Django Project – Code a CRM App Tutorial With Codemy.com

https://www.youtube.com/watch?v=t10QcFx7d5k

https://github.com/flatplanet/Django-CRM

python -m venv virt	สร้างพื้นที่สำหรับ Django
virt\Scripts\activate	เข้าไปใน VENV
pip install django	ลง Django
django-admin startproject dcrm / cd dcrm	สร้างโปรเจค dcrm และเข้าไปในโฟลเดอร์ dcrm
python mange.py startapp website	สร้างแอป website
python manage.py migrate	migrate
python manage.py createsuperuser	สร้าง admin
python manage.py runserver	runserver

settings.py

```python
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'website',
]
```

dcrm/urls.py

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

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

website/urls.py

```python
from django.urls import path, include
from . import views

urlpatterns = [
    path('', views.home, name='home'),
]
```

views.py

```python
from django.shortcuts import render

def home(request):
    return render(request, 'home.html',{})
```

templates/home.html

```
website > templates > home.html > ...
{% extends 'base.html' %}
{% block title %}
    Home Page
{% endblock title %}
{% block content %}
    <h1>Hello world!!!!</h1>
{% endblock content %}
```

templates/navbar.html   >>> bootstrap/navbar

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">Django CRM</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#na
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav me-auto mb-2 mb-lg-0">

          <li class="nav-item">
            <a class="nav-link" href="#">Link</a>
          </li>


      </div>
    </div>
  </nav>
```

templates/base.html >>>> bootstrap

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="st
    <title>Hello Django</title>
  </head>
  <body>
    {% include 'navbar.html' %}
    {% block content %}

    {% endblock content %}

    <!-- Option 1: Bootstrap Bundle with Popper -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" i
  </body>
</html>
```

Django CRM   Home Link

Hello, world!

Login User

views.py

```python
from django.shortcuts import render, redirect
from django.contrib.auth import authenticate, login, logout
from django.contrib import messages

def home(request):
    if request.method == 'POST':
        username = request.POST['username']
        password = request.POST['password']
        user = authenticate(request, username=username, password=password)
        if user is not None:
            login(request, user)
            messages.success(request,"You Have Been Loggin")
            return redirect('home')
        else:
            messages.success(request,"There Was An Error Please Try Again")
            return redirect('home')
    else:
        return render(request, 'home.html')
```

ursls.py

```python
from django.urls import path, include
from . import views

urlpatterns = [
    path('', views.home, name='home'),
    path('login/', views.login_user, name='login'),
    path('logout/', views.logout_user, name='logout'),
]
```

base.html นำ message ไปแสดงที่หน้า base

```html
body>
 {% include 'navbar.html' %}
 <div class="container">
     {% if messages %}
         {% for message in messages %}
         <div class="alert alert-info alert-dismissible fade show" role="alert">
             {{message}}
             <button type="button" class="btn-close" data-bs-dismiss="alert"
                 aria-label="Close"></button>
         </div>
         {% endfor %}
     {% endif %}
     {% block content %}

     {% endblock content %}
 </div>
</div>
```

home.html

```
{% extends 'base.html' %}

{% block content %}
    <div class="col-md-6 offset-md-3">
    {% if user.is_authenticated %}
        <h1>Hello Django</h1>
    {% else %}
        <h1>Login</h1><br>
        <form method="POST" action="{% url 'home' %}">
            {% csrf_token %}
            <form>
                <div class="mb-3">
                <input type="text" class="form-control" name="username"
                    placeholder="Username" required>
                </div>
                <div class="mb-3">
                <input type="password" class="form-control" name="password"
                    placeholder="Password" required>
                </div>

                <button type="submit" class="btn btn-primary">Submit</button>
            </form>
        </form>
    {% endif %}
    </div>
{% endblock content %}
```

