

SETTING UP A DJANGO WEB APPLICATION

1.)

Install Virtual Environment

```
Command Prompt
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Thank You>cd D:\Schoolings\CSIT327\InformationManagement_Project

C:\Users\Thank You>D:

D:\Schoolings\CSIT327\InformationManagement_Project>py -m pip install virtualenv
Requirement already satisfied: virtualenv in c:\users\thank you\appdata\local\programs\python\python312\lib\site-packages (20.26.6)
Requirement already satisfied: distlib<1,>=0.3.7 in c:\users\thank you\appdata\local\programs\python\python312\lib\site-packages (from virtualenv) (0.3.8)
Requirement already satisfied: filelock<4,>=3.12.2 in c:\users\thank you\appdata\local\programs\python\python312\lib\site-packages (from virtualenv) (3.16.1)
Requirement already satisfied: platformdirs<5,>=3.9.1 in c:\users\thank you\appdata\roaming\python\python312\site-packages (from virtualenv) (4.3.2)
```

Command:

`-py -m pip install virtualenv`

//after installing you need to create an environment

2.)

Creating an Environment

```
D:\Schoolings\CSIT327\InformationManagement_Project>py -m virtualenv myenv
created virtual environment CPython3.12.5.final.0-64 in 2528ms
  creator CPython3Windows(dest=D:\Schoolings\CSIT327\InformationManagement_Project\myenv, clear=False, no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, via=copy, app_data_dir=C:\Users\Thank You\AppData\Local\pypa\virtualenv)
    added seed packages: pip==24.2
    activators BashActivator,BatchActivator,FishActivator,NusHELLActivator,PowerShellActivator,PythonActivator
```

Command:

`-py -m virtualenv myenv`

//now after creating use cd to select your env

`-cd myenv`

//after that you can type dir to show the directory inside your env

`-dir`

//after showing it select Scripts then activate it

```
D:\Schoolings\CSIT327\InformationManagement_Project>cd myenv

D:\Schoolings\CSIT327\InformationManagement_Project\myenv>dir
Volume in drive D is Volume
Volume Serial Number is 743C-31A1

Directory of D:\Schoolings\CSIT327\InformationManagement_Project\myenv

16/10/2024  09:55 pm    <DIR>          .
16/10/2024  09:55 pm    <DIR>          ..
16/10/2024  09:55 pm             42 .gitignore
16/10/2024  09:55 pm    <DIR>          Lib
16/10/2024  09:55 pm             426 pyvenv.cfg
16/10/2024  09:55 pm    <DIR>          Scripts
                2 File(s)             468 bytes
                4 Dir(s)  643,189,473,280 bytes free

D:\Schoolings\CSIT327\InformationManagement_Project\myenv>Scripts\activate

(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>|
```

Command:

-Scripts\activate

//after activating now you can install Django

3.)

Installing Django

```
D:\Schoolings\CSIT327\InformationManagement_Project\myenv>Scripts\activate

(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>py -m pip install django
Collecting django
  Downloading Django-5.1.2-py3-none-any.whl.metadata (4.2 kB)
Collecting asgiref<4,>=3.8.1 (from django)
  Using cached asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.5.1-py3-none-any.whl.metadata (3.9 kB)
Collecting tzdata (from django)
  Using cached tzdata-2024.2-py2.py3-none-any.whl.metadata (1.4 kB)
Downloading Django-5.1.2-py3-none-any.whl (8.3 MB)
   8.3/8.3 MB 10.1 MB/s eta 0:00:00
Using cached asgiref-3.8.1-py3-none-any.whl (23 kB)
Using cached sqlparse-0.5.1-py3-none-any.whl (44 kB)
Using cached tzdata-2024.2-py2.py3-none-any.whl (346 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2

(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>|
```

Code:

-py -m pip -install Django

//you can also check your Django version by

```
(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>django-admin --version
5.1.2
```

Command:

-django-admin --version

//now you can create your Django Project

4.)

Creating Django Project

//for creating Project Project you need to use this command django-admin

```
(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>django-admin startproject liams_activity_log_system
(myenv) D:\Schoolings\CSIT327\InformationManagement_Project\myenv>|
```

Command:

-django-admin startproject nameofyourproject

//for creating your Django application use py manage.py startapp nameofyourapplication

5.)

Creating Django Application

Command:

-py manage.py startapp nameofyourapplication

TOOLS OR COMMAND TO USE

1.)

Install Django

-py install Django

Verify installation

django-admin --version

2.)

Install Virtual Environment

-py pip install virtualenv

//if doesn't work try py -m install virtualenv

Virtual Environment

-py virtualenv myenv

//if doesn't work try py -m virtual myenv

3.)

Creating a Django Project

django-admin startproject nameofproject

//manage.py – command-line

4.)

Creating a Django App

-py manage.py startapp nameofproject

//register the app in the INSTALLED_APPS in settings.py

4.)

Running the Django Development Server

-py manage.py runserver