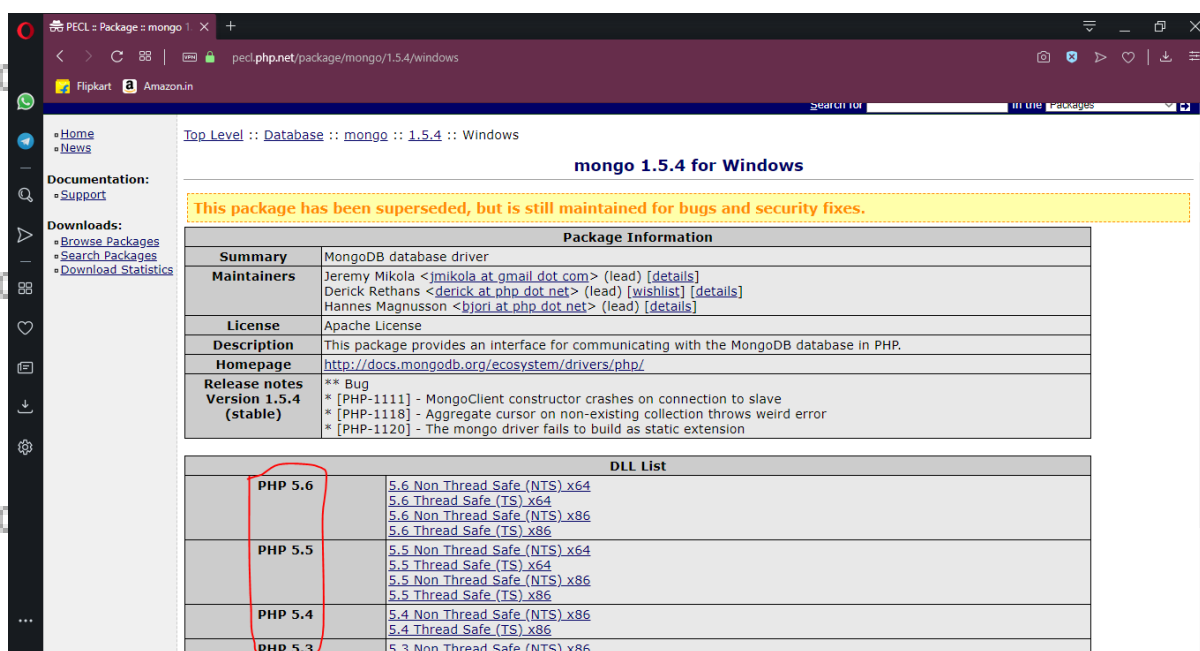


# Connecting PHP with MongoDB and inserting, retrieving, updating and deleting

## PHP mongo Driver Setup

First download the driver from link button below.

### PHP mongo link



Top Level :: Database :: mongo :: 1.5.4 :: Windows

**mongo 1.5.4 for Windows**





This package has been superseded, but is still maintained for bugs and security fixes.

Package Information	
<b>Summary</b>	MongoDB database driver
<b>Maintainers</b>	Jeremy Mikola < <a href="mailto:jmikola@gmail.com">jmikola@gmail.com</a> > (lead) [details] Derick Rethans < <a href="mailto:derick@php.net">derick@php.net</a> > (lead) [wishlist] [details] Hannes Magnusson < <a href="mailto:bjori@php.net">bjori@php.net</a> > (lead) [details]
<b>License</b>	Apache License
<b>Description</b>	This package provides an interface for communicating with the MongoDB database in PHP.
<b>Homepage</b>	<a href="http://docs.mongodb.org/ecosystem/drivers/php/">http://docs.mongodb.org/ecosystem/drivers/php/</a>
<b>Release notes Version 1.5.4 (stable)</b>	** Bug * [PHP-1111] - MongoClient constructor crashes on connection to slave * [PHP-1118] - Aggregate cursor on non-existing collection throws weird error * [PHP-1120] - The mongo driver fails to build as static extension

DLL List	
<b>PHP 5.6</b>	<a href="#">5.6 Non Thread Safe (NTS) x64</a> <a href="#">5.6 Thread Safe (TS) x64</a> <a href="#">5.6 Non Thread Safe (NTS) x86</a> <a href="#">5.6 Thread Safe (TS) x86</a>
<b>PHP 5.5</b>	<a href="#">5.5 Non Thread Safe (NTS) x64</a> <a href="#">5.5 Thread Safe (TS) x64</a> <a href="#">5.5 Non Thread Safe (NTS) x86</a> <a href="#">5.5 Thread Safe (TS) x86</a>
<b>PHP 5.4</b>	<a href="#">5.4 Non Thread Safe (NTS) x86</a> <a href="#">5.4 Thread Safe (TS) x86</a>
<b>PHP 5.3</b>	<a href="#">5.3 Non Thread Safe (NTS) x86</a>

Download the proper version.

We will get following files.

Name	Date modified	Type	Size
 LICENSE.MD	17-06-2014 13:40	MD File	6 KB
 php_mongo.dll	17-06-2014 13:40	Application extens...	321 KB
 php_mongo.pdb	17-06-2014 13:40	PDB File	1,283 KB
 README.md	17-06-2014 13:40	MD File	4 KB

Now copy "**php\_mongo.dll**" and paste it in "**C:\xampp\php\ext**" path.

Now open "**php.ini**" which is in "**C:\xampp\php**".