Django CRM   Link

You Have Been Loggin   ✕

Hello Django

User Logout

urls.py

```python
urlpatterns = [
    path('', views.home, name='home'),
    path('logout/', views.logout_user, name='logout'),
]
```

views.py

```python
def logout_user(request):
    logout(request)
    messages.success(request, "You Have Been Logged Out")
    return redirect('home')
```

navbar.html

```html
<div class="collapse navbar-collapse" id="navbarSupportedContent">
  <ul class="navbar-nav me-auto mb-2 mb-lg-0">
    {% if user.is_authenticated %}
      <li class="nav-item">
        <a class="nav-link" href="{% url 'logout' %}">Logout</a>
      </li>
    {% else %}
      <li class="nav-item">
        <a class="nav-link" href="{% url 'home' %}">Login</a>
      </li>
    {% endif %}
</div>
```

Django CRM   Logout

Hello Django

Form Register User   https://github.com/flatplanet/Django-CRM

urls.py

```python
urlpatterns = [
    path('', views.home, name='home'),
    path('logout/', views.logout_user, name='logout'),
    path('register/', views.register_user, name='register'),
]
```

navbar.html

```html
        </li>
        {% else %}
        <li class="nav-item">
          <a class="nav-link" href="{% url 'register' %}">Register</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="{% url 'home' %}">Login</a>
        </li>
        {% endif %}
```

website/forms.py

```python
from django.contrib.auth.forms import UserCreationForm
from django.contrib.auth.models import User
from django import forms

class SignUpForm(UserCreationForm):
    email = forms.EmailField(label="", widget=forms.TextInput(attrs={'class':'form-contral', 'placeholder':'Email
    first_name = forms.CharField(label="", max_length=100, widget=forms.TextInput(attrs={'class':'form-contral',
    last_name = forms.CharField(label="",max_length=100, widget=forms.TextInput(attrs={'class':'form-contral', 'pl

    class Meta:
        model = User
        fields = ('username','first_name','last_name','email','password1','password2')


    def __init__(self, *args, **kwargs):
        super(SignUpForm, self).__init__(*args, **kwargs)

        self.fields['username'].widget.attrs['class'] = 'form-control'
        self.fields['username'].widget.attrs['placeholder'] = 'User Name'
        self.fields['username'].label = ''
        self.fields['username'].help_text = '<span class="form-text text-muted"><small>Required. 150 characters

        self.fields['password1'].widget.attrs['class'] = 'form-control'
        self.fields['password1'].widget.attrs['placeholder'] = 'Password'
        self.fields['password1'].label = ''
        self.fields['password1'].help_text = '<ul class="form-text text-muted small"><li>Your password can\'t be

        self.fields['password2'].widget.attrs['class'] = 'form-control'
        self.fields['password2'].widget.attrs['placeholder'] = 'Confirm Password'
        self.fields['password2'].label = ''
        self.fields['password2'].help_text = '<span class="form-text text-muted"><small>Enter the same password
```

views.py

```python
def register_user(request):
    if request.method == "POST":
        form = SignUpForm(request.POST)
        if form.is_valid():
            form.save()
            username = form.cleaned_data['username']
            password = form.cleaned_data['password1']
            user = authenticate(username=username, password=password)
            login(request, user)
            messages.success(request, "You Have Successfully Register")
            return redirect('home')
    else:
        form = SignUpForm()
        return render(request, 'register.html', {'form':form})

    return render(request, 'register.html', {'form':form})
```

Register.html

```html
{% extends 'base.html' %}
{% block content %}
    <div class="col-md-6 offset-md-3">
        <h1>Register User</h1><br>
        <form method="POST" action="">
            {% csrf_token %}
                {% if form.errors %}
                    <div class="alert alert-warning alert-dismissible fade show" role="alert">
                    Your Form Has Errors
                    {% for field in form %}
                        {% if field.errors %}
                            {{ field.errors }}
                        {% endif %}
                    {% endfor %}
                    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="
                    </div>
                {% endif %}
            {{ form.as_p }}
                <button type="submit" class="btn btn-primary">Register</button>
        </form>
    </div>
{% endblock content %}
```

