

REST APPLICATION

The scope of this project was to develop a backend function for REST application using:

- Python
- Django
- Django REST Framework
- Mysql Connector

Server implements HTTP methods:

GET (/movies): returns list of all movies

POST (/movies): creates new movie based on data from form and insert data into the database

GET (/movies/{id}): returns information about movie with the given id

PUT (/movies/{id}): changes data about movie with the given id

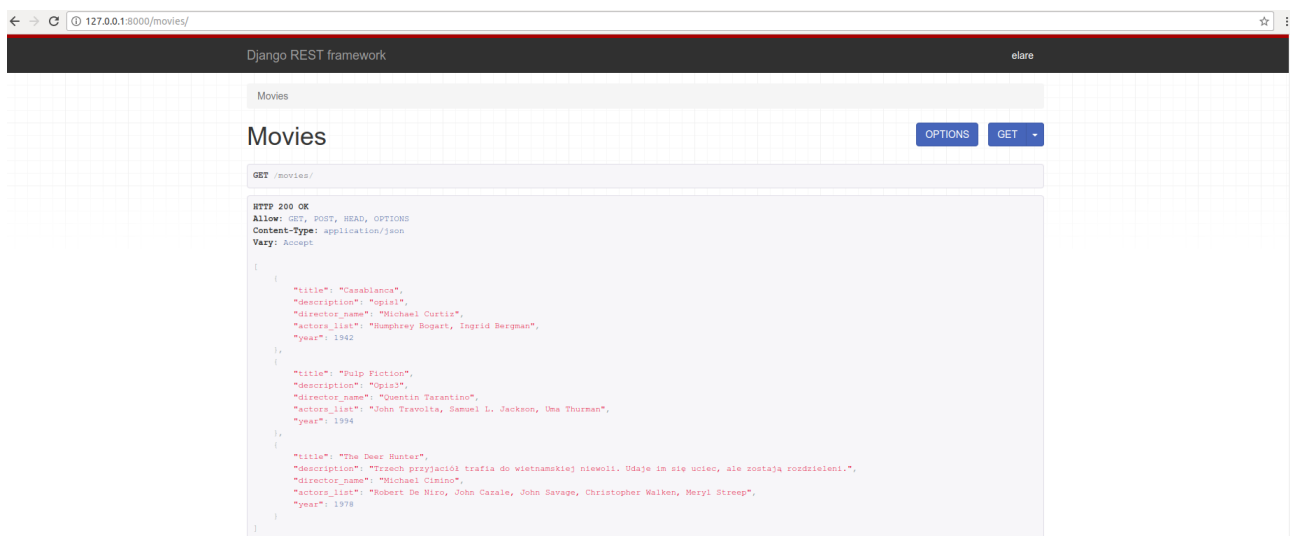
DELETE(/movies/{id}): deletes movie with the given id

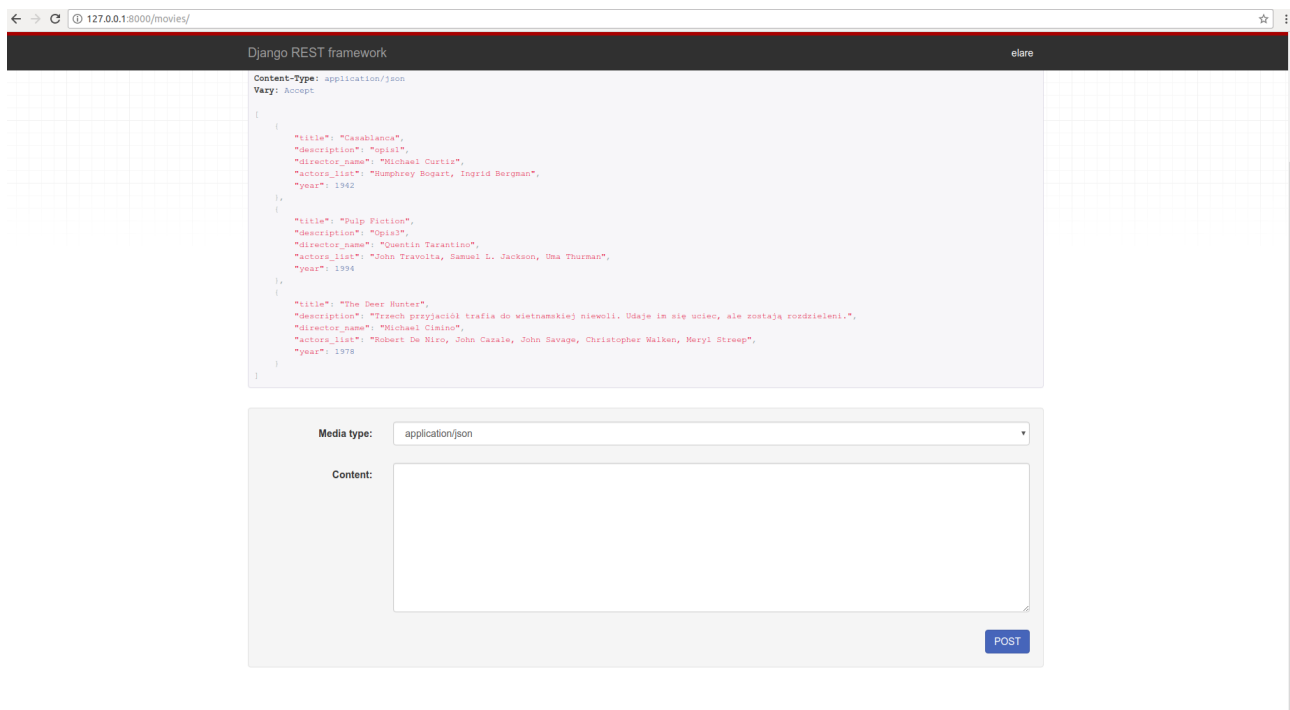
After you run server in console (python manage.py runserver) you can use application:

