1. Vytvoření nového projektu v PyCharm
2. Pravé tlačítko myši na složce projektu a Open in terminal.
3. Instalace Django: pip install django
4. File / Settings / Project Django / Project Interpreter / - kontrola balíčků
5. Vytvoření nového projektu:

(django) C:\Users\ml\PycharmProjects\django>django-admin startproject movies .

Konfigurace projektu - settings.py

1. Změnit časovou zónu:

TIME\_ZONE = **'Europe/Prague'**

1. Nastavit cestu pro statické soubory:

STATIC\_URL = '/static/'

**STATIC\_ROOT = os.path.join(BASE\_DIR, 'static')**

Nastavení databáze a spuštění webserveru

1. V settings.py je defaultně nastaveno SQLITE3

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.sqlite3',

'NAME': os.path.join(BASE\_DIR, 'db.sqlite3'),

}

}

1. Spuštění migrace

(django) C:\Users\ml\PycharmProjects\django>python manage.py migrate

1. Spuštění webserveru

(django) C:\Users\ml\PycharmProjects\django>python manage.py runserver

1. Ověření v prohlížeči - kliknutí na odkaz

Vytvoření samostatné aplikace

1. Vytvoření aplikace filmoteka:

(django) C:\Users\ml\PycharmProjects\django>python manage.py startapp filmoteka

1. Zařazení aplikace v settings.py:

INSTALLED\_APPS = [  
 'django.contrib.admin',  
 'django.contrib.auth',  
 'django.contrib.contenttypes',  
 'django.contrib.sessions',  
 'django.contrib.messages',  
 'django.contrib.staticfiles',  
 **'filmoteka'**,  
]

Vytvoření modelu

<https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django/Models>

<https://docs.djangoproject.com/en/3.0/ref/models/fields/>

**from** django.db **import** models  
**from** django.utils **import** timezone  
**from** django.urls **import** reverse *# Used to generate URLs by reversing the URL patterns***class** Film(models.Model):  
 *# Fields* title = models.CharField(max\_length=200, verbose\_name=**"Title"**)  
 plot = models.TextField(blank=**True**, null=**True**, verbose\_name=**"Plot"**)  
 release\_date = models.DateField(default=timezone.now, help\_text=**"Please use the following format: <em>YYYY-MM-DD</em>."**, verbose\_name=**"Release date"**)  
 runtime = models.IntegerField(blank=**True**, verbose\_name=**"Runtime"**)  
 rate = models.FloatField(default=5.0, verbose\_name=**"Rate"**)  
 poster = models.ImageField(blank=**True**, null=**True**, verbose\_name=**"Poster"**)  
  
 *# Metadata* **class** Meta:  
 ordering = [**"-release\_date"**, **"title"**]  
  
 *# Methods* **def** \_\_str\_\_(self):  
 *"""String for representing the MyModelName object (in Admin site etc.)."""* **return** self.title  
  
 **def** get\_absolute\_url(self):  
 *"""Returns the url to access a particular instance of Film."""* **return** reverse(**'film-detail'**, args=[str(self.id)])

(django) C:\Users\ml\PycharmProjects\django>python -m pip install Pillow

(django) C:\Users\ml\PycharmProjects\django>python manage.py makemigrations filmoteka

(django) C:\Users\ml\PycharmProjects\django>python manage.py migrate filmoteka

Django admin

<https://docs.djangoproject.com/en/1.8/ref/contrib/admin/>

1. Úprava souboru filmoteka/admin.py

**from** django.contrib **import** admin  
**from** .models **import** Film  
  
admin.site.register(Film)

1. Vytvoření superuživatele

(django) C:\Users\ml\PycharmProjects\django>python manage.py createsuperuser

Username (leave blank to use 'ml'): admin

Email address: admin@admin.com

Password:

Password (again):

The password is too similar to the username.

This password is too short. It must contain at least 8 characters.

This password is too common.

Bypass password validation and create user anyway? [y/N]: y

Superuser created successfully.

1. Přihlášení do administrace

<http://127.0.0.1:8000/admin/>

Validace

<https://docs.djangoproject.com/en/3.0/ref/models/instances/#validating-objects>