สร้าง Model Database

models.py

```python
from django.db import models

class Record(models.Model):
    created_at = models.DateTimeField(auto_now_add=True)
    first_name = models.CharField(max_length=50)
    last_name = models.CharField(max_length=50)
    email = models.CharField(max_length=100)
    phone = models.CharField(max_length=15)
    address = models.CharField(max_length=100)
    city = models.CharField(max_length=50)
    state = models.CharField(max_length=50)
    zipcode = models.CharField(max_length=20)

    def __str__(self):
        return(f"{self.first_name} {self.last_name}")
```
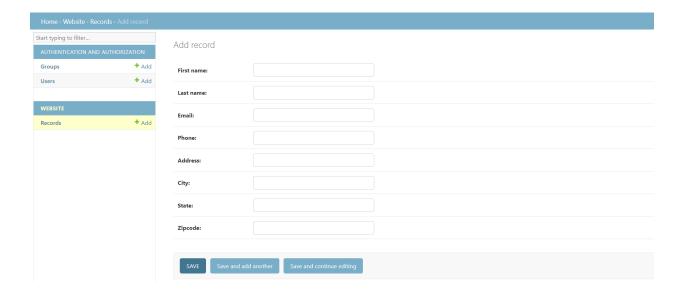
Python mange.py makegrations

Python manage.py migrate

Admin.py

```python
from django.contrib import admin
from .models import Record

admin.site.register(Record)
```

Viesw Record On Website

Views.py

```python
def home(request):
    records = Record.objects.all()
    if request.method == 'POST':
        username = request.POST['username']
        password = request.POST['password']
        user = authenticate(request,username=username, password=password)
        if user is not None:
            login(request, user)
            messages.success(request, "คุณได้เข้าสู่ระบบเรียบร้อยแล้ว")
            return redirect('home')
        else:
            messages.success(request, "Username หรือ Password ไม่ถูกต้อง")
            return redirect('home')
    else:
        return render(request, 'home.html',{'records':records})
```

home.html

```html
{% block content %}
    <div class="col-md-6 offset-md-3">
    {% if user.is_authenticated %}
        <h1>Records.....</h1>
        {% if records %}
            {% for record in records %}
                {{ record.first_name }}
                {{ record.last_name }}
                {{ record.email }}
                {{ record.phone }}
                {{ record.address }}
                {{ record.city }}
                {{ record.state }}
                {{ record.created_at }}
                {{ record.zipcode }}
                <br><br>
            {% endfor %}
```

Django CRM   Logout

Records.....

John Elder john@codemy.com 111 222 33333 10 West LasVegas Nv Dec. 2, 2023, 8:31 a.m. 89137

Mary Smith mary@gmail.com 0897513041 27 Mary Way Chicago IL Dec. 2, 2023, 8:32 a.m. 89541

Bootstrap Table

Home.html

```
{% block content %}
    <br>
    {% if user.is_authenticated %}
        <table class="table table-striped table-hover table-bordered">
            <thead class="table-dark">
              <tr>
                <th scope="col">first_name</th>
                <th scope="col">Email</th>
                <th scope="col">Phone</th>
                <th scope="col">Address</th>
                <th scope="col">City</th>
                <th scope="col">State</th>
                <th scope="col">Zipcode</th>
                <th scope="col">Created At</th>
                <th scope="col">ID</th>
              </tr>
            </thead>
            <tbody>
            {% if records %}
                {% for record in records %}
                    <tr>
                        <td>{{ record.first_name }} {{ record.last_name }}</td>
                        <td>{{ record.email }}</td>
                        <td>{{ record.phone }}</td>
                        <td>{{ record.address }}</td>
                        <td>{{ record.city }}</td>
                        <td>{{ record.state }}</td>
                        <td>{{ record.zipcode }}</td>
                        <td>{{ record.created_at }}</td>
                        <td>{{ record.id }}</td>
                    </tr>
                {% endfor %}
                {% endif %}
            </tbody>
        </table>
```

