



118.4k 18

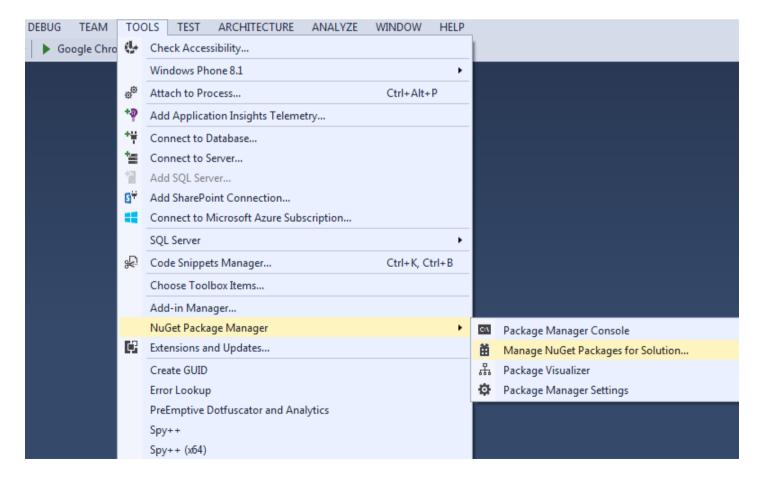
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Introduction

Job scheduling in ASP.NET MVC with Quartz.NET is an open source job scheduling framework written in C# for .NET. job scheduling of background tasks that can be used for any application system. Sometimes everyone gets some issue like bulk email sending one by one that takes lot of time. W can use this job scheduling; it works on background tasks in our Application (MVC or ASP.NET websites)

Figure 1:

First create a application and install Quartz.NET in our application is via Nuget,



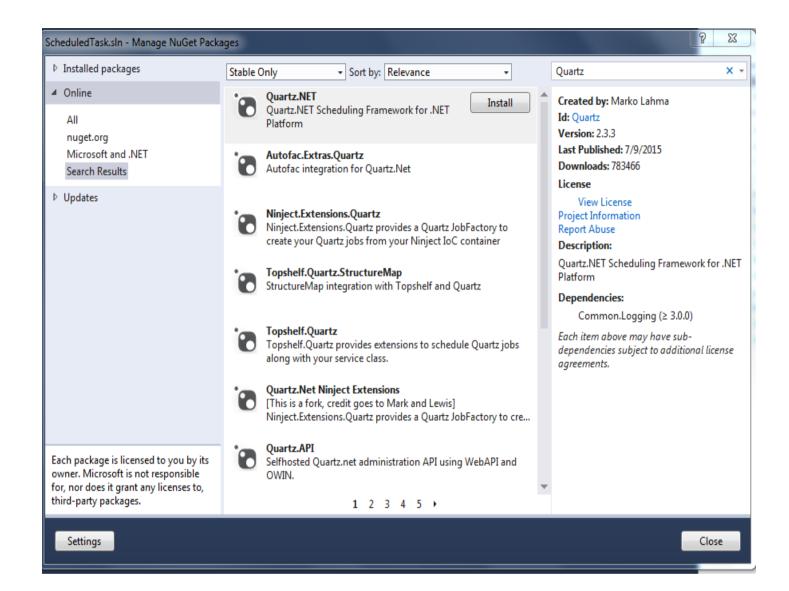
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Figure 2:

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Three major categories are:

- 1. Defining Job
- 2. Job Trigger
- 3. Job Schedule

Job is the task, Job Trigger is when the job is executed. Job and trigger are combined for execution with the JobScheduler . We have to create a job class which implements the IJob interface defined by quartz.net. This class is called by the quartz.net scheduler at the configured time and should therefore contain your send mail functionality

