**Source Code snippet scrapping from Web page using NodeJS**

**Objective**: The objective of this project is to find the source code snippet from any web page and store it to database.

**Requirement:**

Need to develop browser plugin which on-click should find the source code snippet from the active URL in the Web browser and store the code snippet to the database.

**GitHub link:**

<https://github.com/shyamnarayan2001/NodeJS_Projects.git>

**Installation Steps:**

1. Setup all the required pre-requisite softwares (as mentioned under the section **Pre-requisites**)
2. Git clone the project (For example, in my case, under D:\Projects\)
3. Once the clone is complete, execute the DB scripts available in D:\Projects\NodeJS\_Projects\SourceCodeFind\db\_scripts\**db\_scripts.sql** in your local MySQL database.

**CREATE DATABASE nodemysql;**

**USE nodemysql;**

**CREATE TABLE `code\_capture` (**

**`id` int(11) NOT NULL AUTO\_INCREMENT,**

**`url\_scanned` varchar(300) DEFAULT NULL,**

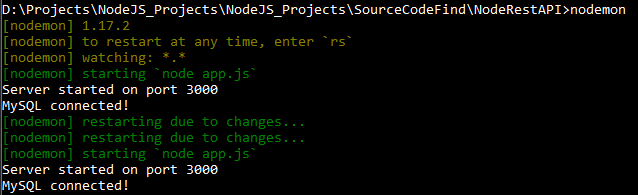
**`code\_snippet` varchar(1000) DEFAULT NULL,**

**`last\_updated\_dt` datetime DEFAULT NULL,**

**PRIMARY KEY (`id`)**

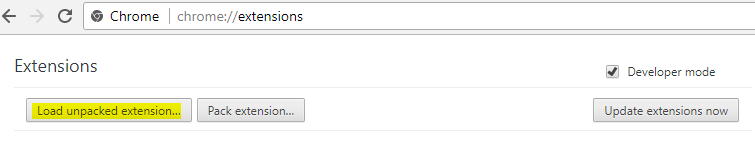
**) ENGINE=InnoDB AUTO\_INCREMENT=68 DEFAULT CHARSET=latin1;**

1. Now open the command prompt and cd to path D:\Projects\NodeJS\_Projects\SourceCodeFind\NodeRestAPI and execute the command "npm install"
2. Now execute the command “nodemon”

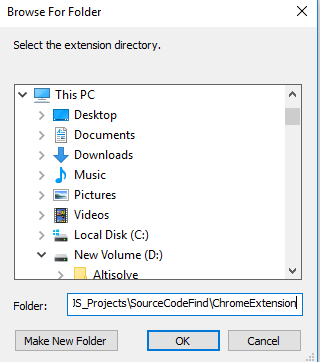


Note: Please don’t close this. This is the Server code which should be running. Incase if you want to stop this, you can use CTRL + C and close the window.

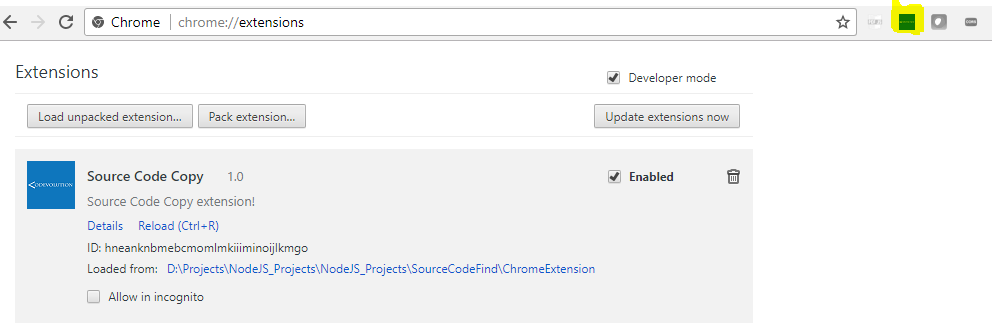
1. Now install the Chrome Extension plugin. For this, open Chrome browser and type “chrome://extensions” in tab to bring up the extensions page



Now enter the path D:\Projects\NodeJS\_Projects\SourceCodeFind\ChromeExtension and click Ok button.

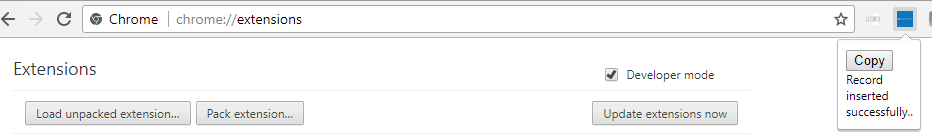


Now you will see the extension added and you will see a blue icon added on the left hand side (as highlighted in yellow).



Now click this icon (highlighted in yellow), you will see the “Copy” button. Now click this “Copy” button, it will display “Record inserted successfully”. Note that the Server component in Step 5 is running for this to be working.





