

## With Virtual Environment

Django installation:

1. Open command prompt as Administrator
2. Create directory in any drive to develop the Django project. (django)
3. Change the directory to created directory
4. Run the “virtualenv virt\_env” command to create virtual environment.
  - Virtualenv is globally install in computer that can run from any folder in computer.
  - Virt\_env is user defined name.
5. Run the “virt\_env\scripts\activate” command to activate / deactivate the environment.
6. Run “ pip install django ” to install django in virtual environment.

Project creation:

1. Run “django-admin startproject school”. Here school is a django project name.
2. Change the project. (CD school.)
3. Run “python manage.py runserver”
4. Open web browser and type the local host address (127.0.0.1:8000)
5. Show the message as “ Congratulations.....”

App Creation:

1. Under project (school) , create app as “python manage.py startapp admission”. Here admission is app name.
2. More than one app can be created under a project. python manage.py startapp examination

Registration of Apps:

1. Open the “settings.py” file under the project “school”. Edit the file to register all the apps as given below.
2. Go to INSTALLED\_APPS=[  
..... ,  
..... ,  
‘admission’ ,  
‘examination’ ,  
]

Create model:

1. In the school project, create a model for each app created earlier.
2. Open the models.py file under the each app and define a class as given below.
3. class adm(models.Model):  
    sn=models.IntegerField()  
    name=models.CharField(max\_length=20)  
    age=models.FloatField()

Create template:

1. In school project, create a template for each app created earlier.
2. Open “school” project and create folder as “templates”.
3. Open “templates” folder and create webpage as “page1.html”
4. Write html code in page1.html to display the contents.
5. More than one webpages can be created.

Registration of templates:

1. Templates must be register in the school project.
2. Open the “settings.py” under the school project.
3. Edit the file... DIRS[‘templates’] and save the file.

Create view:

1. Create view for each webpage created.
2. Under admission app and open “views.py” file.
3. Write the function in the file to show the webpages. (As given below)
4. 

```
def firstview(request):
    return render(request, 'page1.html')

def secondview(request):
    return render(request,'page2.html')
```

Creating URLs configuration:

1. open the “urls.py” under the school project.
2. Edit the file to import the urls as given below  

```
from admission import views
urlpatterns=[
    path('admin/',admin.sites.urls),
    path('firstview/',views.firstview)
    path('secondview/',views.secondview)
]
```
3. Firstview and secondview are the names of views created for web page.
4. Run the command”python manage.py runserver” and open the web server.
5. 127.0.0.1:8000/firstview/ or 127.0.0.1:8000/secondview/

Write webpage data to csv file:

1. Open the view.py file of app (admission)
2. Create / edit the “firstview” function as given below
3. import csv
4. # Create your views here.

```
def firstview(request):
    if request.method=='POST':
        dict1=request.POST
        with open('studata.csv','a') as csvfile:
```

```
wrt=csv.writer(csvfile)
for key, value in dict1.items():
    wrt.writerow([key, value])
return render(request, 'page1.html')
```

5. Open the first.html webpage and edit it as given below.

```
<html>
<title> My First Django Application</title>
<center>
<head> Welcome to Student Project:Admission App</head>
<body bgcolor="skyblue">
<br><br>
<form action="#" method="post">
{% csrf_token %}
Roll No: <input type="text" name="rollno"> <br>
Name: <input type="text" name="name"> <br>
<input type="radio" name="stream" value="Medical" checked> Medical
<input type="radio" name="stream" value="Non Medical"> Non Medical
<input type="radio" name="stream" value="Commerce"> Commere
<input type="radio" name="stream" value="Humanities"> Humanities
<br>
<input type="submit" value="submit">
</form>
</body>
</html>
```

6. Open the school project folder, the studata.csv file will store all the data of webpage.

## Without Virtual Environment

Django installation:

1. Open command prompt as Administrator
2. Open Scripts folder of python path

Project creation:

3. Run “django-admin startproject school”. Here school is a django project name.
4. Change the project. (CD school.)
5. Install django by using, “pip install django” command
6. Run “python manage.py runserver”
7. Open web browser and type the local host address (127.0.0.1:8000)
8. Show the message as “ Congratulations.....”

App Creation:

3. Under project (school) , create app as “python manage.py startapp admission”. Here admission is app name.
4. More than one app can be created under a project. python manage.py startapp examination

Registration of Apps:

3. Open the “settings.py” file under the project “school”. Edit the file to register all the apps as given below.
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7. Open “school” project and create folder as “templates”.
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Registration of templates:

4. Templates must be register in the school project.
5. Open the “settings.py” under the school project.
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Create view:

5. Create view for each webpage created.
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<input type="radio" name="stream" value="Non Medical"> Non Medical
<input type="radio" name="stream" value="Commerce"> Commere
<input type="radio" name="stream" value="Humanities"> Humanities
<br>
<input type="submit" value="submit">
</form>
</body>
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12. Open the school project folder, the studata.csv file will store all the data of webpage.