**Django Celery**

* Requirements for celery:
* Install celery and redis using
* pip install celery
* Need to install redis serve:

**BASIC SETUP**

* Create django project
* In settings.py

# Celery configration

CELERY\_BROKER\_URL = 'redis://127.0.0.1:6379'

CELERY\_ACCEPT\_CONTENT = ['application/json']

CELERY\_RESULT\_SERIALIZER = 'json'

CELERY\_TASK\_SERIALIZER = 'json'

CELERY\_TIMEZONE = 'Asia/Kolkata'

* Create new file inside project file name it as celery.py
* In celery.py

from \_\_future\_\_ import absolute\_import, unicode\_literals

from argparse import Namespace

import os

from unicodedata import name

from celery import Celery

from django.conf import settings

os.environ.setdefault('DJANGO\_SETTINGS\_MODULE','celery\_django\_project.settings') #appname

app = Celery('celery\_django\_project')#appname

app.conf.enable\_utc = False

app.conf.update(timezone = 'Asia/Kolkata')

app.config\_from\_object(settings, namespace = 'CELERY')

app.autodiscover\_tasks()

@app.task(bind = True)

def debug\_task(self):

    print(f"Request: {self.request!r}")

* Create tasks.py inside app folder

from celery import shared\_task

@shared\_task(bind=True)

def test\_task(self):

list1=[]

for i in range(10):

list1.append(i)

return list1

* In views.py

from django.http import HttpResponse

from django.shortcuts import render

from .tasks import \*

def index(request):

    data = test\_task.delay()

    return HttpResponse(f'{data}')

* To run celery server   
  celery –A projectname.celery –pool=solo –l debug or info
* Run django server alsofrom .celery import app as celery\_app
* \_\_all\_\_ = ('celery\_app',)
* Now add this in settings.py

To see task status

* Add this line under celery settings

CELERY\_RESULT\_BACKEND = 'django-db'

* App this line into INSTALLAPPS

'django\_celery\_results'

And install django celery result model using

Pip install django-celery-results

* In init.py in folder of project

from .celery import app as celery\_app

\_\_all\_\_ = ('celery\_app',)

After this apply maigrations

CELERY BEAT

* Now install celery beat lib

Pip install django-celery-beat

Add this to celery.py

#Celery beat settings

app.conf.beat\_schedule = {

}

**Send Mail using Celery**

* Do the basic configuration mention above
* In tasks.py

from django.contrib.auth import get\_user\_model

from celery import shared\_task

from django.core.mail import send\_mail

@shared\_task(bind=True)

def mail\_send\_task(self):

    user = get\_user\_model().objects.all()

    for i in user:

        send\_mail(

            'Celery test mail',

            'mail malya pachi ek vakhat ma inform karva namravananti',

            'siddhikavaiya1@gmail.com',

            [i.email],

        )

    return "Done"

Send Mail using Schedule and celery beat

* To schedule task
* In celery.py

#Celery beat settings

from celery.schedules import crontab

app.conf.beat\_schedule = {

    'send-mail-at-5': {

        'task' : 'celery\_email.mail\_send\_task',

        'schedule' : crontab(hour=16 , minute=40)

# arguments in crontab may be hour, minute, day, month, date

    }

}

To run the celery beat server run this command

celery -A celery\_email beat -l INFO