Defining Job

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```
using System;
V4.
     using system.web,
05.
     using Quartz;
06.
     using System.Net;
07.
     using System.Net.Mail;
08.
09.
10.
     namespace ScheduledTask.Models
11.
     {
          public class Jobclass:IJob
12.
13.
          {
              public void Execute(IJobExecutionContext context)
14.
15.
16.
                  using (var message = new MailMessage("testuser@gmail.com", "testdestina
17.
18.
                      message.Subject = "Message Subject test";
                      message.Body = "Message body test at " + DateTime.Now;
19.
                      using (SmtpClient client = new SmtpClient
20.
21.
                      {
22.
                           EnableSsl = true,
23.
                          Host = "smtp.gmail.com",
24.
                          Port = 587,
25.
                          Credentials = new NetworkCredential("testuser@gmail.com", "1235
26.
                      })
27.
                      {
                           client.Send(message);
28.
                      }
29.
30.
                  }
              }
31.
32.
          }
33.
34.
     }
```

Job Trigger

Actual code has been placed in a method called Start A scheduler is created and started the job is created using the Quartz.NET JobBuilder.Create<Jobclass> method, where <u>Jobclass</u> is the type of job to be created. Then a <u>trigger</u> is created when a Job should be executed.

We want to run this Job WithIntervalInSeconds once in Seconds . So our trigger definition will look like,

```
01.
     using System;
02.
     using System.Collections.Generic;
03.
     using System.Linq;
04.
     using System.Web;
05.
     using Quartz;
06.
     using Quartz.Impl;
07.
08.
     namespace ScheduledTask.Models
09.
     {
10.
          public class JobScheduler
```

There are different types of triggers – Time based, Calendar, Schedule, etc.

JobScheduler in Global asax

The Application_Start event handler in the Global.asax.cs file place for invoke the start method of the JobScheduler.Start, as it would be called the first time the application is started.

Summary:

We learned open source job Scheduling Background Tasks in ASP.NET using Quartz.NET. I hope this article is useful for all .NET beginners.

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- Performing CRUD Operations Using jqGrid In ASP.NET MVC
- Attribute Routing in ASP.NET Web API 2

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Schedule Background Jobs Using Hangfire In ASP.NET Core

Hangfire is an open source library to schedule and execute background jobs in .NET applications. This article is intended to demonstrate how to set up Hangfire and write some code to schedule an initial job in the ASP.NET Core project.



Prasanth Radhakrishnan

Web Developer And Programmer In Microsoft Technologies. Here in IT industry for more than 3+ year. Learning new technologies and sharing knowledge, traveling and reading books.



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This is Really a very bad idea of using Quartz in ASP.NET as IIS will stop its Worker Process if there's no request .For IIS to avoid stopping,need to change Pool setting to Always Running ,but it may effect Application Performance.

Parshuram Kalvikatte Dec 19, 2019

1881 3 0 1 0 Reply



I have used simple scheduler for a job and it's working fine on local server but on remote server it stops everytime Application_End event is fired. How could i make it work there?

swati Jul 19, 2019

1872 12 0 0 1 Reply

2

How you solve this problem in remote server.

Ashutosh Kushawaha Nov 11, 2019

1878 6 0

Nice....I did as instruct, and when I deploy the project to IIS, it does not work. Please help me!!!!

nitesh sahu Dec 09, 2017

1717 167 0 0 Reply



Nice....I did as instruct, and when I deploy the project to IIS, it does not work. Please help me!!!

Nguy?n Quân Minh Jan 11, 2017

1831 53 0 0 Reply



good one

Sr Karthiga Apr 22, 2016

163 12.1k 919.7k 0 Reply



Can I run 10k jobs in single application? Suppose I have auction facility in my application and when auction will expire then automatically email will throw to owner that your auction has been expired. So how can I create dynamic Jobs auction wise because there are multiple auctions and multiple sellers.

Amin Jariwala Apr 22, 2016

1881 3 0 1 0 Reply



Good Buddy!!

Rajeesh Menoth Apr 12, 2016

71 22.8k 1.2m 0 1 Reply



Thank you :)

1404 483 486.4k

Prasanth Radhakrishnan Apr 13, 2016

0



362 5.3k 22k

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thanks for you are feedback:)

Good one.. Jaipal Reddy

498 3.7k 4.1m

Apr 12, 2016

Reply



nice

Mohammed Ibrahim 555 3.1k 702.6k

Apr 11, 2016

Reply

Thank You

Apr 12, 2016

rasanth Radhakrishnan 1404 483 486.4k

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