**Installation of Python, Django and Visual Studio code editors can be demonstrated.**

Python download link <https://www.python.org/downloads/>

To check out python installed version **py –version**

VScode **https://code.visualstudio.com/download**

Django installation commands to be typed in cmd

1. py -m pip install Django

or

py -m pip install Django==5.0.4 #version

**Creation of virtual environment, Django project and App should be demonstrated**

1. Create virtual environment!

# Install virtualenv if you haven't already

py -m pip install --user virtualenv

# Create a new virtual environment

py -m venv myenv (myenv is virtual environment name)

# Activate the virtual environment

python manage.py runserver

1. **Installing Django**

Once the virtual environment is activated, you can install Django

python -m pip install --upgrade pip

# Install Django

**pip install Django**

1. **Creating a Django Project**

# Navigate to your desired directory

cd /path/to/your/directory

# Create a new Django project

**django-admin startproject myproject**

1. **Running the Django Development Server**

# Run the development server

**python manage.py runserver**

1. **Creating a Django App**

# Ensure you are in the project directory

cd /path/to/your/directory/myproject

# Create a new app called 'myapp'

**python manage.py startapp myapp**

1. **Running Migrations**

python manage.py makemigrations

python manage.py migrate

1. **Creating Superuser (Admin User)**

python manage.py **createsuperuser**

**python manage.py help**

**python manage.py runserver**

**3. develop a Django app that displays current date and time in server**

Create folder in E drive

Go to cmd-> create virtual environment py -m venv myenv

Activate virtual environment .\myenv\Scripts\activate

Install Django for the environment pip install Django

Create project Django-admin startproject time\_project

Cd time\_project

Create app python manage.py startapp time\_app

#navigate to the **time\_project/time\_app** directory and open views.py.

Add the following code to define a view that will display the current time and date

from django.http import HttpResponse

from datetime import datetime

def current\_datetime(request):

now = datetime.now()

html = "<html><body>Current date and time: {}</body></html>".format(now)

return HttpResponse(html)

#Open **time\_project/time\_project/urls.py** and include the time\_app URLs:

from django.contrib import admin

from django.urls import path, include

urlpatterns = [

path('admin/', admin.site.urls),

path('time/', include('time\_app.urls')),

]

#Create a new file called urls.py inside the time\_app directory and add the following code

from django.urls import path

from . import views

urlpatterns = [

path('', views.current\_datetime, name='current\_datetime'),

]

to run

Python manage.py runserver