Add "**extension=php\_mongo.dll**" line in "**php.ini**".

```

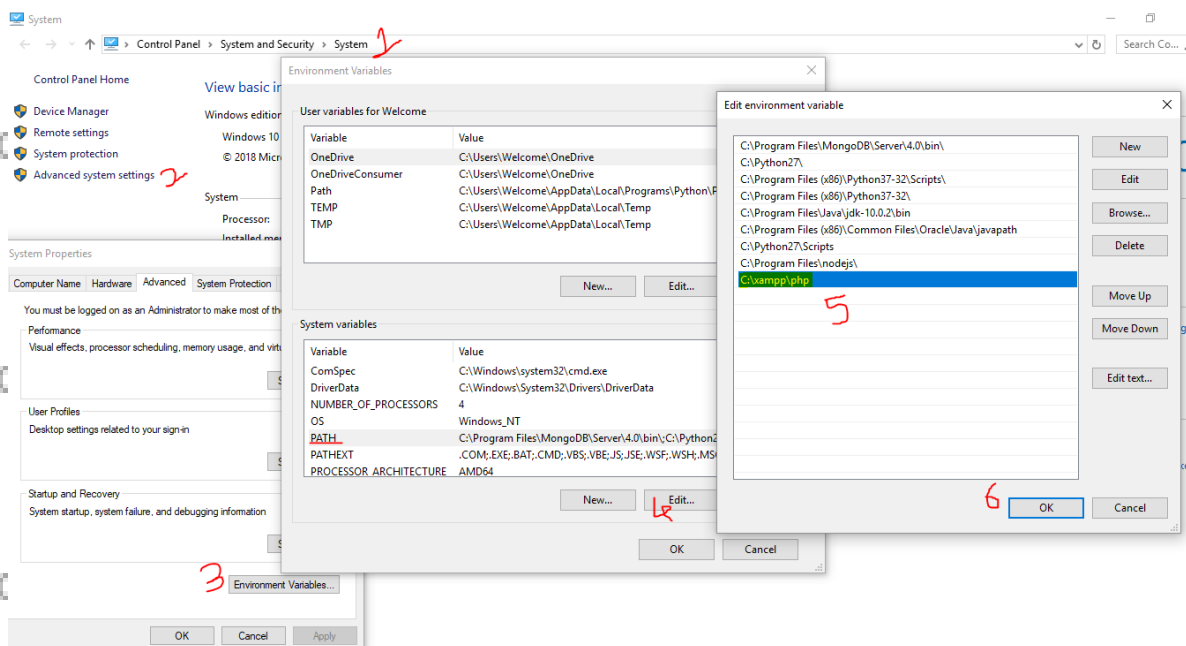
php.ini - Notepad
File Edit Format View Help
; See http://www.php.net/manual/en/snmp.installation.php
;extension=php_snmp.dll

;extension=php_soap.dll
;extension=php_sockets.dll
;extension=php_sqlite3.dll
;extension=php_sybase_ct.dll
;extension=php_tidy.dll
;extension=php_xmlrpc.dll
;extension=php_xsl.dll
extension=php_mongo.dll
;;;;;;;;;;;;;;;;;;;;;;;;
; Module Settings ;
;;;;;;;;;;;;;;;;;;;;;;;;
asp_tags=Off
display_startup_errors=On
track_errors=Off
y2k_compliance=On

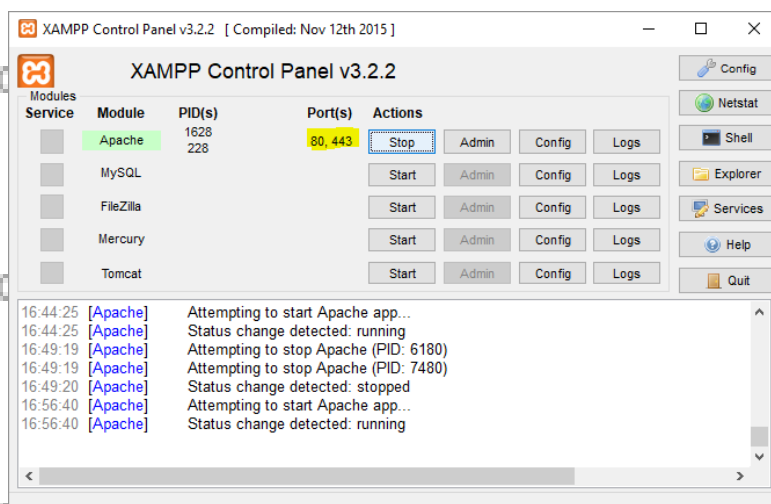
```

Save the file.

Add "**C:\xampp\php**" in path of environment variable.

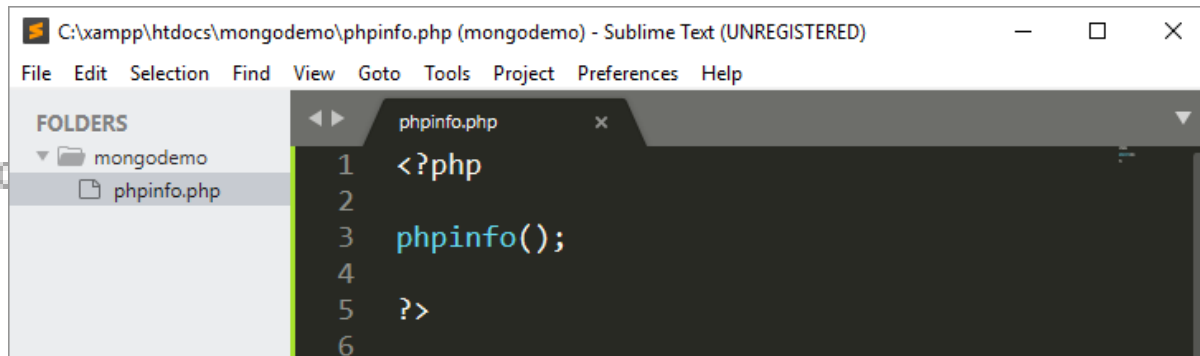


Now start XAMPP server.



