**BUNDLING AND MINIFICATION**

Bundling and minification techniques were introduced in MVC 4 to improve request load time. Bundling allow us to load the bunch of static files from the server into one http request.

**Advantage of BUNDLING and MINIFICAITON**

1. It improves the web page load time.
2. This is the performance optimization technique

Suppose in a particular web page 25 css and 30 Java Script files so total 55 files are there so for load complete web page browser required **55 http load request**. Bundle compress or combine the multiple file in single file so single file can be download in single request

Minification reduces the file size so overall load of the website will be reducing. So how the file in minimize in minificaiton process it removes the comment, Remove white spaces, Shorten Variable name so after doing these sort of minification we received the minified version of java script and css files

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Bundle Types:

MVC 5 includes following bundle classes in System.web.Optimization namespace:

**ScriptBundle**: ScriptBundle is responsible for JavaScript minification of single or multiple script files.

**StyleBundle**: StyleBundle is responsible for CSS minification of single or multiple style sheet files.

**DynamicFolderBundle**: Represents a Bundle object that ASP.NET creates from a folder that contains files of the same type.

All the above bundle classes are included in *System.Web.Optimization.Bundle* namespace and derived from [Bundle class](http://msdn.microsoft.com/en-us/library/system.web.optimization.bundle(v=vs.110).aspx).

### Points to Remember :

1. Bundling and Minification minimize static script or css files loading time therby minimize page loading time.
2. MVC framework provides ScriptBundle, StyleBundle and DynamicFolderBundle classes.
3. ScriptBundle does minification of JavaScript files.
4. StyleBundle does minification of CSS files.

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