

















<u>www.linkedin.com/in/shanmuga-priya-e-tech2</u>





















Episode-6 Scheduling evon Jobs

what is Scheduling oron Jobs?

of we need to nun a particular task at certain intervals daily we schedule those task with own to run those tasks automatically after certain periods.

npm i node-cron.

Step1: create a New jile to nun cron job

In utils jolder create a new file called cronjobs. js cit can be anything and inside it require a node-oron module that we installed.

eg: lownjob.js

const cron = require c'node-cron') - these star represents time Coron. Schedule (" * * * * * * * *) => { console log ("Hello world" + new Date ())

second how I month (1-12) week day minutes

- if we put 6 stars means the task will nun for every sec -) by 5 stars, the task will nun for every min & so on.

Stop 2: place it in app. is inorder to nur this cron jobs as soon as application starts we need to place it is the index file (i.e) app. is gile. We just need to require this file in app. is tats it.

```
-) is a website where we can experement with this
 Crontab. gwu
stort strings eg: for 8'0 clock > 0 8 * * * this will schedule

min hr day month week

a task to run at 8 Am everyday.
code for sending Email to users who recieved connection request
  yesterday:
          task is to send a email everyday at 8:00 AM for the users
who have received the connection request previous day.
         and inside it require of note-our module that we it shorts
           const cron = require c'node-cron')
           Const { sub Days, start Of Day, end Of Day 3 = nequire ("date-jns")
                                       L'une use date fins' package to calculate
           const serd Email = require ("./send Email")
           const connectReq = require ("../models/connectionRequest)
            ischeduling own Job
               Cron. Schedule ("0 8 * * * "; asyn()=) { july gives Date of yesterday
                        const yesterday = subDays (new Date (), 1)
            Const Start = startOfDay(yesterday) it gives time stams
             const End = And of Day Cyesterday)
                        nquerying Collection
                        const pendingReg = await connectReg. find ( {
                             status: "intexested",
                            Created At: { sigte: Start, $ lt: End 3
                        3) · populate ("from ther Id to User Id)
```

```
Hextracting the email Id of the reg receivers.
      const list 0; Emails = [... new Set ( pending Reg . map ( c reg) =)
                                        neg. tollser Id. email Id))]
        we are using Set to find a unique email Id becoz one email Id
        can recieve so much reg.
                                     During the mail for we created earlier on episode 5.
       for (const emails of list Of Emails) {
               Const xes = await sendEmail . nun (
                      "New friend Requests are pending for" + email,
                     - Thease log in to DevTinder to accept the request"
              Console: log (res)
          g (atch (evr) §
                console log (our)
    9 catch cours
          console. log (ever)
- This is perfect for small application as we are looping the email
and sending it blocks the code execution
- Jos larger app we should do either queveing cor batching using
some packages like bee Queue (or) Bull MQ' (or) somply can use
Amazon SES Bulk email seroling option.
```