Now let's check that PHP mongo driver has been setup properly. First let's create "**mongodemo**" folder in "**C:\xampp\htdocs\**". Create "**phpinfo.php**" file in "**C:\xampp\htdocs\ mongodemo**".

And write the following code in it.

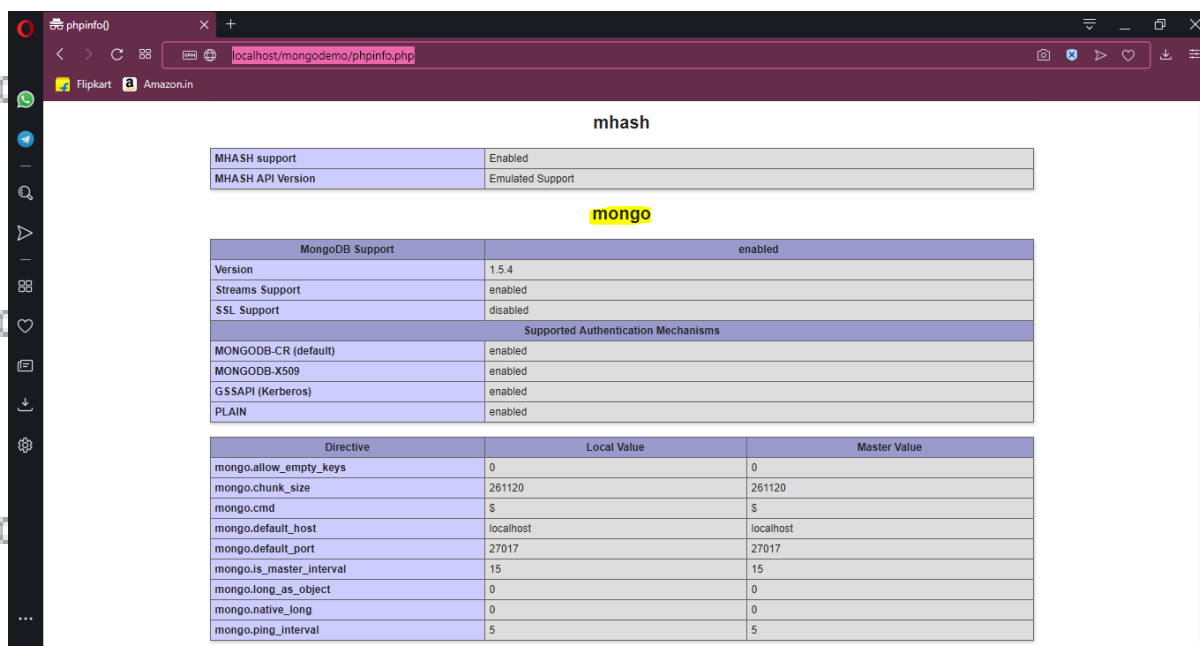


```

1 <?php
2
3 phpinfo();
4
5 ?>
6

```

Once it is done open browser and navigate to "**http://localhost/mongodemo/phpinfo.php**".



Directive	Local Value	Master Value
mongo.allow_empty_keys	0	0
mongo.chunk_size	261120	261120
mongo.cmd	\$	\$
mongo.default_host	localhost	localhost
mongo.default_port	27017	27017
mongo.is_master_interval	15	15
mongo.long_as_object	0	0
mongo.native_long	0	0
mongo.ping_interval	5	5

This column is visible means we have install PHP mongo driver successfully.

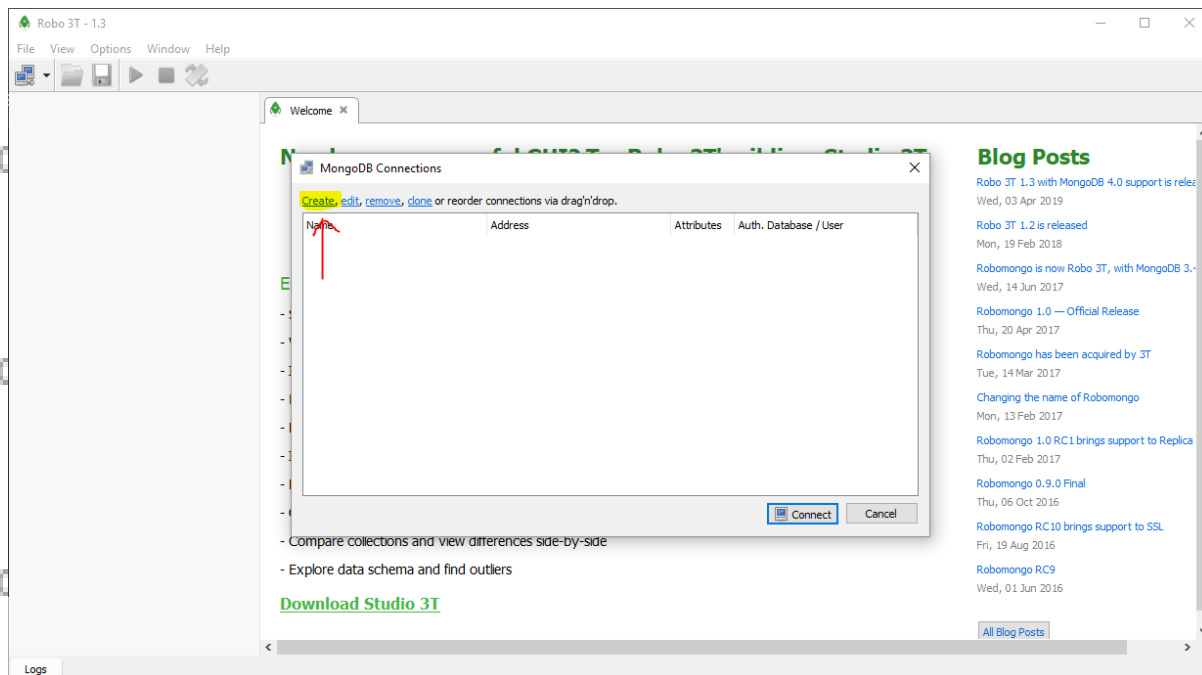
## Database creation.

