# **Project for CRUD operations by using CBV's:**

ListView -->To list out all records information

DetailView -->To get information about a particular object

CreateView --->To insert/create a record into the database

UpdateView --->To update a an existing record
DeleteView --->To delete a particular record

#### <u>Ex:</u>

D:\Django\_20MAR\_7PM>django-admin startproject cbvproject3

D:\Django\_20MAR\_7PM>cd cbvproject3

D:\Django 20MAR 7PM\cbvproject3>py manage.py startapp testapp

-->Add app in settings.py

# models.py

class Company(models.Model):

name = models.CharField(max length=128)

location = models.CharField(max length=64)

ceo = models.CharField(max length=64)

-->Makemigrations and migrate

#### admin.py

from testapp.models import Company

class CompanyAdmin(admin.ModelAdmin):

list\_display = ['name','location','ceo']

admin.site.register(Company,CompanyAdmin)

#### views.py

from django.views.generic import ListView

from testapp.models import Company

class CompanyListView(ListView):

model = Company

#default template file name:company\_list.html

#default context object name:company\_list

#### base.html

```
<!DOCTYPE html>
```

<html lang="en" dir="ltr">

<head>

```
<meta charset="utf-8">
  <title></title>
  <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.cs"
s" integrity="sha384-
xOolHFLEh07PJGoPkLv1lbcEPTNtaed2xpHsD9ESMhqlYd0nLMwNLD69Npy4HI+
N" crossorigin="anonymous">
</head>
<body>
  <div class="container">
  {% block body block %}
  {% endblock %}
 </div>
 </body>
</html>
  company list.html
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<h1>List of all companies</h1>
ul>
{% for company in company_list %}
{{company.name}}
{{company.location}}
{{company.ceo}}
{% endfor %}
{% endblock %}
  urls.py
path(", views.CompanyListView.as_view()),
  views.py
class CompanyDetailView(DetailView):
  model = Company
       #default template file name:company detail.html
       #default context object name:company or object
```

```
urls.py
```

path('<int:pk>/', views.CompanyDetailView.as\_view()),

```
company_list.html
```

```
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<h1>List of all companies</h1>

{% for company in company_list %}
<a href="/{{company.id}}">{{company.name}}</a>
{% endfor %}

{% endblock %}
```

## company\_detail.html

```
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<h1>{{company.name}} Information</h1>

<h2>Company Name:{{company.name}}
<h2>Company Location:{{company.location}}
<h2>Company CEO:{{company.ceo}}
<h2>
{% endblock %}
```

### views.py

```
class CompanyCreateView(CreateView):
  model = Company
  fields = '__all__'
```

# • company\_form.html

```
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<h1>Company Insert/Update Form </h1>
<form method="post">
{{form.as_p}}
{% csrf token %}
```

```
<input type="submit" name="" value="Insert / Update Record"> </form> {% endblock %}
```

### urls.py

path('create/', views.CompanyCreateView.as\_view()),

ImproperlyConfigured at /create/

No URL to redirect to. Either provide a url or define a get\_absolute\_url method on the Model.

# models.py

```
from django.urls import reverse
# Create your models here.
class Company(models.Model):
    name = models.CharField(max_length=128)
    location = models.CharField(max_length=64)
    ceo = models.CharField(max_length=64)

def get_absolute_url(self):
    return reverse('detail',kwargs={'pk':self.pk})
```

### views.py

```
class CompanyUpdateView(UpdateView):
  model = Company
  fields = ('location','ceo')
```

### urls.py

path('update/<int:pk>/', views.CompanyUpdateView.as view()),

# add update link in company\_detail.html

```
<a class="btn btn-warning" href="/update/{{company.id}}">Update Record</a> <a class="btn btn-success" href="/">Company List</a>
```

#### views.py

```
from django.urls import reverse_lazy class CompanyDeleteView(DeleteView): model = Company success_url = reverse_lazy('list')
```

```
urls.py
```

path('delete/<int:pk>/', views.CompanyDeleteView.as view()),

TemplateDoesNotExist at /delete/5/ testapp/company\_confirm\_delete.html

# company\_confirm\_delete.html

```
<!DOCTYPE html>
{% extends 'testapp/base.html' %}
{% block body_block %}
<h1>Do you want to really delete company:{{company.name}}???</h1>
<form method="post">
{% csrf_token %}
<input type="submit" class="btn btn-danger" name="" value="Delete Record">
<a class="btn btn-success" href="/{{company.id}}">Cancel</a>
</form>
{% endblock %}
```

## company\_detail.html

```
<a class="btn btn-warning" href="/update/{{company.id}}">Update
Record</a>
<a class="btn btn-danger" href="/delete/{{company.id}}">Delete Record</a>
<a class="btn btn-success" href="/">Company List</a>
```

# urls.py

```
urlpatterns = [
  path('admin/', admin.site.urls),
  path('', views.CompanyListView.as_view(),name='list'),
  path('<int:pk>/', views.CompanyDetailView.as_view(),name='detail'),
  path('create/', views.CompanyCreateView.as_view()),
  path('update/<int:pk>/', views.CompanyUpdateView.as_view()),
  path('delete/<int:pk>/', views.CompanyDeleteView.as_view()),
```