

Django frameworkining settings.py fayli bilan tanishamiz || 2-dars

Bu maqolada sizlar bilan **settings.py** fayli bilan tanishamiz, bu faylni avvalgi darsda ham ta'kidlab o'tgan edik. Bugun bu fayldagi har bir kodning vazifasini bilib olasiz.



Django 2-dars

Bu faylni ishga tushuruvchi fayl bu [manage.py](#). [manage.py](#) faylining 9-qatorida settings fayli ko'rsatilgan.

```
os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'library.settings')
```

Biz CMD ga `runserver` buyrug'ini berganimizda [manage.py](#) settings faylini ishga tushuradi.

[settings.py](#) ning tuzilishi(version:3.1):

```
"""
Django settings for library project.

Generated by 'django-admin startproject' using Django 3.1.

For more information on this file, see
https://docs.djangoproject.com/en/3.1/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/3.1/ref/settings/
"""

from pathlib import Path
```

```
# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve(strict=True).parent.parent

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.1/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'i8cw-a79nslxp8dz)&y_ei=%u(zu3^tqmsf)qwz9^n-!hqj8j'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'library.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'library.wsgi.application'

# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases
```

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}

# Password validation
# https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME':
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator'
    },
    {
        'NAME':
'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME':
'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]

# Internationalization
# https://docs.djangoproject.com/en/3.1/topics/i18n/

LANGUAGE_CODE = 'en-en'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_L10N = True

USE_TZ = True

# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/

STATIC_URL = '/static/'
```

Sizga ushbu faylning yuqori qismida komentga siz uchun dokumentatsiya linkini qoldirgan o'qib chiqishni maslahat beraman(ENG).

```
BASE_DIR = Path(__file__).resolve(strict=True).parent.parent
```

`BASE_DIR` ning vazifasi katta bo'lib u fayllar va papkalarni serverdan ro'yxatdan o'tkazishga yordam beradi. Siz `runserver` deganingizda projectingiz serverdagi turgandak ishlaydi. Serverdan ro'yxatdan o'tkazilmagan fayl va papkalarni django ishlata olmaydi(bunday fayl mavjud emas deydi).

```
SECRET_KEY = 'i8cw-a79nslxp8dz) &y_ei=%u(zu3^tqmsf)qwz9^n-!hqj8j'
```

`SECRET_KEY` ning vazifasi shundaki u prodakshinga yordam beradi va buni boshqalar bilishi taqiqlanadi.

```
DEBUG = True
```

`DEBUG` ning vazifasi shundaki agar u `True` qiymat qabul qilsa sizga xatolaringizni ko'rsatib turadi(brouzer va CMD da) agar `False` bo'lsa siz biror bir xato ish qilsangiz serverni o'sha ondayoq to'xtaydi(siz yana `runserver` qilishingizga to'g'ri keladi). Agar siz projectni ohirgacha bitirib hostga qo'ymaguningizgacha `True` tursin.

```
ALLOWED_HOSTS = []
```

`ALLOWED_HOSTS` ning vazifasi shundaki `[]` lar ichiga domen yozasiz va brouzerdan o'sha domen yozilganda sizning saytingiz chiqadi(agar siz hostga qo'ygan bo'lsangiz va host o'sha domenga ulangan bo'lsa).

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]
```

`INSTALLED_APPS` ning vazifasi django applarini ishlatish(uyg'otish). Bu mavzuga yana qaytamiz...

```
ROOT_URLCONF = 'library.urls'
```

`ROOT_URLCONF` ning vazifasi django projecti birinchi bo'lib qaysi bir URL larga asosan ishlashini belgilaydi.

```
TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
```

```
        'django.contrib.auth.context_processors.auth',
        'django.contrib.messages.context_processors.messages',
    ],
},
],
]
```

`TEMPLATES` ning vazifasi html fayllarni qaysi papkadaligini serverdan ro'yxatga o'tkazadi.(kelasi mavzularda ishlatamiz)

```
WSGI_APPLICATION = 'library.wsgi.application'
```

`WSGI_APPLICATION` ning vazifasi `get_wsgi_application()` funksiyani uyg'otish(ishga tushirish).

```
# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}
```

`DATABASES` ning vazifasi ma'lumotlarni saqlash bo'lib bunda qanday nomli faylga va nima orqali o'sha faylga tasir o'tkazishni ko'rsatadi.(postgresql, sql, va Mysql ga o'xshash malumotlar omborini ulaydi).

```
LANGUAGE_CODE = 'en-en'
```

`LANGUAGE_CODE` ning vazifasi projectning tilini aniqlab beradi. Siz en-en desangiz ingliz tilini tanlagan bo'lasiz(ikkinchi en esa buyukbritaniya shevasi). Xatto-ki o'zbek tili ham mavjud 'uz'. Tilni o'zgartirganingizda admin page va debug pagelar o'zgarganini ko'rasiz(hali beri admin pageni ko'rmagan bo'lsangiz keyinchalik o'zgartirib koring)

```
TIME_ZONE = 'UTC'
```

`TIME_ZONE` ning vazifasi serverdagi vaqtni aniqlash. `UTC` => "Universal Time Coordinated" bo'lib biz(uzb)ning vaqti `'UTC+5'`.

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/

STATIC_URL = '/static/'
```

Bu static fayllarni serverdan ro'yxatdan o'tkazadi. `Static` fayllarga html fayllardan boshqa fayllar kiradi(CSS, JS, Rasmlar...).

Xulosa: **Settings.py** fayli eng muhim fayl bo'lib django projectining eng asosiy sozlamalari turadi. Sizlar bilan Bunyodbek Abdurazzoqov bo'ldi. Rahmat hammaga.

Maqola muallifi: Bunyodbek Abdurazzoqov