We are going to create simple database for students in **mongoDB**.

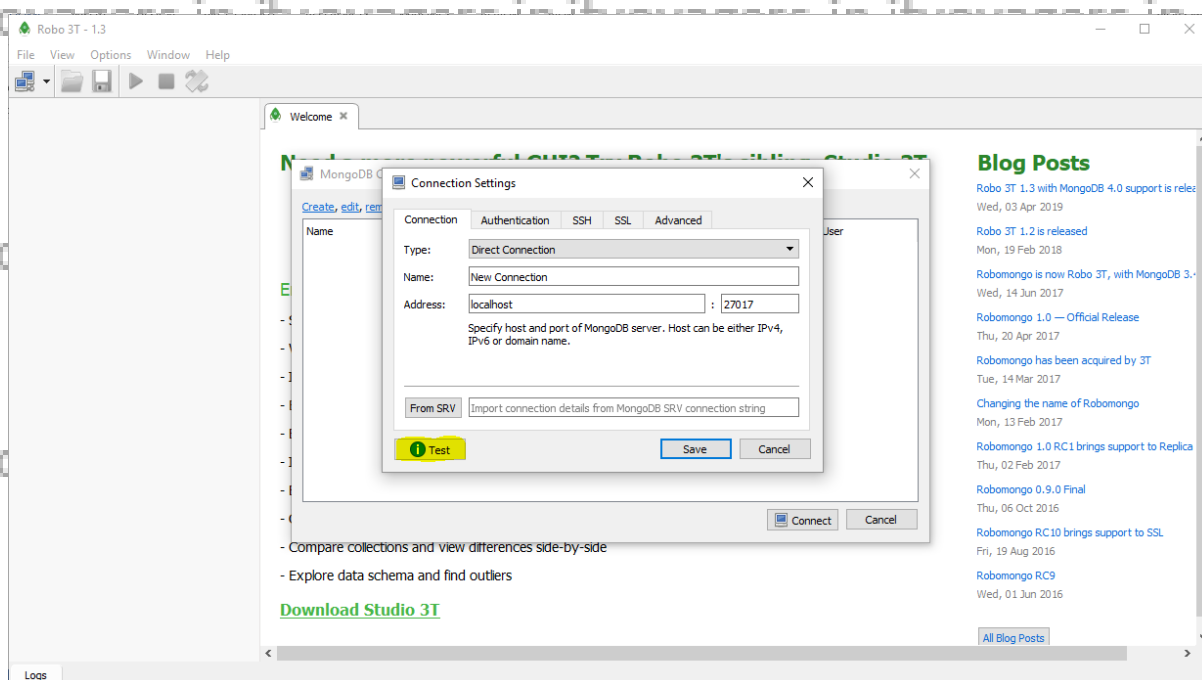
We are going to use GUI tool to connect with mongoDB, to download it click on below downloading link button.

<https://robomongo.org/download>

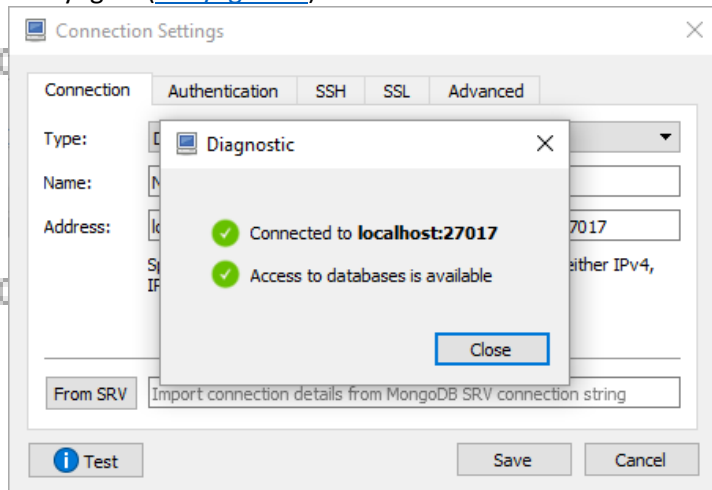
Install and Open “Robo 3T”, you will see the following screen, then click on “create”.



We can test connection by clicking on “Test”.

