Subscribe Feature

**What is API key?**

Very generally speaking:

An API key simply identifies you, your request, your application.

If there is a public/private distinction, then the public key is one that you can distribute to others, to allow them to get some subset of information about you from the api. The private key is for your use only, and provides access to all of your data.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

An API key is a unique value that is assigned to a user of this service when he's accepted as a user of the service.

The service maintains all the issued keys and checks them at each request.

By looking at the supplied key at the request, a service checks whether it is a valid key to decide on whether to grant access to a user or not.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

API keys are just one way of authenticating users of web services.

**Blogs/views.py**

from marketing.forms import EmailSignupForm

def home(request):

subscribe\_form = EmailSignupForm()

queryset = Blog.objects.filter(featured=True).order\_by('-created\_at')

# others ...

context = {

'latest': queryset,

'title':'home',

'subscribe\_form' : subscribe\_form

}

return render(request, 'blogs/home.html', context)

**home.html**

<h4>Subscribe to our newsletter</h4>

<form action="{% url 'subscribe' %}" method="POST">

{% csrf\_token %}

{{ form|crispy }}

<input type="submit" value="Subscribe" class="btn btn-success">

</form>

urls.py

path('subscribe/', email\_list\_signup, name='subscribe'),

settings.py

MAILCHIMP\_API\_KEY = 'ced218ca675d02d9676b29c0b52e4c0a-us20'

MAILCHIMP\_DATA\_CENTER = 'us20'

MAILCHIMP\_EMAIL\_LIST\_ID = '4689d1293f'

marketing/models.py

class Signup(models.Model):

email = models.EmailField()

timestamp = models.DateTimeField(auto\_now\_add=True)

def \_\_str\_\_(self):

return self.email

marketing/forms.py

from django import forms

from .models import Signup

class EmailSignupForm(forms.ModelForm):

email = forms.EmailField(widget=forms.TextInput(attrs={

'type': 'email',

'name': 'email',

'class': 'form-control',

'id': 'email',

'placeholder': 'Type your email address'

}), label='')

class Meta:

model = Signup

fields = ('email',)

marketing/views.py

from django.contrib import messages

from django.http import HttpResponseRedirect

from .forms import EmailSignupForm

from .models import Signup

import json

import requests

MAILCHIMP\_API\_KEY = settings.MAILCHIMP\_API\_KEY

MAILCHIMP\_DATA\_CENTER = settings.MAILCHIMP\_DATA\_CENTER

MAILCHIMP\_EMAIL\_LIST\_ID = settings.MAILCHIMP\_EMAIL\_LIST\_ID

api\_url = 'https://{dc}.api.mailchimp.com/3.0'.format(dc=MAILCHIMP\_DATA\_CENTER)

members\_endpoint = '{api\_url}/lists/{list\_id}/members'.format(

api\_url=api\_url,

list\_id=MAILCHIMP\_EMAIL\_LIST\_ID

)

def subscribe(email):

data = {

"email\_address": email,

"status": "subscribed"

}

r = requests.post(

members\_endpoint,

auth=("", MAILCHIMP\_API\_KEY),

data=json.dumps(data)

)

return r.status\_code, r.json()

def email\_list\_signup(request):

form = EmailSignupForm(request.POST or None)

if request.method == "POST":

if form.is\_valid():

email\_signup\_qs =

Signup.objects.filter(email=form.instance.email)

if email\_signup\_qs.exists():

messages.info(request, "You are already subscribed")

else:

subscribe(form.instance.email)

form.save()

return HttpResponseRedirect(request.META.get('HTTP\_REFERER'))