**Pre-requisites:**

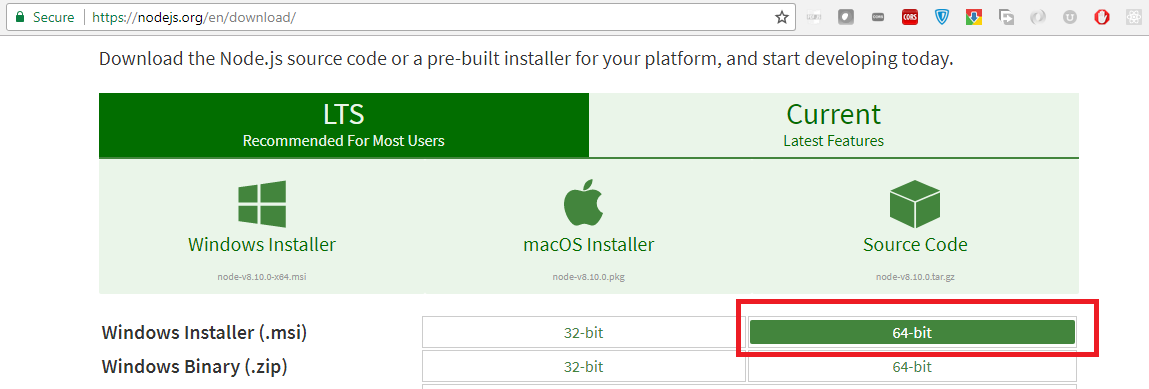
**1. Node JS:**

The pre-requisite for this project is to install NodeJS in your laptop. So let’s now install Node JS.

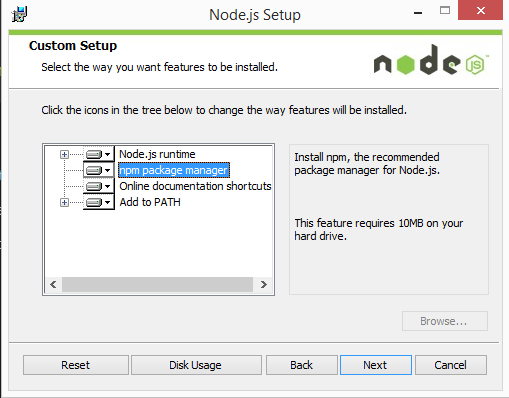
Note: If NodeJS is already installed on your machine, you can skip this step and move to “**Node and NPM upgrade on Windows”** section of this document, to ensure you have the latest npm version installed.

**Installation Steps:**

* Download the Windows installer 64 bit from the Nodes.js® web site - <https://nodejs.org/en/download/>



* Run the installer (the .msi file you downloaded in the previous step.)
* Follow the prompts in the installer (Accept the license agreement, click the NEXT button a bunch of times and accept the default installation settings).

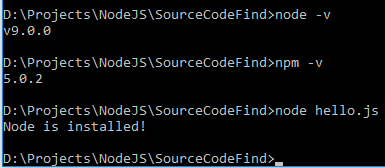


* Restart your computer. You won’t be able to run Node.js® until you restart your computer.

**Test the installation:**

Make sure you have Node and NPM installed by running simple commands to see what version of each is installed and to run a simple test program:

* **Test Node:** To see if Node is installed, open the Windows Command Prompt, Powershell or a similar command line tool, and type node -v. This should print a version number, so you’ll see something like this v6.10.2.
* **Test NPM:** To see if NPM is installed, type npm -v in Terminal. This should print NPM’s version number so you’ll see something like this 5.4.2
* **Create a test file and run it:** A simple way to test that node.js works is to create a JavaScript file: name it hello.js, and just add the code **console.log('Node is installed!');.** To run the code simply open your command line program, navigate to the folder where you save the file and type node hello.js. This will start Node and run the code in the hello.js file. You should see the output Node is installed!.



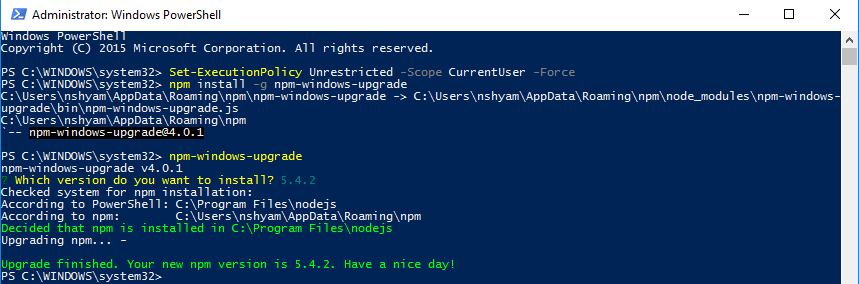
**Node and NPM upgrade on Windows:**

1. Run PowerShell as Administrator
2. Run the following commands in the PowerShell to upgrade

**Set-ExecutionPolicy Unrestricted -Scope CurrentUser -Force**

**npm install -g npm-windows-upgrade**

**npm-windows-upgrade**



**Explanation of the Source Code:**

<Yet to be updated>