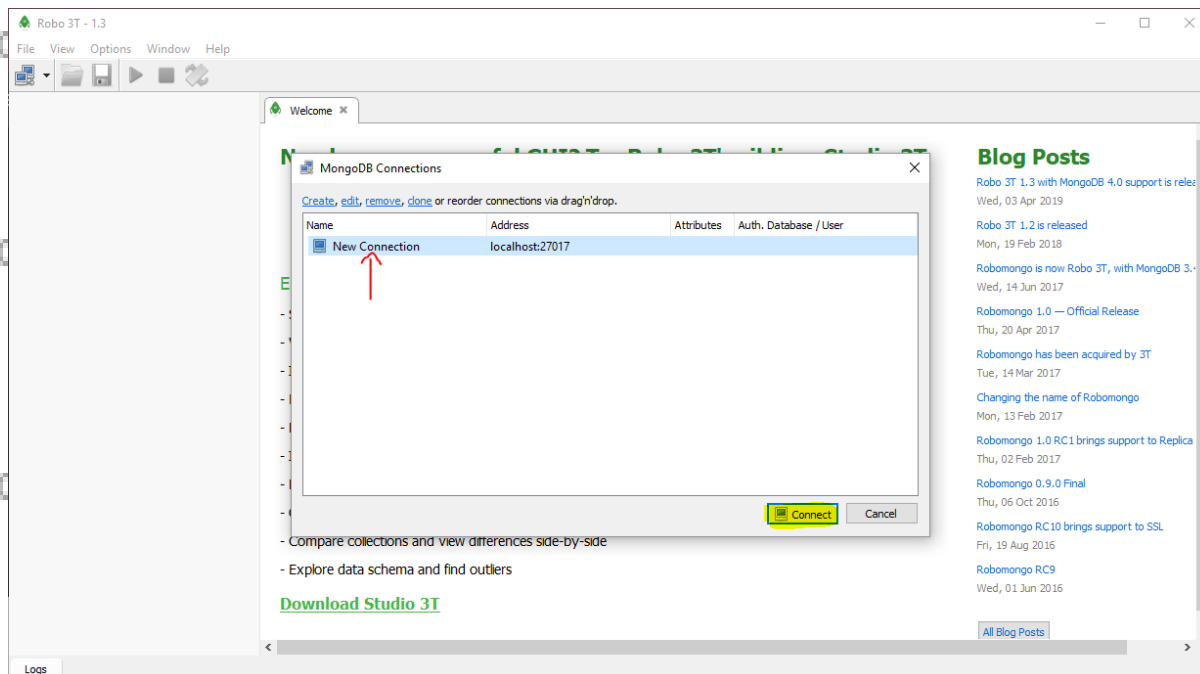


You will see following window which says that there is no problem in connection.



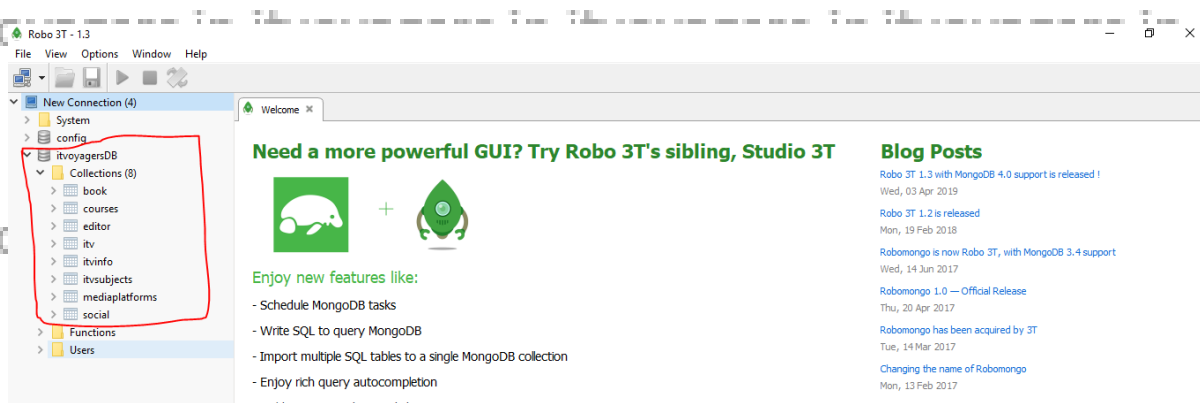
Click on “Close” and the “Save”.

We can see this connection in window.

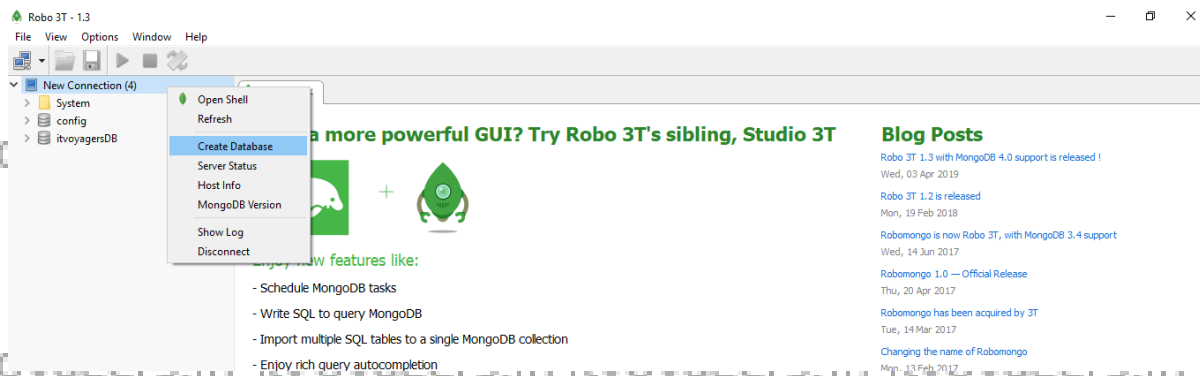


Now click on “Connect”.

