mail.com	raj	raj
☐	2	kumar@mail.com	rajkumar	rajkumar
☐	3	uwtsdadmin@uwtsd.co.uk	-	

3 users

FILTER

By is staff

[All](#)
[Yes](#)
[No](#)

By superuser status

[All](#)
[Yes](#)
[No](#)

By is active

[All](#)
[Yes](#)
[No](#)

Start typing to filter...

AUTH TOKEN

Tokens [+ Add](#)

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

CORE

Users [+ Add](#)

Change user

uwtsdadmin@uwtsd.co.uk

HISTORY

Username:

Email:

Password:

algorithm: pbkdf2_sha256 iterations: 320000 salt: cp3qkz***** hash: lZF9w0*****

Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

Personal info

Name:

Permissions

☒ Is active

☒ Is staff

☒ Superuser status

Designates that this user has all permissions without explicitly assigning them.

Imp dates

Last login:

Date: Today |

Time: Now |

Note: You are 1 hour ahead of server time.

Delete

Save and add another

Save and continue editing

SAVE

Start typing to filter...

AUTH TOKEN

Tokens

[+ Add](#)

AUTHENTICATION AND AUTHORIZATION

Groups

[+ Add](#)

CORE

Users

[+ Add](#)

Add user

First, enter a username and password. Then, you'll be able to edit more user options.

Username:

Email:

Password:

Your password can't be too similar to your other personal information.

Your password must contain at least 8 characters.

Your password can't be a commonly used password.

Your password can't be entirely numeric.

Password confirmation:

Enter the same password as before, for verification.

[Save and add another](#)[Save and continue editing](#)[SAVE](#)

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rajkumarsakthivel

b64be16 30 minutes ago 1 commit



backend

wip

30 minutes ago



frontend

wip

30 minutes ago

Help people interested in this repository understand your project by adding a README.

[Add a README](#)

About



uwtsd-angular-django

0 stars

2 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages



Octofree



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HELLO STUDENTS

WELCOME TO UWTSD

UWTSD is celebrating our Bicentenary which commemorates the laying of the foundation stone for St David's College, Lampeter on 12 August 1822. Throughout the year, events and activities will be held across our campuses to celebrate the University's role as the birthplace of higher education in Wales.

[JOIN US NOW!](#)



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The University of Wales Trinity Saint David (UWTSD) was formed on 18 November 2010 through the merger of the University of Wales Lampeter and Trinity University College Carmarthen, under Lampeter's Royal Charter of 1828. On the 1 August 2013, Swansea Metropolitan University became part of UWTSD.

Hours

Monday - Friday: 07:00 AM - 13:00 PM
Saturday - Sunday: 09:00 AM - 15:00 PM

Location

Recreio dos Bandeirantes,
Rio de Janeiro - RJ, 22795-008, Brazil

Book Now

010-020-0340
090-080-0760



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LET'S GET IN TOUCH

YOURNAME...*



YOUR EMAIL...

SUBJECT...*

YOUR MESSAGE...

SEND MESSAGE NOW

Phone Number

010-020-0340

Email Address

info@meeting.edu

Street Address

Rio de Janeiro - RJ,
22795-008, Brazil

Website URL

www.meeting.edu



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LOGIN

Email



Password



LOGIN



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REGISTER



REGISTER

References:

Books & Videos:

<https://www.feldroy.com/books/two-scoops-of-django-3-x>

<https://www.youtube.com/watch?v=PtQiiknWUcI>

<https://www.youtube.com/watch?v=o0XbHvKxw7Y>

<https://www.youtube.com/watch?v=c708Nf0cHrs>

References:

<https://devhints.io/mysql>

<https://www.mysql.com/downloads/>

<https://dev.mysql.com/doc/refman/8.0/en/installing.html>

<https://www.python.org/>

<https://docs.djangoproject.com/en/4.0/howto/windows/>

<https://docs.djangoproject.com/en/4.0/>

<https://sequel-ace.com/>

<https://www.heidisql.com/>

<https://github.com/web-development-workshop/uwtsd-angular-django>