**Note:**

**Development Environment:** Visual Studio 2017, .NET Framework 4.6.2, C#, ASP.NET MVC 5, LINQ, HTML5, CSS3, JavaScript, jQuery, typeahead, Ajax, Bootstrap, SolrNet, Apache-solr

**Pre-condiftion:**

1. Need to download Bitnami Apache Solr.

I am using vertion **bitnami-solr-7.6.0-1-windows-x64-installer.exe**, you can find at:

<https://bitnami.com/stack/solr/installer>

1. Install Bitnami Apache Solr on your computer. The following are my options:

Apache web server port: **81**

Login user: **user**

Password: **12345**

Please make you are using the same username and password as mine; otherwise you cannot connect to Solr server and run **SolrNetSearchApp.io** project, since the project is using this user name and password.

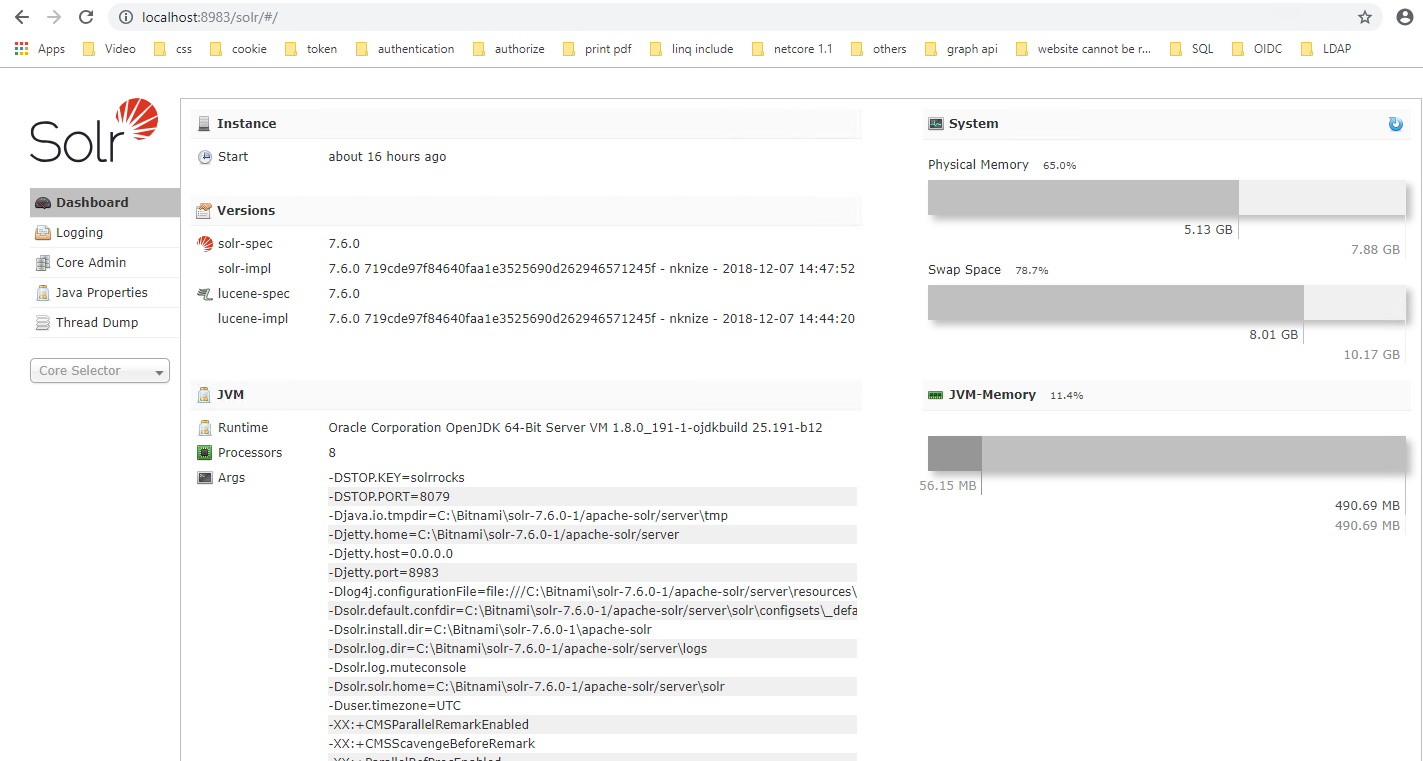
1. Create your solr core with command line: .\bin\solr create\_core -c wenhuicore



