

## Django Step by Step Crud Application with Model form Example :-

Step 1:- Models.py file code :-

```
from django.db import models

# Create your models here.

class ContactForm(models.Model):

    fullname= models.CharField(max_length=100)
    email= models.EmailField()
    contact= models.CharField(max_length=50)
    message= models.CharField(max_length=200)
```

Step 2:- forms.py file code :-

```
from django import forms
from .models import ContactForm

class FormContactForm(forms.ModelForm):
    class Meta:
        model= ContactForm
        fields= ["fullname", "email", "contact", "message"]
```

Step 3:- write code for views.py file :-

```
from urllib import request
from django.shortcuts import render,redirect
from hello.models import ContactForm,contactEnquiry
from hello.forms import FormContactForm
from django.contrib import messages
from django.db.models import Q

def showform(request):
    form= FormContactForm(request.POST or None)
    if form.is_valid():
        form.save()

    context= {'form': form }

    return render(request, 'contactform.html', context)

def home(request):
    serviceData=ContactForm.objects.all()
    data={'serviceData':serviceData
        }

    return render(request,"home.html",data)

def editemp(request,id):
    data=ContactForm.objects.get(id=id)
    return render(request, "edit.html",{ 'editupdaterecord':data})

def updateemp(request,id):
    if request.method=='POST':
        pi=ContactForm.objects.get(id=id)
        form= FormContactForm(request.POST ,instance=pi)
        if form.is_valid():

            form.save()
        msg="record updated"
        return render(request, "update.html",{ 'editupdaterecord':msg})
```

```
def search(request):
    if request.GET.get('myform'): # write your form name here
        book_name = request.GET.get('myform')

        try:

            status = ContactForm.objects.filter(fullname__icontains=book_name)
            return render(request,"search1.html",{"books":status})
        except:
            return render(request,"search1.html",{'books':status})
    else:
        return render(request, 'search1.html', {'books':status})

def search1(request):
    if 'q' in request.GET:
        q=request.GET['q']
        multiple_q=Q(Q(fullname=q)| Q(message=q))
        data=ContactForm.objects.filter(multiple_q)

    else:
        data =ContactForm.objects.all()

    return render(request,'search1.html',{
        'data':data
    })
```

Step 4:- `urls.py` file code of app folder:-

```
from django.urls import path

from . import views

urlpatterns=[
path('',views.index,name='index'),

path('home/',views.home,name='home'),
path('about/',views.about,name='about'),

path('showform/', views.showform),
path('search/', views.search,name='search'),
path('search1/', views.search1,name='search1'),

path('editemp/<int:id>', views.editemp, name='editemp'),
path('updateemp/<str:id>', views.updateemp, name='updateemp'),

]
```

Step 5:-

Create templates folder inside your app folder and create html files

contactform.html file:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Django Contact Form</title>
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scrip
t>
</head>
<body>
<form method="POST" class="post-form" action="#">
{% csrf_token %}
<div class="container">
<div class="form-group">
  <label for="id" class="control-label col-sm-2">id</label>
  <div class="col-sm-10">
    <input type="text" name="id" value="" class="form-control" />
  </div>
  <label for="fullname" class="control-label col-sm-2">Full Name</label>
  <div class="col-sm-10">
    <input type="text" name="fullname" value="" class="form-control" />
  </div>
</div>
<div class="form-group">
  <label for="email" class="control-label col-sm-2">Email</label>
  <div class="col-sm-10">
    <input type="text" name="email" value="" class="form-control" />
  </div>
</div>
<div class="form-group">
  <label for="contact" class="control-label col-sm-2">Contact</label>
  <div class="col-sm-10">
```

```

    <input type="text" name="contact" value="" class="form-control" />
  </div>
</div>
<div class="form-group">
  <label for="message" class="control-label col-sm-2">Message</label>
  <div class="col-sm-10">
    <input type="text" name="message" value="" />
  </div>
</div>
<div class="form-group">
<button type="submit" class="btn btn-default">Submit</button>
</div>
</div>
</form>
</body>
</html>

```

#### Home.html file code:-

```

<html>
  <head>
    {% load static %}

    <link rel="stylesheet" href="{% static 'ok.css' %}">

  </head>
  <body>

    <h1 class="myclass">hello world how are you
      {{data}}
    </h1>
    <div>

      {% for n in serviceData %}

        {{n.id}}

        <span class="{{n.fullname}}"> {{n.fullname}}</span>

        <span class="{{n.email}}">{{n.email}} </span>

```

```
        <p> {{n.contact}} </p>

        <a href="{% url 'editemp' n.id %}">Edit</a>

    {% endfor %}
</div>
</body>
</html>
```

Write code for edit.html :-

```
{{id}}

<form action="{% url 'updateemp' editupdaterecord.id %}" method="post">

    {% csrf_token %}

    name <input type="text" name="fullname" value={{editupdaterecord.fullname}}>

    email <input type="text" name="email" value={{editupdaterecord.email}}>
    Contact <input type="text" name="contact" value={{editupdaterecord.contact}}>
    message <input type="text" name="message" value={{editupdaterecord.message}}>

    <input type="submit" value="update">

</form>
```

Write code for update.html file:-

```
{{editupdaterecord}}
```

Write code for search1.html file:-

```
<form name="myform" method="GET" action="{% url 'search1' %}">  
  <input type="text" name="q" placeholder="Search" />  
<button type="submit"> search</button></form>
```

```
{% for data in data %}  
<td>{{data.fullname}}</td>  
<td>{{data.email}}</td>  
<td>{{data.contact}}</td>  
{% endfor %}
```