**Defining urlpatterns at application level instead of project level:**

A Django project can contain multiple applications and each application can contain multiple views.

Defining url-patterns for all views of all applications inside urls.py file of project creates maintenance problems and reduces reusability of applications.

We can solve this problem by defining url-patterns at application level instead of project level.

For every application we have to create a separate urls.py file and we have to define all that application specific urls in that file.

We have to link this application level urls.py file to project level urls.py file by using include() method.

1. Create project

Django-admin startproject project4

1. Open project4
2. Create application

Python manage.py startapp application1

1. Open views.py

from django.shortcuts import render

# Create your views here.

from django.http import HttpResponse

def display(request):

    msg="<h1>Example of Application Level URL</h1>"

    return HttpResponse(msg)

1. Create urls.py in application folder

from django.urls import re\_path

from application1 import views

urlpatterns=[re\_path('welcome/',views.display),]

re\_path is predefined function which urlpattern

{‘welcome’:views.display}

1. Include this urls.py in urls.py at project level

Open url.py at project level

from django.contrib import admin

from django.urls import path,include

import application1

urlpatterns = [

    path('admin/', admin.site.urls),

    path('application1/',include('application1.urls'))

]

1. Open settings.py

Install application

INSTALLED\_APPS = [

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

    'application1',

]

1. python manage.py runserver
2. http://localhost:8000/application1/welcome

**Advantages:**

The main advantages of defining urlpatterns at application level instead of project level are

1. It promotes reusability of Django Applications across multiple projects

2. Project level urls.py file will be clean and more readable

**Templates**

**What is template?**

Template is an html file or web page

**Why template?**

Inserting html code inside view is complex maintain

There is no separation of business logic and presentation logic

In order separate business logic and presentation logic we use templates. Template contain presentation logic or output logic