**Apr 30**

**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

**Ex:**

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" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css" integrity="sha384-xOolHFLEh07PJGoPkLv1IbcEPTNtaed2xpHsD9ESMhqIYd0nLMwNLD69Npy4HI+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 %}

<li>{{company.name}}</li>

<li>{{company.location}}</li>

<li>{{company.ceo}}</li>

{% endfor %}

</ul>

{% 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>

<ul>

{% for company in company\_list %}

<li><a href="/{{company.id}}">{{company.name}}</a></li>

{% endfor %}

</ul>

{% endblock %}

* **company\_detail.html**

<!DOCTYPE html>

{% extends 'testapp/base.html' %}

{% block body\_block %}

<h1>{{company.name}} Information</h1>

<ul>

<h2><li>Company Name:{{company.name}}</li></h2>

<h2><li>Company Location:{{company.location}}</li></h2>

<h2><li>Company CEO:{{company.ceo}}</li></h2>

</ul>

{% 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()),