

Crypto Django Project

Friday, July 1, 2022 4:20 PM

- Open Conda command prompt
- mkdir d:\Projects\Python\Crypto-django-project
- cd /d d:\Projects\Python\Crypto-django-project
- (base) d:\Projects\Python\Crypto-django-project>python --version
Python 3.8.5
- (base) d:\Projects\Python\Crypto-django-project>pip freeze
- Check if "virtualenv==20.4.6" module is in the list
- If it's not there, install it by running command : pip install virtualenv
Create virtual environment in your working directory
- Use this command : virtualenv .
- List directory to see the generated files, command : dir
- Activate and deactivate virtual environment as below

```
Administrator: Anaconda Prompt (Anaconda3)

(base) d:\Projects\Python\Crypto-django-project>dir
Volume in drive D has no label.
Volume Serial Number is C648-C80C

Directory of d:\Projects\Python\Crypto-django-project

05/07/2021  07:03 PM    <DIR>          .
05/07/2021  07:03 PM    <DIR>          ..
05/07/2021  07:03 PM             42 .gitignore
05/07/2021  07:03 PM    <DIR>          Lib
05/07/2021  07:03 PM             288 pyenv.config
05/07/2021  07:03 PM    <DIR>          Scripts
                2 File(s)              330 bytes
                4 Dir(s) 187,525,226,496 bytes free

(base) d:\Projects\Python\Crypto-django-project>Scripts\activate

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>deactivate
(base) d:\Projects\Python\Crypto-django-project>Scripts\activate
```

- Install Django using the below command : pip install Django==3.2.2

```
(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>pip install Django==3.2.2
Collecting Django==3.2.2
  Downloading Django-3.2.2-py3-none-any.whl (7.9 MB)
    |#####| 7.9 MB 6.4 MB/s
Collecting asgiref<4,>=3.3.2
  Downloading asgiref-3.3.4-py3-none-any.whl (22 kB)
Collecting pytz
  Downloading pytz-2021.1-py2.py3-none-any.whl (510 kB)
    |#####| 510 kB 6.4 MB/s
Collecting sqlparse>=0.2.2
  Downloading sqlparse-0.4.1-py3-none-any.whl (42 kB)
    |#####| 42 kB 67 kB/s
Installing collected packages: sqlparse, pytz, asgiref, Django
Successfully installed Django-3.2.2 asgiref-3.3.4 pytz-2021.1 sqlparse-0.4.1

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>pip freeze
asgiref==3.3.4
Django==3.2.2
pytz==2021.1
sqlparse==0.4.1
```

- Start a Django project in the working directory using command : django-admin startproject cryptobase

```
(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>django-admin startproject cryptobase
```

- Check if the directory is created as below, then Open the working directory in Visual Studio Code.

```
(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>dir
Volume in drive D has no label.
Volume Serial Number is C648-C80C

Directory of d:\Projects\Python\Crypto-django-project

05/07/2021  07:27 PM    <DIR>        .
05/07/2021  07:27 PM    <DIR>        ..
05/07/2021  07:25 PM             42 .gitignore
05/07/2021  07:27 PM    <DIR>        cryptobase
05/07/2021  07:25 PM    <DIR>        Lib
05/07/2021  07:25 PM             288 pyvenv.cfg
05/07/2021  07:26 PM    <DIR>        Scripts
                2 File(s)            330 bytes
                5 Dir(s)  187,459,936,256 bytes free

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>cd cryptoba
se

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>
dir
Volume in drive D has no label.
Volume Serial Number is C648-C80C

Directory of d:\Projects\Python\Crypto-django-project\cryptobase

05/07/2021  07:27 PM    <DIR>        .
05/07/2021  07:27 PM    <DIR>        ..
05/07/2021  07:27 PM    <DIR>        cryptobase
05/07/2021  07:27 PM             688 manage.py
                1 File(s)            688 bytes
                3 Dir(s)  187,459,936,256 bytes free

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>
cd ..

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>code .

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>
```

