**Creating Multiple Apps in a Project:**

**Creating a Project:**

Here we are developing some School Project

1. Creating a project SchoolProject in the current directory.

django-admin startproject SchoolProject

2. Move to that current directory

cd SchoolProject

3. To run the server if server is working

python manage.py runserver

4. Go to browser window and type this url <http://127.0.0.1:8000>

After checking the servers is worked and drag and drop the SchoolProject into the atom IDE.

**Creating an First Application**

Here we are creating the first application name as admissions

1. Creating an application admissions

django-admin startapp admissions

1. Click the admissions app and select views.py

**views.py**

from django.shortcuts **import** render

from django.http import HttpResponse

def addadmission(request):

return HttpResponse('this is add admission view')

def admissionreport(request):

return HttpResponse('this is admission report view')

* After finishing the views logic and add application in settings.py in project folder

**Settings.py**

* In this settings.py file and go to the Installed\_Apps and add the application 'admissions' and put the comma and save it.

Open urls.py in the project folder

**urls.py**

from django.contrib **import** admin

from django.urls **import** path

from admissions **import** views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('newadm/', views.addadmission),

    path('admreport/', views.admissionreport),

]

**Creating an Second Application**

Here we are creating the first application name as finance

1. Creating an application finance

django-admin startapp finance

1. Click the finance app and select views.py

**views.py**

from django.shortcuts **import** render

from django.http import HttpResponse

def feecollection(request):

return HttpResponse('<h1>I will collect the fees from this view</h1>')

def feeduesreport(request):

return HttpResponse('<h1>I will get the fee dues report from this view</h1>')

def feecollectionreport(request):

return HttpResponse('<h1>I will get fee collection report from this view</h1>')

* After finishing the views logic and add application in settings.py in project folder

**Settings.py**

* In this settings.py file and go to the Installed\_Apps and add the application 'finance' and put the comma and save it.

Open urls.py in the project folder

**urls.py**

from django.contrib **import** admin

from django.urls **import** path

from finance **import** views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('feecoll/', views.feecollection),

    path('duesreport/', views.feeduesreport),

    path('collectionreport/', views.feecollectionreport),

]

**To run the application**

python manage.py runserver

* Go to browser window and type this url http://127.0.0.1:8000
* It will shows the view action and choose the view particular action

http://127.0.0.1:8000/

After running this server it will shows error in finance application doesn’t have addadmission view function.

If we are used to creating a multiple applications in a single project and the first application url\_Patterns view are importing in the urls.py file will be override by the second application url\_Patterns view are importing in the urls.py file.

**Aliasing Concept:**

To change the urls.py file in the project folder by adding the aliasing concept for importing the admissions and finance app.

Open urls.py in the project folder

**urls.py**

from django.contrib **import** admin

from django.urls **import** path

from admissions **import** views as ad

from finance **import** views as fin

urlpatterns = [

    path('admin/', admin.site.urls),

    path('newadm/', ad.addadmission),

    path('admreport/', ad.admissionreport),

    path('feecoll/', fin.feecollection),

    path('duesreport/', fin.feeduesreport),

    path('collectionreport/', fin.feecollectionreport),

]

**To run the application**

python manage.py runserver

* Go to browser window and type this url http://127.0.0.1:8000
* It will shows the view action and choose the view particular action

http://127.0.0.1:8000/

**Another approach to overcome ambiguity**

If we have same view name in admissions and finance apps then it will become again clash so views name should be unique.

**urls.py**

from django.contrib **import** admin

from django.urls **import** path

from admissions.views **import** addadmission

from admissions.views **import** admissionreport

from finance.views **import** feecollection

from finance.views **import** feeduesreport

from finance.views **import** feecolletionreport

urlpatterns = [

    path('admin/', admin.site.urls),

    path('newadm/', addadmission),

    path('admreport/', admissionreport),

    path('feecoll/', feecollection),

    path('duesreport/', feeduesreport),

    path('collectionreport/', feecollectionreport),

]

Summary of multiple apps in a project:

1. Creating a Project by using this command

django-admin startproject projectname

1. Creating an first application by using this command

django-admin startapp appname

or

python manage.py startapp appname

1. Add First Application in settings.py in the Installed\_Apps
2. Creating a first application view functions for every action
3. Defining first application url patterns in project level urls.py file
4. Creating an second application by using this command

django-admin startapp appname

or

python manage.py startapp appname

1. Add Second Application in settings.py in the Installed\_Apps
2. Creating a second application view functions for every action
3. Defining second application url patterns in project level urls.py file
4. To run the server by using this command

python manage.py runserver

1. Send the request in browser and typing this url <http://127.0.0.1:8000/>