- 1) REST Application (<http://127.0.0.1:8000/movies/>)
- 2) Django administration (<http://127.0.0.1:8000/admin/>)

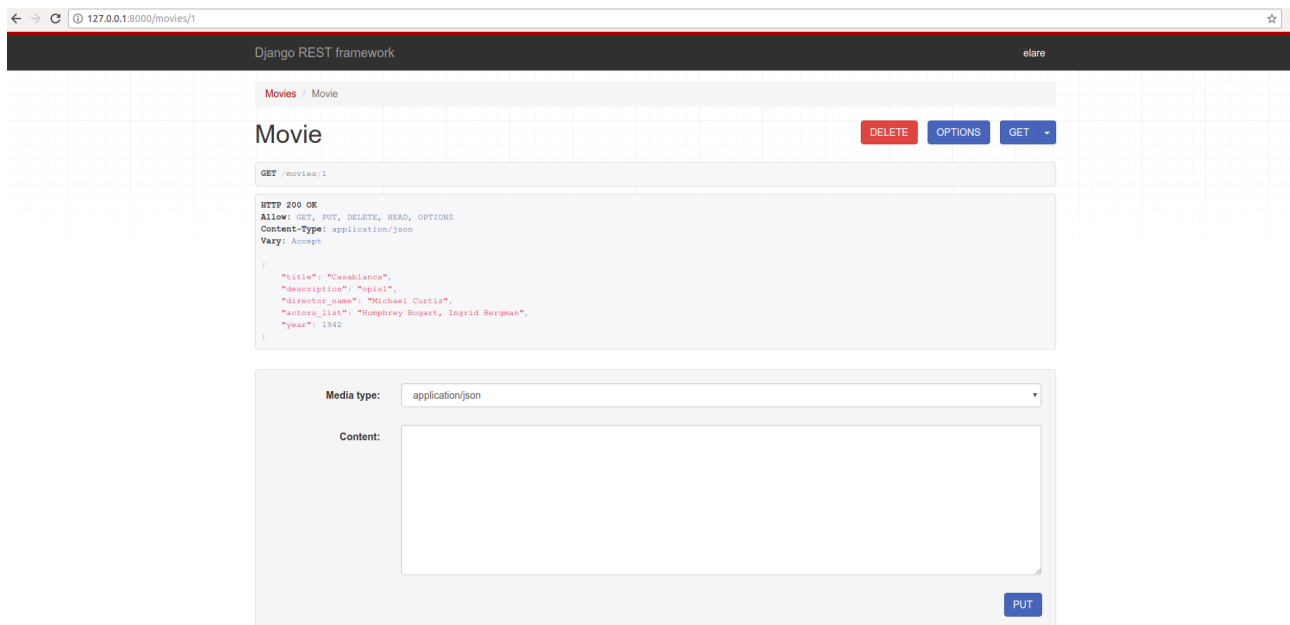
REST Application

Movies view contains GET and POST methods:



