

Re: Memory leak in ASP.NET web site

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet/2004-06/1987.html>

From: ASP.Confused (*anonymous_at_*)

Date: 06/08/04

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Also make sure that if you have any references you don't need, to dereference them.

"Jon Davis" <jon@REMOVE.ME.accentra.net> wrote in message news:eWi8gcZTEHA.2972@TK2MSFTNGP12.phx.gbl...

> *I'm reposting this because I really need some advice.*

>

> *I have a web app that makes many queries to the database on every page. In*

> *order to save development effort, I've consolidated all database querying to*

> *methods in a single static class, so whenever I need data, I pass a SQL*

> *string to a method and I am passed a datareader or else individual values*

> *(string, integer, etc).*

>

> *There is a horrible memory leak in this application. Just one page load*

> *results in a loss of about 50 MB. I COULD LIVE WITH THIS if only the memory*

> *would be restored as soon as the web page response is finished, as I just*

> *added another 512 MB of RAM to the server and there is never more than two*

> *or three users hitting the site at the same time (there may be more users*

> *at*

> *the same time, but within page load time frame there's never more than two*

> *or three). I'm watching the Task Manager report memory usage skyrocketing*

> *from 250 or so all the way up to 800MB in one user session, and it is*

> *never*

> *restored until SQL Server and IIS services are restarted. SQL server takes*

> *up about 1/3 of the excessive memory loss, and IIS takes up about 2/3 of*

> *the*

> *excessive memory loss.*

>

> *Here is what I have done to try to resolve this matter.*

>

> *1. All generic functions that create datareaders to retrieve individual*

> *values from them now forcefully close the datareader (but not necessarily*

> *the connection).*

>

> *2. All database connections and datareaders are stored into ArrayList*

> objects which are stored in the Session. (Dangerous, I know! ... but
please
> follow me.)
>
> 3. All web pages that utilize these database functions inherit from a
> CommonPage class. I have created a deconstructor in CommonPage that goes
> through all the objects in the connections and datareader ArrayLists in
the
> Session and *closes* them and removes them from the ArrayLists.
>
> 4. An "AppUser" object, stored in the Session object, had been created
with
> a cache so that the data retrieved from the database would remain in
memory
> to speed up page loads. The cache is now destroyed in the CurrentPage
> deconstructor.
>
> 5. The garbage collector is executed in the deconstructor.
>
> Nothing is being stored in the Application collection.
>
> The end result of the above is SOME savings of RAM on the development
> machine (about 20% less loss), but little no change on the server for some
> reason, though I'm not sure. The development machine is running XP Pro and
> the server is 2003. In any case, a person still cannot go through the
entire
> web site (a web-based survey) without crashing the server.
>
> I have been pulling my hair out for a week or two trying to figure out
what
> the cause of this mess is. This is very important to me.
>
> Please help, anybody!
>
> Jon
>
>