- Run Django Server using the command : python manage.py runserver

```
(base) d:\Projects\Python\Crypto-django-project\Scripts>activate

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>dir
Volume in drive D has no label.
Volume Serial Number is C648-C80C

Directory of d:\Projects\Python\Crypto-django-project

05/07/2021  07:27 PM    <DIR>        .
05/07/2021  07:27 PM    <DIR>        ..
05/07/2021  07:25 PM             42 .gitignore
05/07/2021  07:25 PM    <DIR>        cryptobase
05/07/2021  07:25 PM    <DIR>        Lib
05/07/2021  07:25 PM             288 pyvenv.cfg
05/07/2021  07:26 PM    <DIR>        Scripts
                2 File(s)            330 bytes
                5 Dir(s)  187,459,936,256 bytes free

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project>cd cryptobase

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>dir
Volume in drive D has no label.
Volume Serial Number is C648-C80C

Directory of d:\Projects\Python\Crypto-django-project\cryptobase

05/07/2021  07:27 PM    <DIR>        .
05/07/2021  07:27 PM    <DIR>        ..
05/07/2021  10:22 PM    <DIR>        cryptobase
05/07/2021  07:27 PM             688 manage.py
                1 File(s)            688 bytes
                3 Dir(s)  187,459,936,064 bytes free

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>python manage.py runserver
watching for file changes with Statelocker
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
May 07, 2021 - 22:29:21
Django version 3.2.5, using settings 'cryptobase.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
(07/May/2021 22:33:13) "GET / HTTP/1.1" 200 10697
(07/May/2021 22:33:13) "GET /static/admin/css/fonts.woff HTTP/1.1" 200 423
(07/May/2021 22:33:14) "GET /static/admin/fonts/Roboto-Bold-webfont.woff HTTP/1.1" 200 86184
(07/May/2021 22:33:14) "GET /static/admin/fonts/Roboto-Regular-webfont.woff HTTP/1.1" 200 85876
(07/May/2021 22:33:14) "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1.1" 200 85692
```

- Migrating the unapplied migrations using a separate command window : python manage.py migrate

```
(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>
python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>
```

- Create an app in the working directory folder : python manage.py startapp crypto

- Crypto API and documentations

- Crypto API Key : 1f23fb880bc9b0e7e7af7aea4d2730acc5f2653c454947782b825c3fe82683e8
- Install request package

```
(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>pip freeze
asgiref==3.3.4
Django==3.2.2
pytz==2021.1
sqlparse==0.4.1

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>pip install requests
Collecting requests
  Downloading requests-2.25.1-py2.py3-none-any.whl (61 kB)
    | 61 kB 155 kB/s
Collecting idna<3,>=2.5
  Downloading idna-2.10-py2.py3-none-any.whl (58 kB)
    | 58 kB 136 kB/s
Collecting urllib3<1.27,>=1.21.1
  Downloading urllib3-1.26.4-py2.py3-none-any.whl (153 kB)
    | 153 kB 168 kB/s
Collecting chardet<5,>=3.0.2
  Downloading chardet-4.0.0-py2.py3-none-any.whl (178 kB)
    | 178 kB 149 kB/s
Collecting certifi>=2017.4.17
  Downloading certifi-2020.12.5-py2.py3-none-any.whl (147 kB)
    | 147 kB 168 kB/s
Installing collected packages: urllib3, idna, chardet, certifi, requests
Successfully installed certifi-2020.12.5 chardet-4.0.0 idna-2.10 requests-2.25.1 urllib3-1.26.4

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>pip freeze
asgiref==3.3.4
certifi==2020.12.5
chardet==4.0.0
Django==3.2.2
idna==2.10
pytz==2021.1
requests==2.25.1
sqlparse==0.4.1
urllib3==1.26.4

(Crypto-django-project) (base) d:\Projects\Python\Crypto-django-project\cryptobase>
```