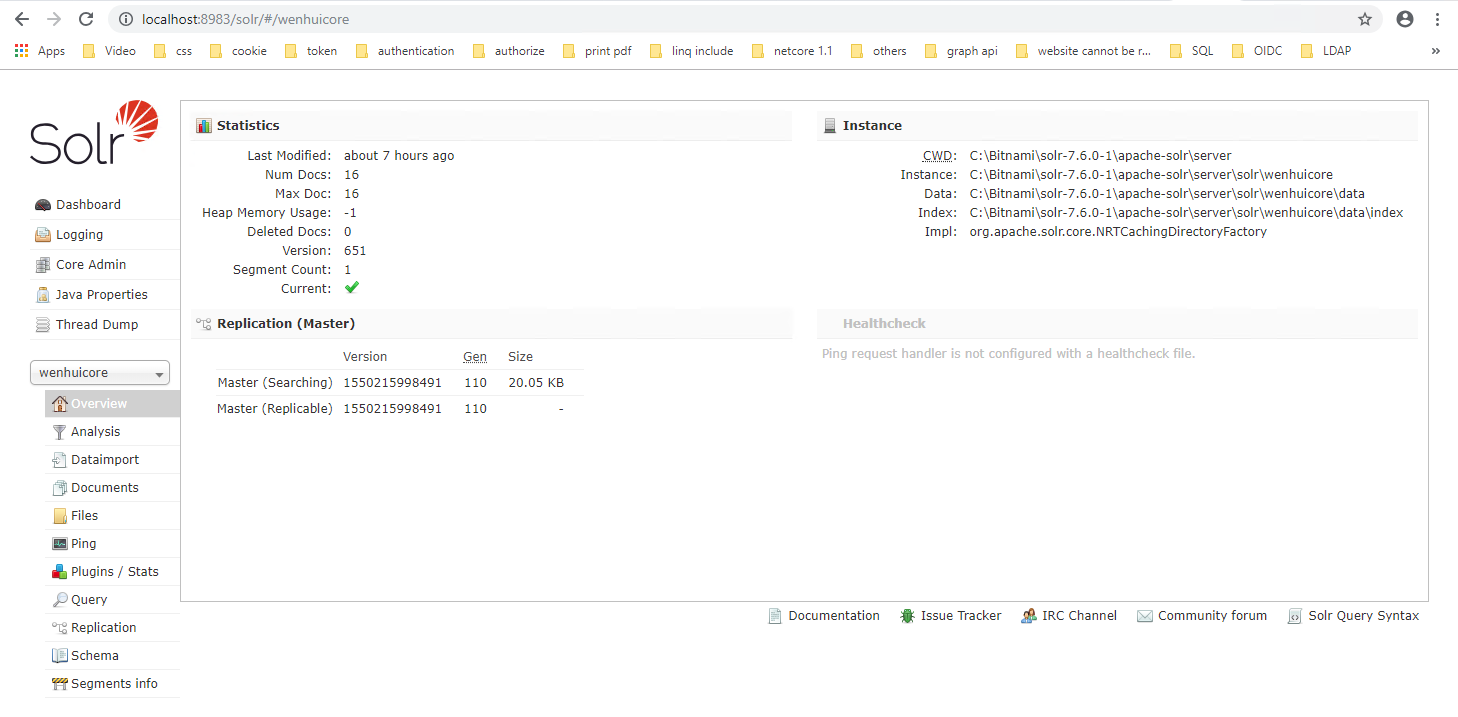
1. Start Apache Solr server with command line: \bin\solr.cmd start –f