Django CRM   Logout

first_name	Email	Phone	Address	City	State	Zipcode	Created At	ID
John Elder	john@codemy.com	111 222 33333	10 West	LasVegas	Nv	89137	Dec. 2, 2023, 8:31 a.m.	1
Mary Smith	mary@gmail.com	0897513041	27 Mary Way	Chicago	IL	89541	Dec. 2, 2023, 8:32 a.m.	2

Link record.html

urls.py

```python
urlpatterns = [
    path('', views.home, name='home'),
    path('logout/', views.logout_user, name='logout'),
    path('register/', views.register_user, name='register'),
    path('record/<int:pk>', views.customer_record, name='record'),
]
```

views.py

```python
def customer_record(request, pk):
    if request.user.is_authenticated:
        customer_record = Record.objects.get(id=pk)
        return render(request, 'record.html',{
            'customer_record':customer_record,})
    else:
        messages.success(request,"You Must Be Logged In")
        return redirect('home')
```

record.html

```html
{% extends 'base.html' %}

{% block content %}

    <h1>Customer Record..</h1>
    <ul>
        <li>{{ customer_record.first_name }} {{ customer_record.last_name }}
        <li>{{ customer_record.email }}</li>
        <li>{{ customer_record.phone }}</li>
        <li>{{ customer_record.address }}</li>
        <li>{{ customer_record.city }}</li>
        <li>{{ customer_record.state }}</li>
        <li>{{ customer_record.zipcode }}</li>
        <li>{{ customer_record.created_at }}</li>
        <li>{{ customer_record.id }}</li>
    </ul>

{% endblock content %}
```

Home.html

```html
    <td>{{ record.created_at }}</td>
    <td><a href="{% url 'record' record.id %}" class="btn btn-success">{{ record.id }}</a></td>
tr>
```

Django CRM   Logout

Customer Record..

- Mary Smith
- mary@gmail.com
- 0897513041
- 27 Mary Way
- Chicago
- IL
- 89541
- Dec. 2, 2023, 8:32 a.m.
- 2

Bootstrap Card

Record.html

```
{% block content %}
    <h1>Customer Record..</h1>
    <div class="card">
        <div class="card-header">
            <h3>{{ customer_record.first_name }} {{ customer_record.last_name }}</h3>
        </div>
        <div class="card-body">
        <h5 class="card-title">Special title treatment</h5>
        <p class="card-text">
            <ul>
                <li>{{ customer_record.email }}</li>
                <li>{{ customer_record.phone }}</li>
                <li>{{ customer_record.address }}</li>
                <li>{{ customer_record.city }}</li>
                <li>{{ customer_record.state }}</li>
                <li>{{ customer_record.zipcode }}</li>
                <li>{{ customer_record.created_at }}</li>
                <li>{{ customer_record.id }}</li>
            </ul>
        </p>
        </div>
    </div> <br>
    <a href="{% url 'home' %}" class="btn btn-secondary">Back</a>
    <a href="{% url 'home' %}" class="btn btn-danger">Delete</a>
```

Django CRM   Logout

Customer Record..

John Elder

Special title treatment

- john@codemy.com
- 111 222 33333
- 10 West
- LasVegas
- Nv
- 89137
- Dec. 2, 2023, 8:31 a.m.
- 1

Back Delete

Delete Record

Urls.py

```python
urlpatterns = [
    path('', views.home, name='home'),
    path('logout/', views.logout_user, name='logout'),
    path('register/', views.register_user, name='register'),
    path('record/<int:pk>', views.customer_record, name='record'),
    path('delete_record/<int:pk>', views.delete_record, name='delete_record'),
]
```

Views.py

```python
def delete_record(request, pk):
    if request.user.is_authenticated:
        delete_it = Record.objects.get(id=pk)
        delete_it.delete()
        messages.success(request,"Record Delete Successfully!!")
        return redirect('home')
    else:
        messages.success(request,"Please Login")
        return redirect('home')
```