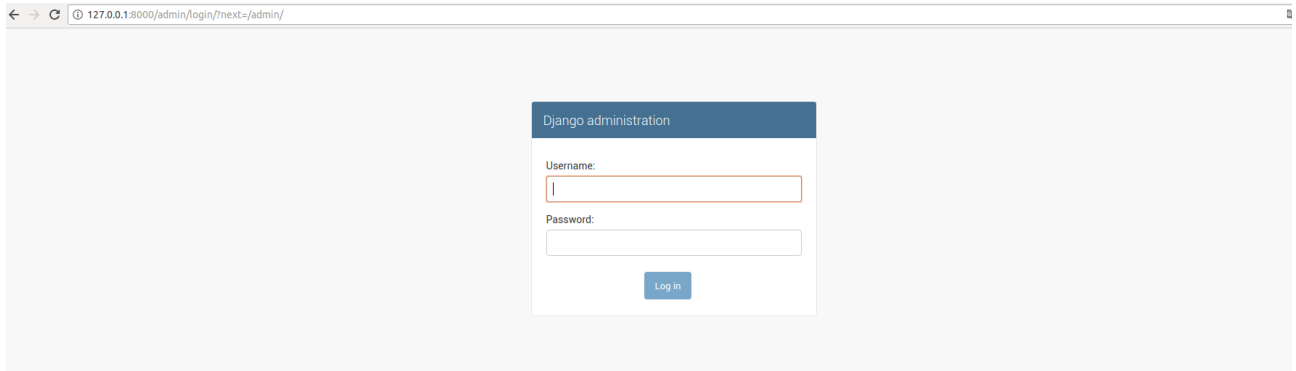


Movie view (with the given id) contains GET, PUT and DELETE methods:



Django Administration

Login to Django administration:



← → 127.0.0.1:8000/admin/login/?next=/admin/

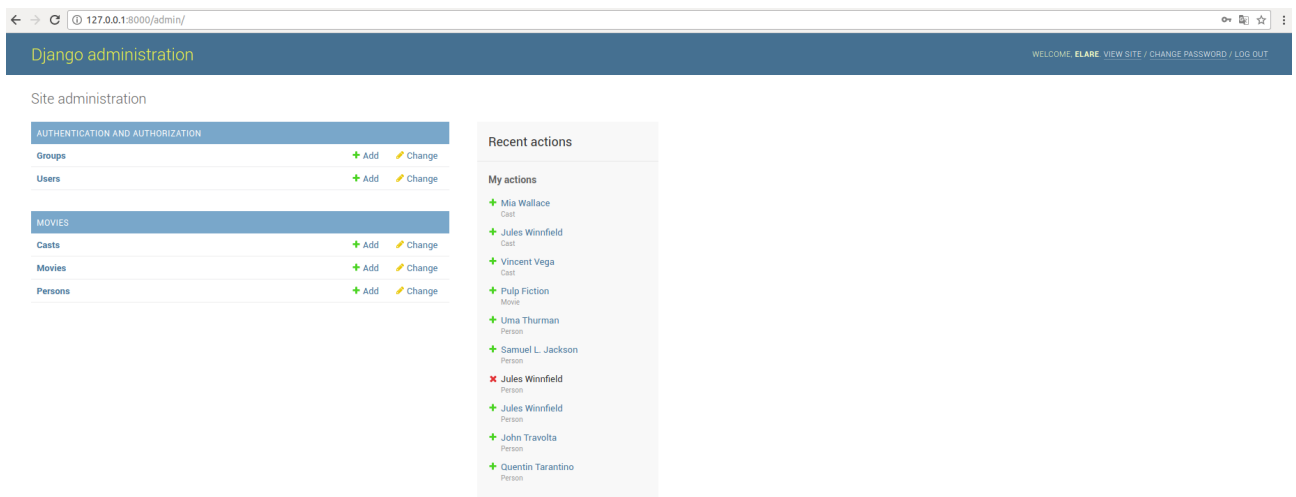
Django administration

Username:

Password:

Log in

View after login:



← → 127.0.0.1:8000/admin/

Django administration

WELCOME, **ELARE** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add Change

Users

+ Add Change

MOVIES

Casts

+ Add Change

Movies

+ Add Change

Persons

+ Add Change

Recent actions

My actions

+ Mia Wallace

Cast

+ Jules Winnfield

Cast

+ Vincent Vega

Cast

+ Pulp Fiction

Movie

+ Uma Thurman

Person

+ Samuel L. Jackson

Person

✖ Jules Winnfield

Person

+ Jules Winnfield

Person

+ John Travolta

Person



+ Quentin Tarantino

Person

FUNCTIONALITIES OF DJANGO ADMINISTRATION

I. Authentication and authorization

1. Add / change user

← → 127.0.0.1:8000/admin/auth/user/add/  

Django administration WELCOME, ELARE VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Users / Add user