1. Enter <http://localhost:8983/solr/> in chrome bowser and verify if Solr Server is running.



1. Choose **wenhuicore** core

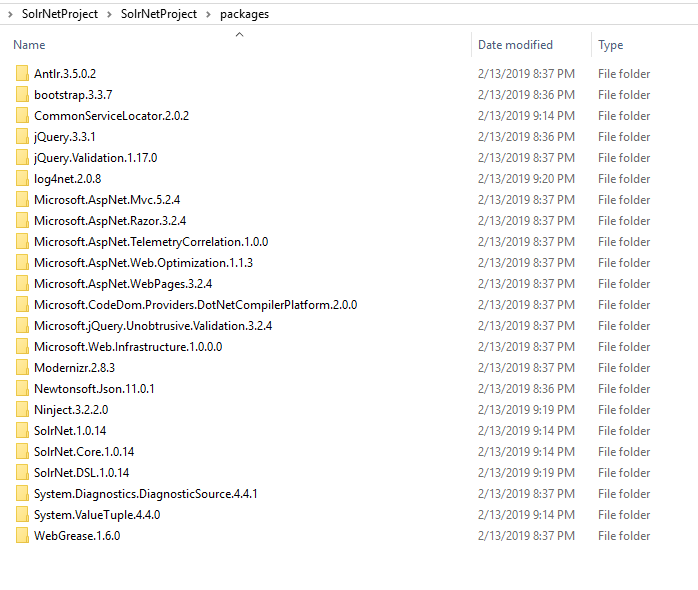


1. Load SolrNetProject in Visual Studio 2017
2. Go to **C:\Bitnami\solr-7.6.0-1\apache-solr\server\solr\wenhuicore** and Change field datatype in **managed-schema.xml**; or just use my managed-schema.xml to replace yours.
3. Restart Apache Solr server with command line
4. Install the [SpellCheckComponent](http://wiki.apache.org/solr/SpellCheckComponent) in the standard request handle make sure Apache Solr server support spelling check. please reference

<https://github.com/SolrNet/SolrNet/blob/master/Documentation/Spell-checking.md>

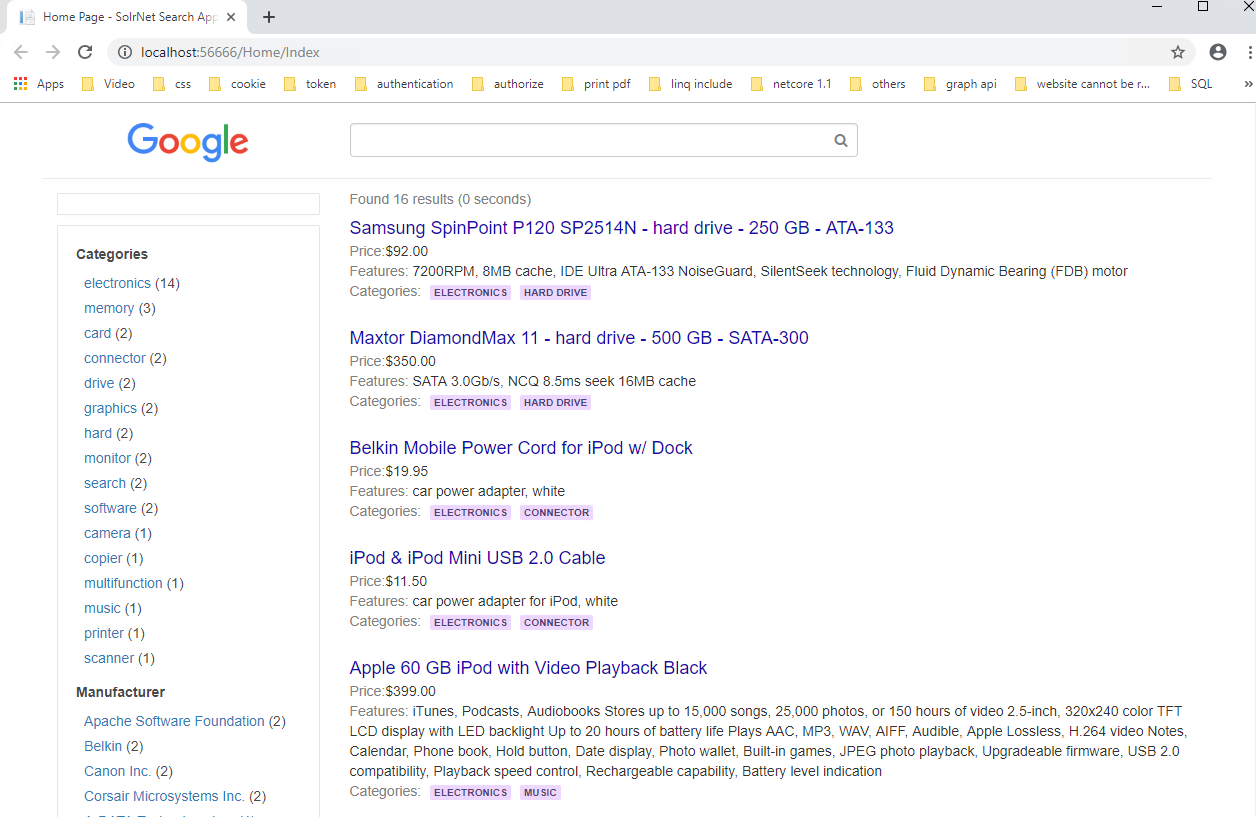
change <lst name="spellchecker">...</lst> and <requestHandler name="/spell">...</requestHandler>; or just use **my solrconfig.xml** to replace yours

