

Re: Too many objects loaded at the same time and cause OutOfMemory exception.

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet/2007-01/msg03708.html>

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- *From:* "Mark Fitzpatrick" <[markfitz@xxxxxxxxxx](mailto:markfitz@xxxxxxxxxx)>
  - *Date:* Mon, 29 Jan 2007 19:05:07 -0600
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Elaine,

Stored procedures won't necessarily help here, they would simply push the select and other data access mechanisms onto the database server, though they will improve the speed of the queries slightly since they will allow the database to pre-plan the implementation. Stored Procedures will also drastically improve your security since they promote parametrized queries and help avoid SQL Injection attacks. You're still stuck with the application design overall. It seems to be a rather cumbersome design to say the least. There should be a way to load objects without having to load all of these collections. I think a better, more direct approach would need to be taken. This would make sense if you were drilling down into a data warehouse and using a pivot table and incrementally loading data as needed.

The garbage collection should occur sometime after the page unloads. You can attempt to speed it up by calling the dispose method on the collections (if available) and then setting them to null. I don't think this architecture will work very well as it doesn't sound very stable at all. You should be able to create functionality to get this sort of data directly from the db as there should be no need to call all these objects just get the results of what should be a common type of sql query.

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Hope this helps,  
Mark Fitzpatrick  
Former Microsoft FrontPage MVP 1997-2006

"elaine" <[elain.sun@xxxxxxxxxx](mailto:elain.sun@xxxxxxxxxx)> wrote in message  
[news:1170116273.791877.262960@xx](mailto:news:1170116273.791877.262960@xx)

I'm working on a .net web application. The architect of this web application is quite different than other web applications i worked before. Since we use a set of tools to generate most of the basic code. Every table in the database related to an object in the application. There is no stored procedures in database; In every object of the application, the tool generates methods for basic database operations like insert, delete, update, selete, and methods

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to compose a select query inside the table(object)

But it definitely is a bad design, since we have more and more users, big performance issues coming out when generating reports for users. For example, if I use this architect for a school, I can easily create objects of grade, class, student, lesson, semester, now let's say I have 6 grades, each grade has 10 class, each class has 20 students, each student has 5 lessons. If I want to generate a score report for all students's score in fall of 2006, I have to first load grade object collection, loop into grade collection; load class object collection, loop into class collection; load student object collection, loop into student collection; load lesson object collection, loop into lesson collection. I don't know how .net garbage collection will work on this situation, whether or not it does load all  $6 \times 10 \times 20 \times 5 = 6000$  objects in memory at the same time. I noticed a huge memory overhead for aspnet\_ws process, then I got Service Unavailable error in my browser, and the memory of aspnet\_ws back to normal.

Does anyone know how .net framework works on my situation? Any resolution to this OutOfMemory issue except using stored procedure? I don't think asynchronous process will help, what do you think? What's the best way to scale out for the current system?

thank you for your help,  
-Elaine