Add user



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

Username:
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

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](#)

← → 127.0.0.1:8000/admin/auth/user/  


Django administration WELCOME, ELARE VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Users

Select user to change [ADD USER +](#)

Q [Search](#)

Action: ----- ▾ [Go](#) 0 of 1 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	elare	ela.kawczak@gmail.com			

1 user

FILTER

By staff status

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




By superuser status

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

By active

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

2. Add / change group

← → 127.0.0.1:8000/admin/auth/group/add/   


Django administration WELCOME, **ELARE** VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Groups / Add group

Add group


Name:

Permissions:


Available permissions 


Filter

- admin | log entry | Can add log entry
- admin | log entry | Can change log entry
- admin | log entry | Can delete log entry
- auth | group | Can add group
- auth | group | Can change group
- auth | group | Can delete group
- auth | permission | Can add permission
- auth | permission | Can change permission
- auth | permission | Can delete permission
- auth | user | Can add user
- auth | user | Can change user
- auth | user | Can delete user




Choose all 

Hold down "Control", or "Command" on a Mac, to select more than one.

Chosen permissions 



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

← → 127.0.0.1:8000/admin/auth/group/   

Django administration WELCOME, **ELARE** VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Groups




Select group to change

[Search](#) [ADD GROUP +](#)

0 groups

II. Movies


1. Add / change Cast



← → 127.0.0.1:8000/admin/movies/cast/add/   

Django administration WELCOME, **ELARE** VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Movies / Casts / Add cast

Add cast

Person id:  

Movie id:  

Role:

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

127.0.0.1:8000/admin/movies/cast/

Django administration

WELCOME, ELARE. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home / Movies / Casts

Select cast to change

ADD CAST +

Action:

Go

 0 of 10 selected

☐ CAST

☐ Linda

☐ Nikanor "Nick" Chevotarevich

☐ Steven Pushkov

☐ Stan

☐ Michael "Mike" Vronsky

☐ Mia Wallace

☐ Jules Winnfield

☐ Vincent Vega

☐ Ilsa Lund Laszlo

☐ Richard "Rick" Blaine

10 casts

2. Add / change Movies

Django administration

WELCOME, ELARE. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home / Movies / Movies / Add movie

Add movie

Title:

Description:

Director:

✓ +

Year:

Save and add another

Save and continue editing

SAVE

127.0.0.1:8000/admin/movies/movie/

Django administration

WELCOME, ELARE. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home / Movies / Movies

Select movie to change

ADD MOVIE +

Action:




Go

 0 of 3 selected

<input type="checkbox"/> TITLE	DESCRIPTION	DIRECTOR NAME	ACTORS LIST	YEAR
<input type="checkbox"/> The Deer Hunter	Trzech przyjaciół trafia do wietnamskiej niewoli. Udaje im się uciec, ale zostają rozdzieleni.	Michael Cimino	Robert De Niro, John Cazale, John Savage, Christopher Walken, Meryl Streep	1978
<input type="checkbox"/> Pulp Fiction	Opis3	Quentin Tarantino	John Travolta, Samuel L. Jackson, Uma Thurman	1994
<input type="checkbox"/> Casablanca	opis1	Michael Curtiz	Humphrey Bogart, Ingrid Bergman	1942

3 movies

3. Add / change Persons

← → 127.0.0.1:8000/admin/movies/person/add/   

Django administration WELCOME **ELARE** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)




Home [Movies](#) [Persons](#) [Add person](#)

Add person

First name:

Last name:

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

← → 127.0.0.1:8000/admin/movies/person/   

Django administration WELCOME **ELARE** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home [Movies](#) [Persons](#)

Select person to change [ADD PERSON +](#)

Action: Go 0 of 16 selected

<input type="checkbox"/>	PERSON
<input type="checkbox"/>	Meryl Streep
<input type="checkbox"/>	Christopher Walken
<input type="checkbox"/>	John Savage
<input type="checkbox"/>	John Cazale
<input type="checkbox"/>	Robert De Niro
<input type="checkbox"/>	Michael Cimino
<input type="checkbox"/>	Uma Thurman
<input type="checkbox"/>	Samuel L. Jackson
<input type="checkbox"/>	John Travolta
<input type="checkbox"/>	Quentin Tarantino
<input type="checkbox"/>	John Fiedler
<input type="checkbox"/>	Martin Balsam
<input type="checkbox"/>	Sidney Lumet
<input type="checkbox"/>	Ingrid Bergman
<input type="checkbox"/>	Humphrey Bogart
<input type="checkbox"/>	Michael Curtiz

16 persons