1. once mading changes with solrconfig.xml and/or managed-schema.xml, restart Apache Solr server is necessary.
2. The following list are the packages which are need to run the application in Visual Studio 2017

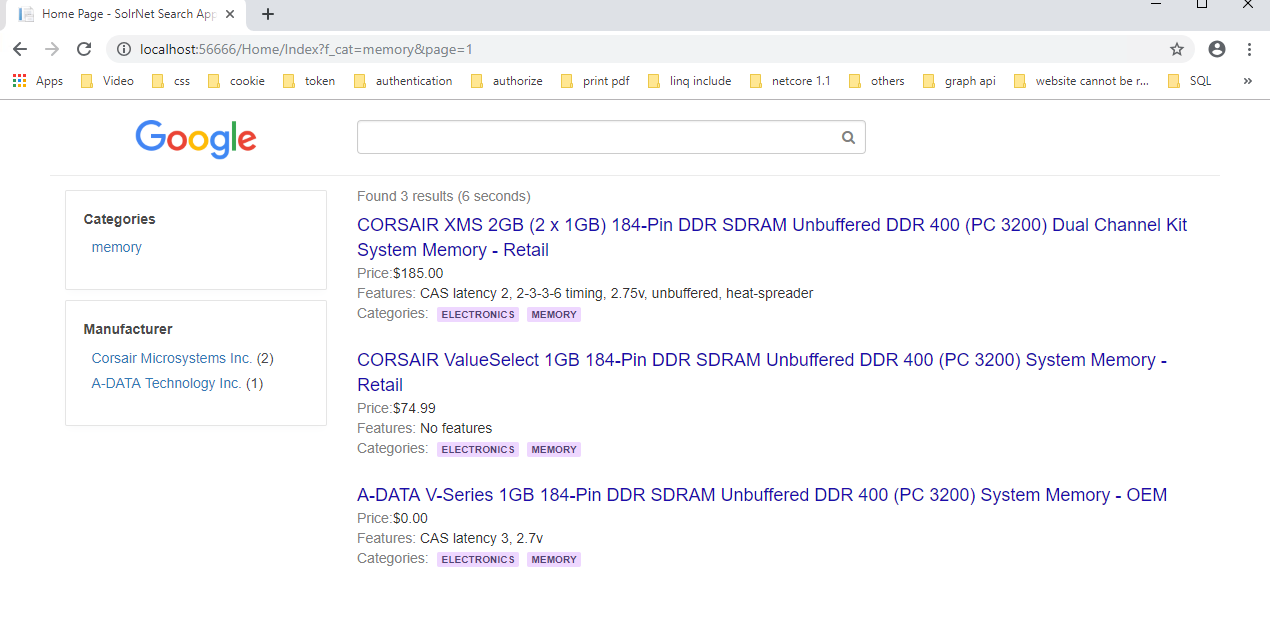


**User Manual**

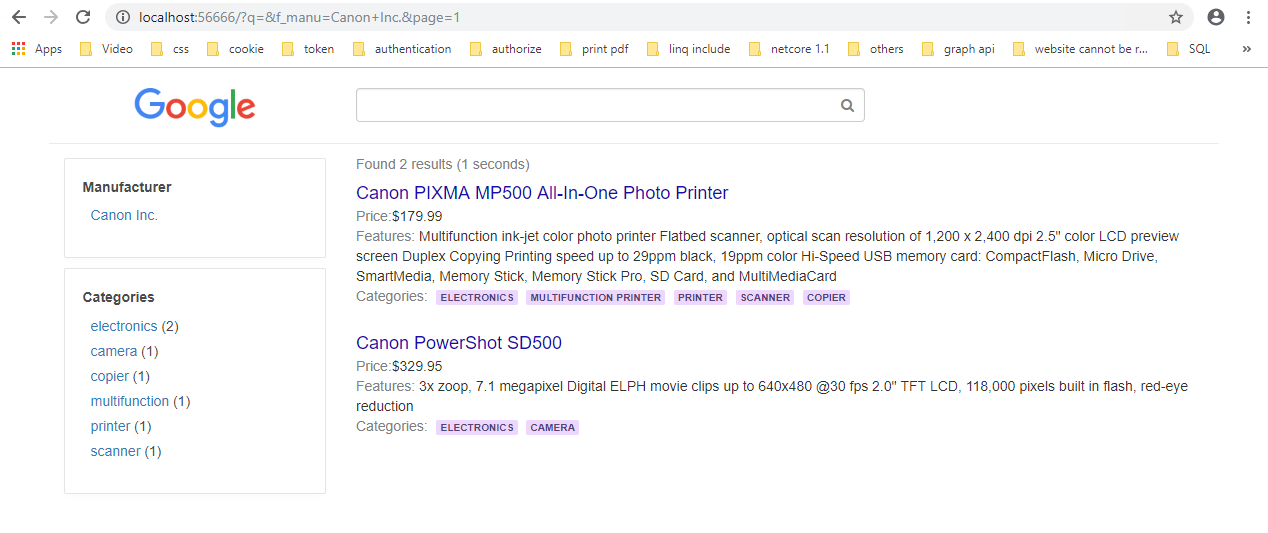
1. Home page.



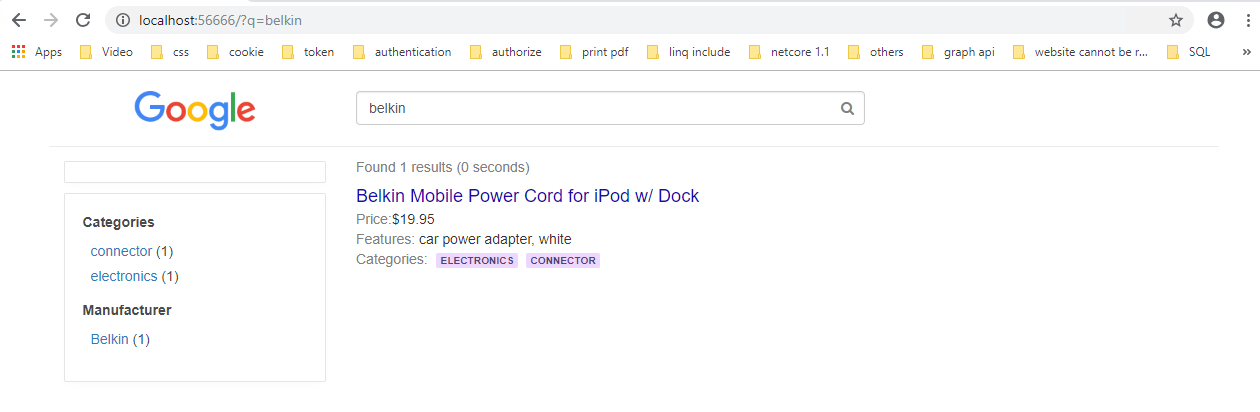
1. In **Category** choose [**memory**](http://localhost:56666/?page=1)



