**Send Emails Using Django**

Send emails using Django to users automatically via the Django mail library, an extension of the **smtplib** module of Python.

What is SMTP?

SMTP server stands for **Simple Mail Transfer Protocol**, which is a community protocol for electronic mail transmission. SMTP consists of a set of community guidelines that allows, softwares to transmit Mail over the internet. It is a program that sends mail to other users using email addresses.

**SMTP server**: is the application that sends/receives or relays outgoing mails from one client to another.

For Example, Google’s SMTP server address is **smtp.gmail.com.**Similarly, Apple’s SMT server is **smtp.apple.com,**etc.

**1. Additions to Settings.py**

In the settings.py file, we need to add the following email [dictionary variable](https://www.askpython.com/python/dictionary/python-dictionary-dict-tutorial):

| EMAILS **=** [      {          EMAIL\_BACKEND **=** 'django.core.mail.backends.smtp.EmailBackend',          EMAIL\_HOST **=** 'smtp.gmail.com',          EMAIL\_PORT **=** 8000,          EMAIL\_HOST\_USER **=** 'xyz@gmail.com',          EMAIL\_HOST\_PASSWORD **=** 'xyz',          EMAIL\_USE\_TLS **=** True,          EMAIL\_USE\_SSL **=** False,          }  ] |
| --- |

Make sure you change the SMTP\_HOST with the SMTP server from your provider.

**2. Difference between TLS and SSL**

The functioning of both **TLS**and**SSL** is the same; they are used to encrypt data and information between servers/clients or systems. **TLS (Transport Layer Security)**is the successor protocol to **SSL(Secure Sockets Layer)**.

**TLS** or **SSL** depends on the server you are using, in the case of Gmail, it is **TLS**.

Writing Code to send Emails

**1. Send emails individually using send\_mail()**

send\_mail(

    subject **=** 'This is Subject Message',

    message **=** 'This is email Message',

    from\_email **=** 'Sender Email ID',

    recipient\_list **=** 'Recipient's Email',

    fail\_silently **=** False,

    html\_messages **=** 'HTML messages',

)

Views.py:

| **from** django.core.mail **import** send\_mail    send\_mail(      subject **=** 'Test Mail',      message **=** 'Kindly Ignore',      from\_email **=** 'noreply@gmail.com',      recipient\_list **=** ['recepient.email@gmail.com',],      fail\_silently **=** False,  ) |
| --- |

Send Emails using Django Email**Message() Method**

This method is used to send advanced mails, having features like BCC, CC, or attachments. This Django Method is handled by Email Backend.

The Email Backend class requires three steps:

**connection.open**(): Ensures a long-term connection for sending mails.

**connection.close()**: Stops the established connection

**send\_message**():Sends the mails; if the connection was not already open, then it temporarily opens the connection to send the mail.

The placeholder syntax is :

email1 **=** EmailMessage(

    subject **=** 'This is subject',

    message **=** 'This is message',

    from\_email **=** 'from@gmail.com',

    to **=** ['mail1@gmail.com',],

    bcc **=** ['mail2@gmail.com'],

    cc **=** ['mail3@gmail.com'],

)

Therefore add the following code in view.py:

| **from** django.core **import** mail  connection **=** mail.get.connection()    connection.open()    email **=** mail.EmailMessage(      subject **=** 'Test Mail',      message **=** 'Kindly Ignore',      from\_email **=** 'noreply@gmail.com',      to **=** ['vn.ask1@gmail.com',],      bcc **=** ['vn.ask2@gmail.com'],  )    connection.send\_messages(email)  connection.close() |
| --- |

**File Attachment**:

EmailMessages() method provides .**attach\_file(‘path to the file’)**method to send attachments along with your email message

email1.attach\_file('home/Desktop/books.jpg')

**Implementing the Code**

 email message. You can add the following code to attach the file:

| email1.attach\_file('home/Desktop/books.jpg') |
| --- |

**Implementing the Code**

Now that we’ve discussed the individual sections of code let’s put them all together and figure out how it works. Therefore add a sample script (combining all the codes from the above section) into your **views.py**:

| **from** django.core.mail **import** send\_mail    #Sending mails individualy  send\_mail(      subject **=** 'Test Send Mail #1',      message **=** 'Kindly Ignore',      from\_email **=** 'noreply@gmail.com',      recipient\_list **=** ['recepient.email@gmail.com',],      fail\_silently **=** False,  )    #Sending mass mails  message1 **=** ('Test Subject message1 #2', 'This is Message','noreply@gmail.com',['s.ask1@gmail.com','s.ask2@gmail.com'])  message2 **=** ('Test Subject message2 #2', 'This is Message','noreply@gmail.com',['s.ask1@gmail.com','s.ask2@gmail.com'])    send\_mass\_mail(      (message1,message2),      fail\_silently **=** False,  )    #Sending mails using EmailMessage along with attachments  **from** django.core **import** mail  connection **=** mail.get.connection()    connection.open()  email **=** mail.EmailMessage(      subject **=** 'Test Mail',      message **=** 'Kindly Ignore',      from\_email **=** 'noreply@gmail.com',      to **=** ['vn.ask1@gmail.com',],      bcc **=** ['vn.ask2@gmail.com'],  )  email.attach\_file('home/Desktop/books.jpg')  connection.send\_messages(email)  connection.close() |
| --- |

Note the first time you use Gmail to send emails; you might get an SMTP error due to the default security settings.

For that, go to **manage your account**in your sender gmail account

Then go to **Security** present on the top panel and turn on **Less Secure access.**

Views.py

from django.shortcuts import render

# Create your views here.

from django.core.mail import send\_mail

from django.conf import settings

from django.http import HttpResponse

def sendmail(request):

    message="Hello Django"

    subject="Test"

    from\_email=settings.EMAIL\_HOST\_USER

    recipient\_list = ['nagarajuv9494@gmail.com','aditya.gupta38@gmail.com']

    send\_mail(subject,message,from\_email,recipient\_list,fail\_silently=False,auth\_user='django.nit@gmail.com',auth\_password='ydcdisrvnblfqvuh')

    return HttpResponse("Message Sent")

urls.py

from django.contrib import admin

from django.urls import path

from app1 import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('',views.sendmail,name='sendmail')

]

Settings.py

EMAIL\_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'

EMAIL\_HOST = 'smtp.gmail.com'

EMAIL\_PORT = 587

EMAIL\_HOST\_USER = 'django.nit@gmail.com'

EMAIL\_HOST\_PASSWORD = 'a12345$%'

EMAIL\_USE\_TLS = True

EMAIL\_USE\_SSL = False