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# Caching In ASP.NET MVC

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### Caching

Caching is used to improve the performance in ASP.NET MVC. Caching is a technique which stores something in memory that is being used frequently to provide better performance. In ASP.NET MVC, OutputCache attribute is used for applying Caching. OutputCaching will store the output of a Controller in memory and if any other request comes for the same, it will return it from cache result.

OutputCache attribute can have a parameter.

### Duration

It describes the time in seconds.

The example of duration is given below.

```
01. [OutputCache(Duration = 60)]
02. public ActionResult Index() {
03.     var emps = from e in db.Employees
04.     orderby e.ID
05.     select e;
06.     return View(emps);
07. }
```

### VaryByPara

It describes cache will be stored on the basis of a parameter. Cache will be stored on the basis of the list of semicolon separated by a string.

The example of VaryByParam is given below.

```
01. [OutputCache(Duration = 60, VaryByParam = "Id")]
02. public ActionResult Index(int Id) {
03.     var emps = from e in db.Employees where e.DeptID = Id
04.     orderby e.ID
05.     select e;
06.     return View(emps);
07. }
```

### Location

It specifies where the cache is stored. Below is options available for locations



- Client- Content is cached on the Web Browser.
- Server- Content is cached on the Web Server.

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- ServerAndClient- Content is cached on the Web Server and the Web Browser.
- None- Content is not cached anywhere.

Now, the example of Location is given below.

```
01. [OutputCache(Duration = 60, VaryByParam = "Id", , Location = OutputCacheLocation.Client)]
02. public ActionResult Index(int Id) {
03.     var emps = from e in db.Employees where e.DeptID = Id
04.     orderby e.ID
05.     select e;
06.     return View(emps);
07. }
```

## CacheProfile

CacheProfile is another way to handle cache. You can create profiles in web.config.

The example is given below.

### In web.config

```
01. <aching>
02.     <outputCacheSettings>
03.         <outputCacheProfiles>
04.             <add name="Long" duration="60" varyByParam="Id" />
05.             <add name="Medium" duration="60" varyByParam="none" />
06.             <add name="Short" duration="10" varyByParam="none" /> </outputCacheProfiles>
07.         </outputCacheSettings>
08.     </aching>
```

### In Controller

```
01. [OutputCache(CacheProfile = "Long")]
02. public ActionResult Index(int Id) {
03.     var emps = from e in db.Employees where e.DeptID = Id
04.     orderby e.ID
05.     select e;
06.     return View(emps);
07. }
```

ASP.NET

MVC



Pradeep Yadav *TOP 1000*

<http://www.c-sharpcorner.com/members/pradeep-yadav4>

649

116k



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What is the default Duration of output cache?

Asif Iqbal

1495 3 0

Nov 30, 2017

0 0 Reply



If i want to cache action by two parameter instead of one the what will be the code look like ? what is the meaning of varyByParam="none" ?

tri\_inn

895 719 26k

May 30, 2017

0 1 Reply



[OutputCache(Duration = 60, VaryByParam = "Id;Name", , Location = OutputCacheLocation.Client)] . And If you do not want to specify a parameter to vary cached content, set the value to none.

Pradeep Yadav

649 1.4k 116k

May 30, 2017

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