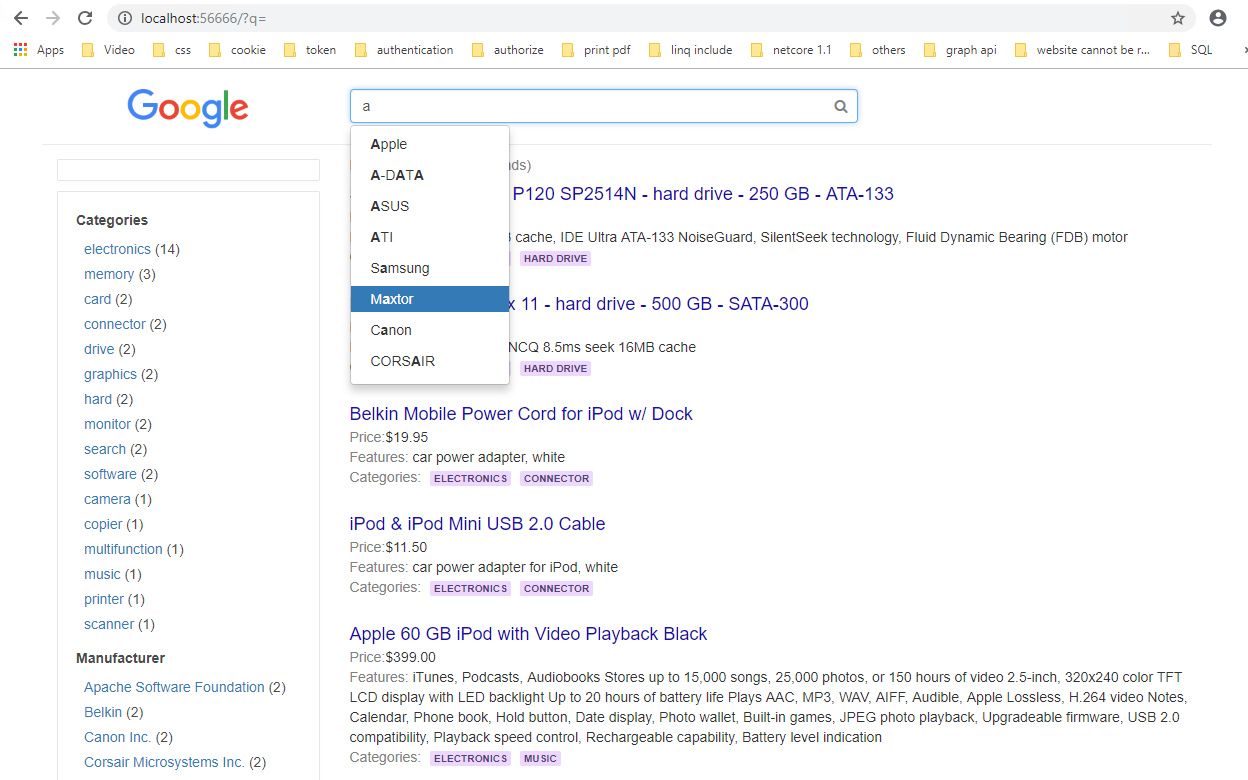
1. In **Manufacturer** Click **Canon Inc.**