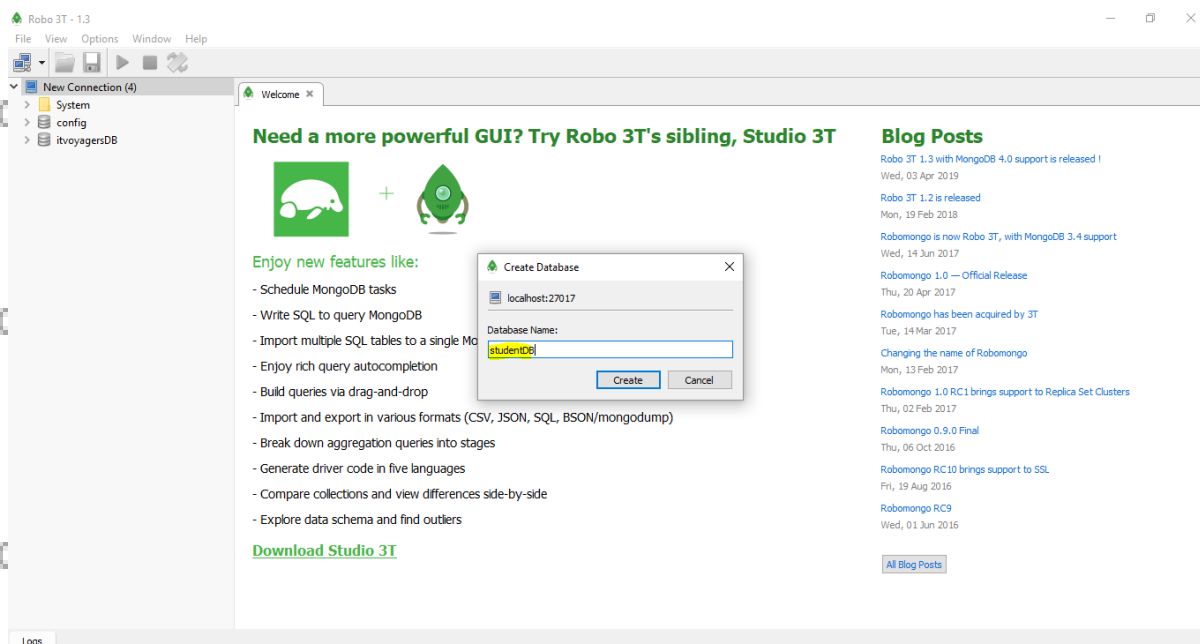
We can see that our previous databases and collections here.



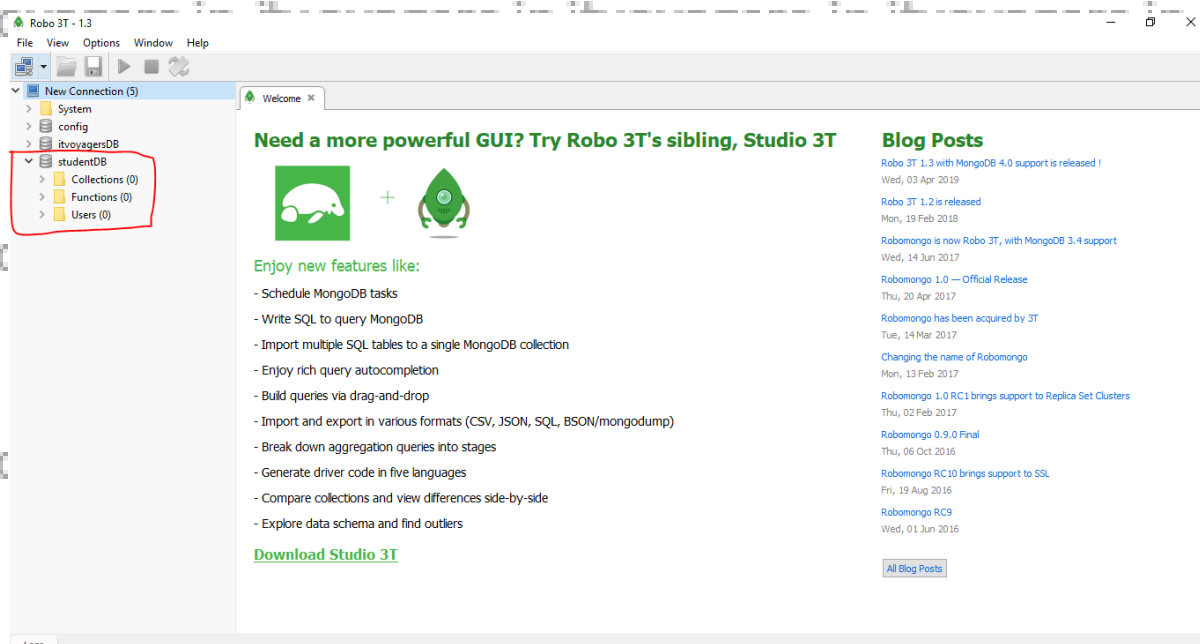
To create database using “Robo 3T” right-click on “**New Connection**”.



Enter database name and click on “**Create**”.

