INTRODUCTION TO PYTHON DJANGO

Web Development

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Django at a glance

Django is a **high-level** Python **web framework** that encourages **rapid development,** and **clean, pragmatic** design.

Because Django was developed in a fast-paced newsroom environment, it was designed to make common Web development tasks fast and easy.
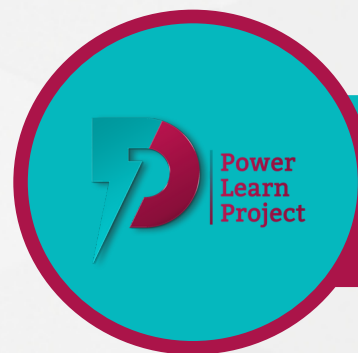
Learning Objectives

1. Understanding Django Fundamentals

2. Building Dynamic Web Pages with Django Templates

3. Working with Django Models and Databases

4. Implementing User Authentication and Authorization

5. Creating RESTful APIs with Django Rest Framework

Getting Started

Installation

- Create a project folder name

- Run **pip install virtualenv**

- Install Python Intellisense extension

- Open the **root folder** with cmd/powershell/terminal

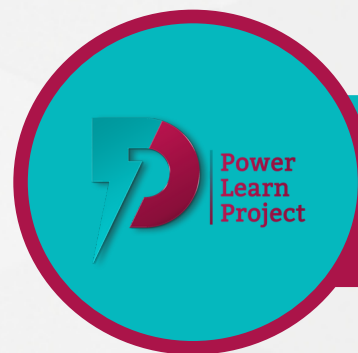- run the code **virtualenv projectname** - To create virtual env for the project

Getting Started

Procedure

- cd **projectname**

- Activate the virtualenv, to activate run **Scripts\activate**

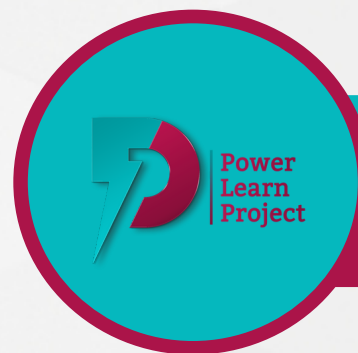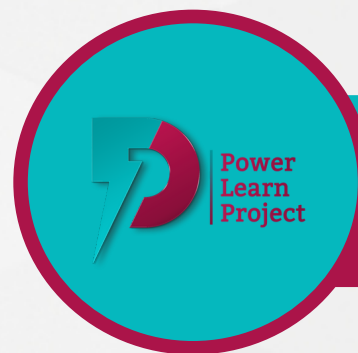- Install django with **pip install django**

Use Django

Create 1st Project

Procedure

- Run **django-admin startproject mysite**

- Run your django project by **cd mysite**

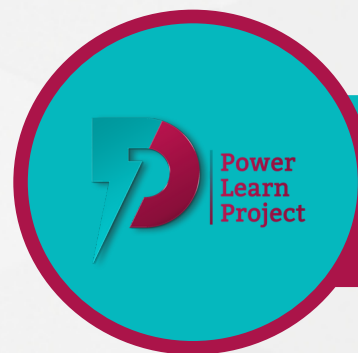- **R**un **python manage.py runserver**

Create Hello world
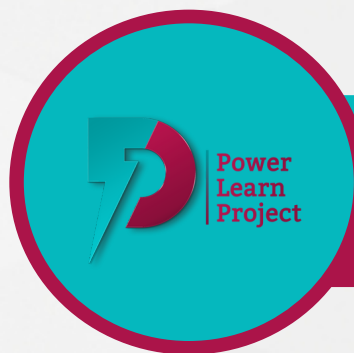
Create 1st Project

Procedure

- Run **python manage.py startapp appname**

- Open the **myproject** with **VSCODE**

- Go to **settings** file and register your app in like **"appname"**

- Create a new folder that is **templates** => then create **base.html** file

Create 1st Project

- Register your **templates** in the settings file under **TEMPLATES**

- Register as **'DIRS': [os.path.join(BASE_DIR, 'templates')] .** Make sure to import the os like

  import os

- In views folder,create the views for the **blogname**

```
def home_screen(request):
    print(request.headers)
     return render (request, 'base.html', {})
```
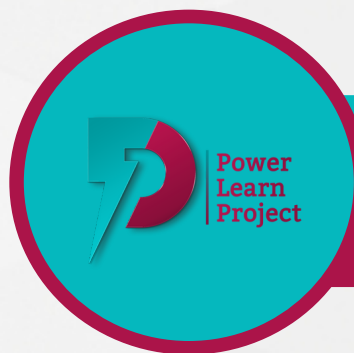
Create 1st Project

- In the urls.py file, import the **views** created in **blogname**

  from blog.views import home_screen

  urlpatterns = [path("", home_screen)]

Try your app

- Make sure your **virtualenv** is activated
- Then run python **manage.py runserver**
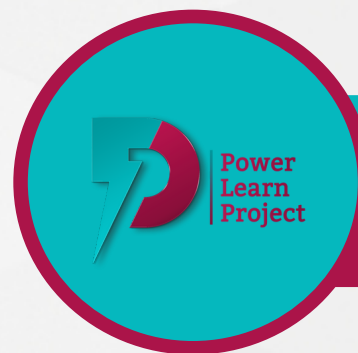
What Next

Django Templates,

Django Views,

Django Content Blocks

Django Variables and Lists