

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
```

2. 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 HttpResponseRedirect('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
2. 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
```

2. Creating an first application by using this command

```
django-admin startapp appname
```

or

```
python manage.py startapp appname
```

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

```
django-admin startapp appname
```

or

```
python manage.py startapp appname
```

7. Add Second Application in settings.py in the Installed_Apps
8. Creating a second application view functions for every action
9. Defining second application url patterns in project level urls.py file
10. To run the server by using this command

```
python manage.py runserver
```

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