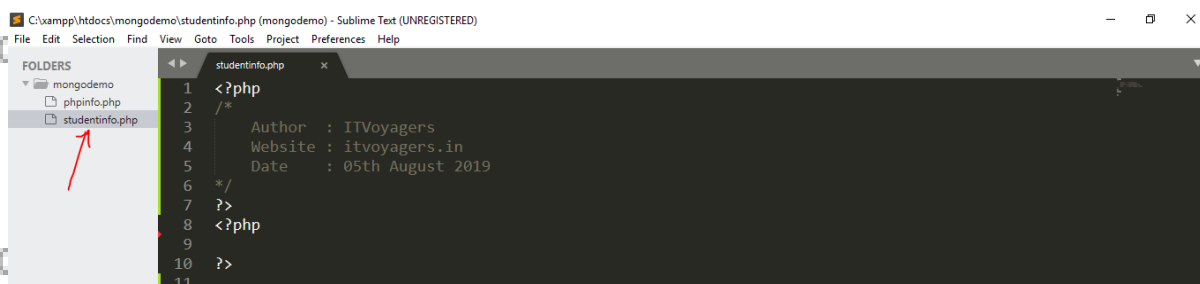


Here is our database.



# Connection

Now open text editor (we are using Sublime Text) and create new php file named **“studentinfo.php”** in **“C:\xampp\htdocs\mongodemo\”**.



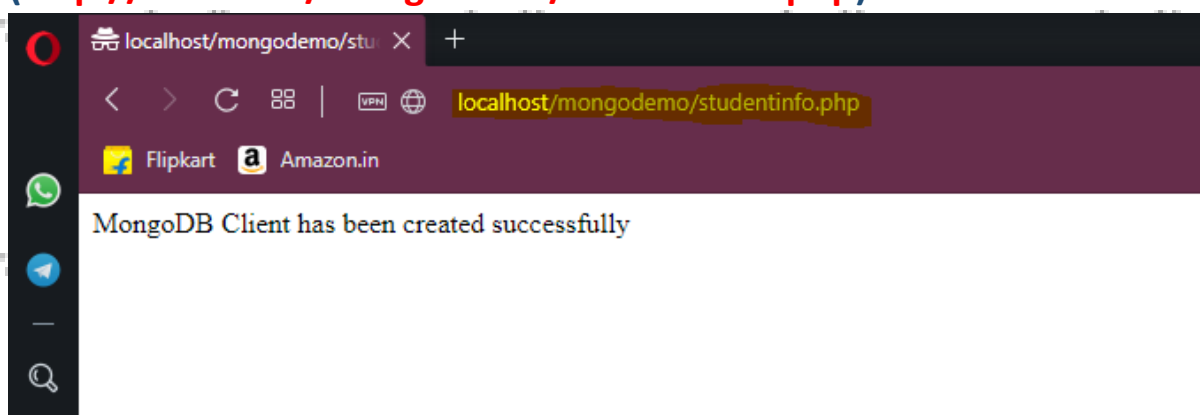
Following are the step-by-step process for CURD operation.

## 1. Create **MongoClient()** connect to mongoDB

```
1 <?php
2 /*
3     Author   : ITVoyagers
4     Website  : itvoyagers.in
5     Date     : 05th August 2019
6 */
7 // $mdb is instance of MongoClient() which will help us to access mongoDB
8 $mdb = new MongoClient();
9
10 // this statement will get execute if there is no error with creating
    MongoClient()
11     echo "MongoDB Client has been created successfully";
12
13 ?>
```

Now run this file in browser

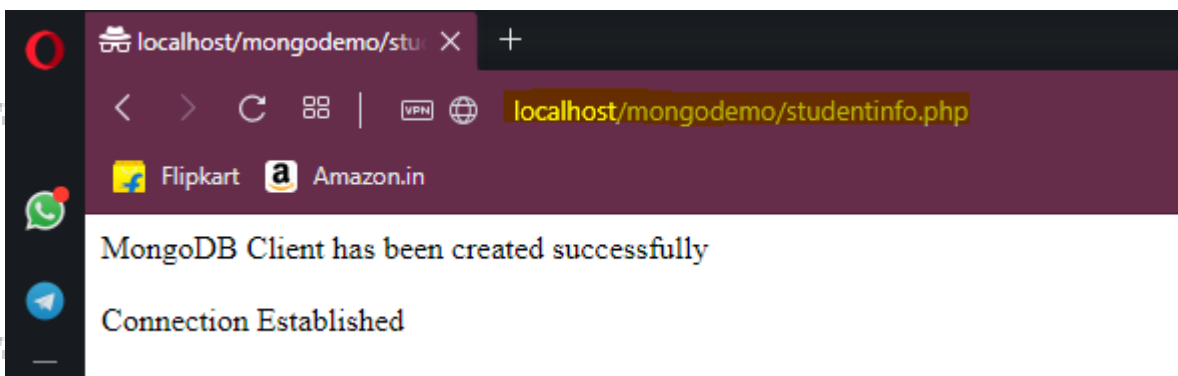
(<http://localhost/mongodemo/studentinfo.php>).



## 2. Select database (**studentDB**)

```
studentinfo.php x
1 <?php
2 /*
3     Author   : ITVoyagers
4     Website  : itvoyagers.in
5     Date     : 05th August 2019
6 */
7 // $mdb is instance of MongoClient() which will help us to access mongoDB
8 $mdb = new MongoClient();
9 // this statement will get execute if there is no error with creating
MongoClient()
10 echo "MongoDB Client has been created successfully";
11 // $stud_db is variable which is reference for our database
12 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
13
14 echo "<br><br>Connection Established";
15
16 ?>
```

Now run this file in browser(<http://localhost/mongodemo/studentinfo.php>).