Record.html

```html
    </div> <br>
    <a href="{% url 'home' %}" class="btn btn-secondary">Back</a>
    <a href="{% url 'delete_record' customer_record.id %}" class="btn btn-danger">Delete</a>
```

Django CRM	Logout

Record Delete Successfully!!   ×

first_name	Email	Phone	Address	City	State	Zipcode	Created At	ID
John Elder	john@codemy.com	111 222 33333	10 West	LasVegas	Nv	89137	Dec. 2, 2023, 8:31 a.m.	1

Add Record

Urls.py

```
    path('record/<int:pk>', views.customer_record, name='record'),
    path('delete_record/<int:pk>', views.delete_record, name='delete_record'),
    path('add_record/', views.add_record, name='add_record'),
]
```

Navbar.html

```
        {% if user.is_authenticated %}
          <li class="nav-item">
            <a class="nav-link" href="{% url 'add_record' %}">Add Record</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="{% url 'logout' %}">Logout</a>
          </li>
```

Forms.py

```
# Create Add Record Form
class AddRecordForm(forms.ModelForm):
    first_name = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"First Name",
    last_name = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"Last Name", '
    email = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"Email", "class":'
    phone = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"Phone", "class":'
    address = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"Address", "clas
    city = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"City", "class":"fd
    state = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"State", "class":'
    zipcode = forms.CharField(required=True, widget=forms.widgets.TextInput(attrs={"placeholder":"Zipcode", "clas

    class Meta:
        model = Record
        exclude = ("user",)
```

Views.py

```
from django.contrib import messages
from .forms import SignUpForm, AddRecordForm
from .models import Record
```

```
def add_record(request):
    form = AddRecordForm(request.POST or None)
    if request.user.is_authenticated:
        if request.method == 'POST':
            if form.is_valid():
                add_record = form.save()
                messages.success(request, "Record Added...")
                return redirect('home')

        return render(request, 'add_record.html', {'form':form})
    else:
        messages.success(request, "Please Login...")
        return redirect('home')
```

Add_record.html

```
{% extends 'base.html' %}

{% block content %}

    <div class="col-md-6 offset-md-3">
        <h1>Add_Record...</h1>
        <form method="POST" action="{% url 'add_record' %}">
            {% csrf_token %}
            {{ form.as_p }}

            <button type="submit" class="btn btn-primary">Add Record</button>
        </form>
    </div>
{% endblock content %}
```

Django CRM   Add Record   Logout

Add_Record...

First Name

Last Name

Email

Phone

Address

City

State

Zipcode

Add Record

Update Record

Urls.py

```
    path('add_record/', views.add_record, name='add_record'),
    path('update_record/<int:pk>', views.update_record, name='update_record'),
]
```

Views.py

```python
def update_record(request, pk):
    if request.user.is_authenticated:
        current_record = Record.objects.get(id=pk)
        form = AddRecordForm(request.POST or None, instance=current_record)
        if form.is_valid():
            form.save()
            messages.success(request, "Record Update")
            return redirect('home')
        return render(request, 'apdate_record.html', {'form':form})
    else:
        messages.success(request, "Please Login...")
        return redirect('home')
```

Record.html

```html
    </div> <br>
    <a href="{% url 'home' %}" class="btn btn-secondary">Back</a>
    <a href="{% url 'delete_record' customer_record.id %}" class="btn btn-danger">Delete</a>
    <a href="{% url 'update_record' customer_record.id %}" class="btn btn-success">Update</a>
```

Update_record.html

```html
    <div class="col-md-6 offset-md-3">
        <h1>Update_Record...</h1>
        <form method="POST">
            {% csrf_token %}
            {{ form.as_p }}

            <button type="submit" class="btn btn-primary">Update Record</button>
        </form>
    </div>
```

Update_Record...

Ying test

Naja 2

mary@gmail.com

0897513041

Kohwang

moung

จันทบุรี

22000

Update Record