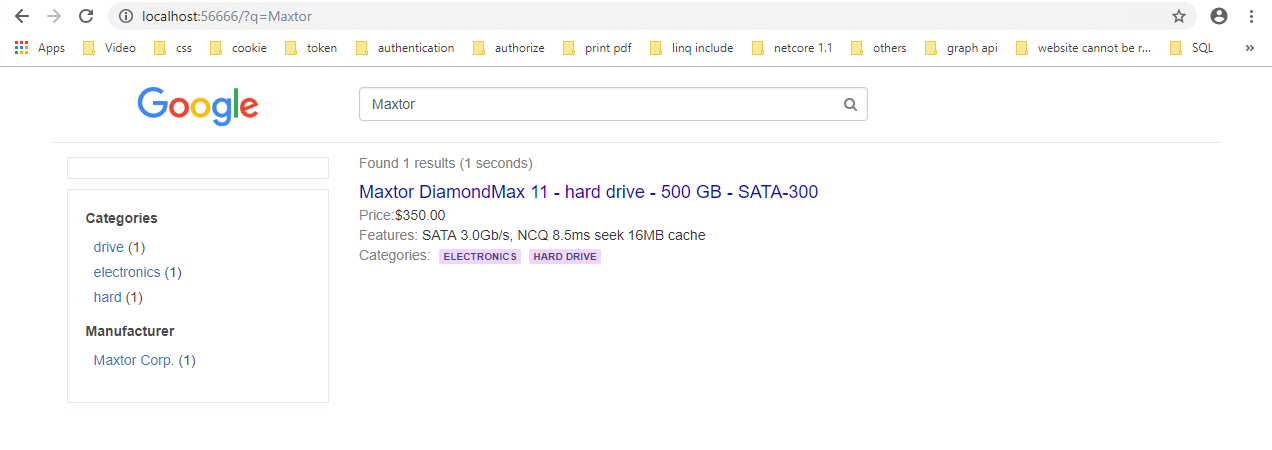
1. In search area enter **belkin**



1. Use typeahead function. Here choosing **Maxtor**

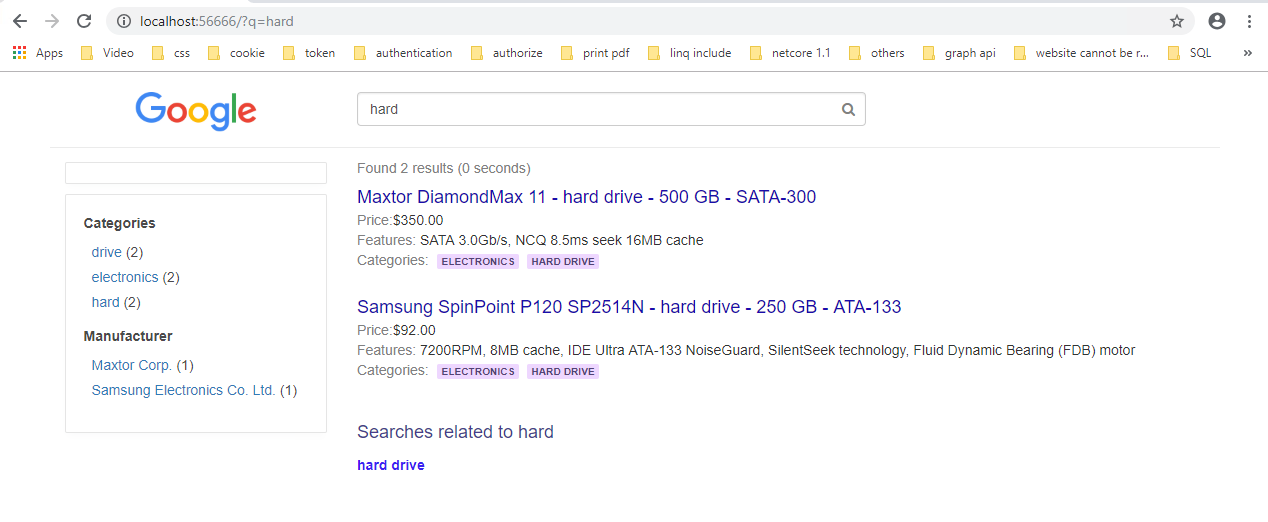


1. The content of page was updated after **Maxtor** was choosen



1. Use related search function. After entering **hard**, page’s content was refreshed and at the bottom of page , searches related area displays alternate related keyword list: **hard drive**

Setting



1. After entering **gb**, page’s content was refreshed.

