

## WEEK – 11

**Aim:** Django Project ( URL Shortner )

**Code:**

**Main file ( shortner)**

**admin.py:**

```
from django.contrib import admin
from .models import Url

# Register your models here.
admin.site.register(Url)
```

**apps.py:**

```
from django.apps import AppConfig

class ShortnerConfig(AppConfig):
    name = 'shortner'
```

**models.py:**

```
from django.db import models

# Create your models here.
class Url(models.Model):
    link = models.CharField(max_length=10000)
    uuid = models.CharField(max_length=10)
```

**urls.py:**

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
    path('create', views.create, name='create'),
    path('<str:pk>', views.go, name='go')
]
```

### views.py:

```
from django.shortcuts import render, redirect
import uuid
from .models import Url
from django.http import HttpResponse

# Create your views here.
def index(request):
    return render(request, 'index.html')

def create(request):
    if request.method == 'POST':
        link = request.POST['link']
        uid = str(uuid.uuid4())[:5]
        new_url = Url(link=link, uid=uid)
        new_url.save()
        return HttpResponse(uid)

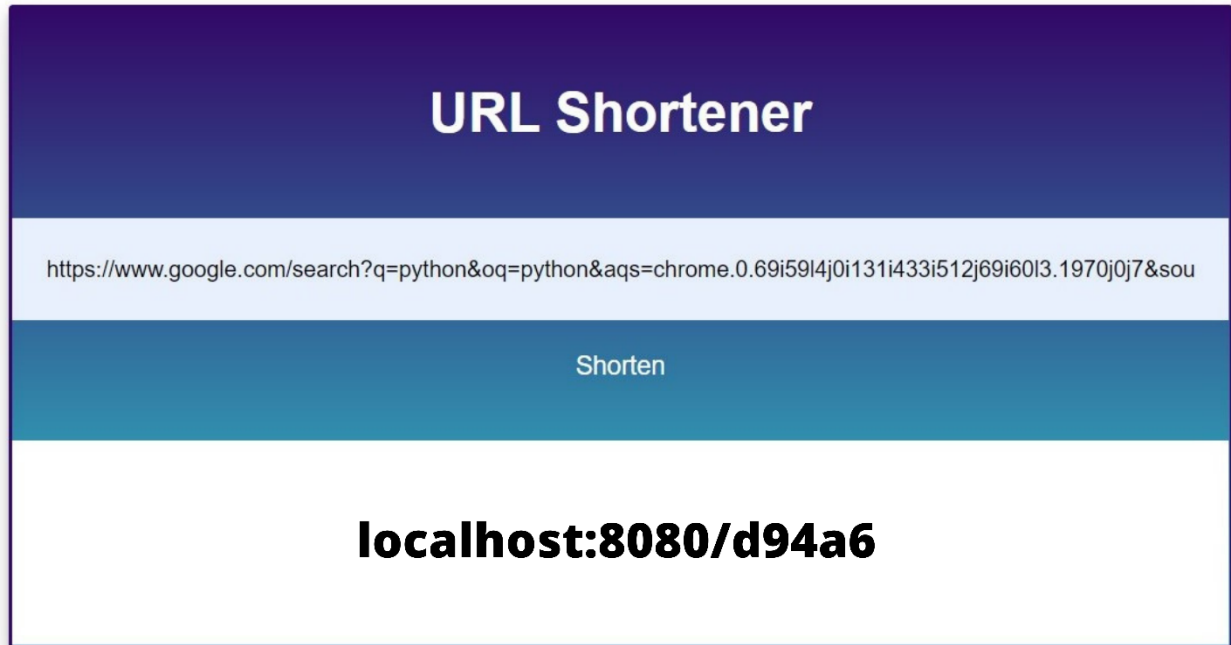
def go(request, pk):
    url_details = Url.objects.get(uid=pk)
    return redirect('https://' + url_details.link)
```

### URLSHORTNER:

#### urls.py:

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('shortner.urls'))
]
```

**OUTPUT:**

The screenshot shows a web application titled "URL Shortener" with a dark blue header. Below the header is a light blue input field containing a long URL: `https://www.google.com/search?q=python&oq=python&aqs=chrome.0.69i59l4j0i131i433i512j69i60l3.1970j0j7&sou`. Below the input field is a teal button labeled "Shorten". At the bottom, a white box displays the shortened URL: **localhost:8080/d94a6**.