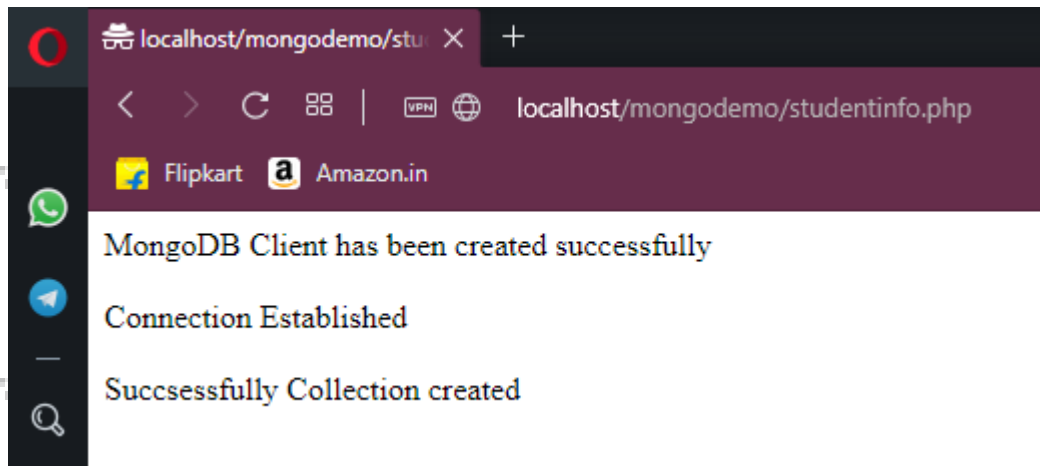


## 3. Create **Collection**

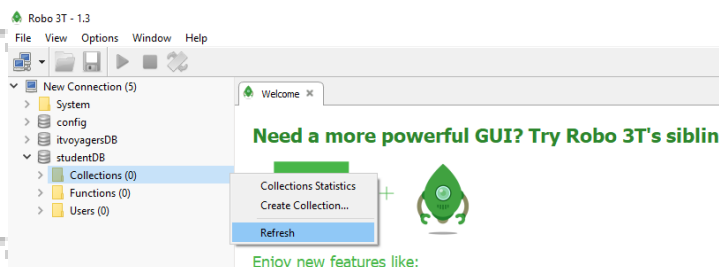
```
studentinfo.php
1 <?php
2 /*
3     Author   : ITVoyagers
4     Website  : itvoyagers.in
5     Date     : 05th August 2019
6 */
7 // $mdb is instance of MongoClient() which will help us to access mongoDB
8 $mdb = new MongoClient();
9 // this statement will get execute if there is no error with creating MongoClient()
10 echo "MongoDB Client has been created successfully";
11 // $stud_db is variable which is reference for our database
12 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
13 echo "<br><br>Connection Established";
14 // $stud_collection is reference and "student_info" is collection name
15 // createCollection() is method to create collection
16 $stud_collection = $stud_db -> createCollection("student_info");
17 echo "<br><br>Successsfully Collection created";
18
```



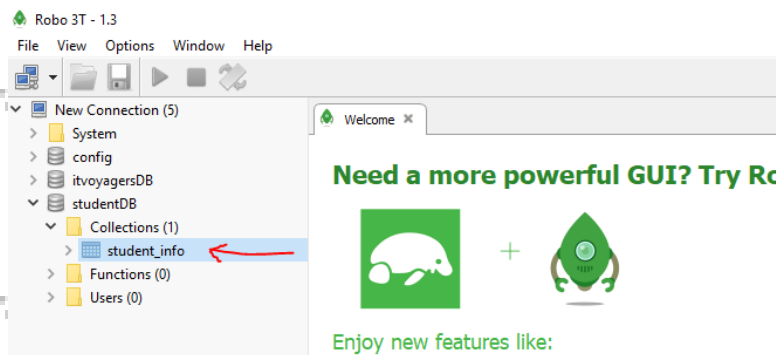
Now run this file in browser(<http://localhost/mongodemo/studentinfo.php>).



We can also check collection in “Robo 3T”.



Just refresh the collections, and after that we can see the collection we created.



## 4. Insert

**Note: In PHP array() represents "{ }" from mongoDB.**

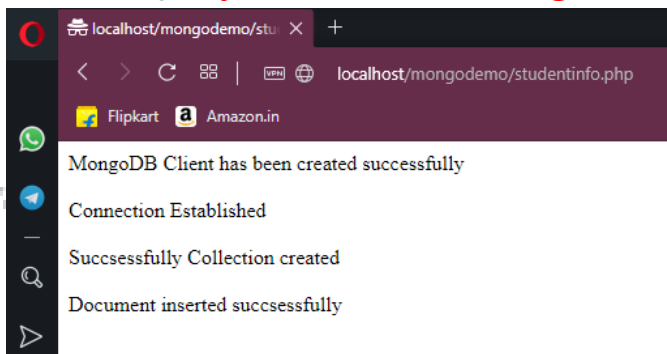
```

1 <?php
2 /*
3   Author   : ITVoyagers   Website : itvoyagers.in   Date    : 05th August 2019
4 */
5 // $mdb is instance of MongoClient() which will help us to access mongoDB
6 $mdb = new MongoClient();
7 // this statement will get execute if there is no error with creating MongoClient()
8 echo "MongoDB Client has been created successfully";
9 // $stud_db is variable which is reference for our database
10 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
11 echo "<br><br>Connection Established";
12 // $stud_collection is reference and "student_info" is collection name
13 // createCollection() is method to create collection
14 $stud_collection = $stud_db -> createCollection("student_info");
15 echo "<br><br>Successsfully Collection created";
16
17 $doc = array( "_id" => 01,
18               "name" => "Rawool Vijay Anil",
19               "course" => "MSc. IT" );
20 // insert() method is use to insert data in collection
21 $stud_collection -> insert($doc);
22 echo "<br><br>Document inserted successsfully";
23
24 ?>

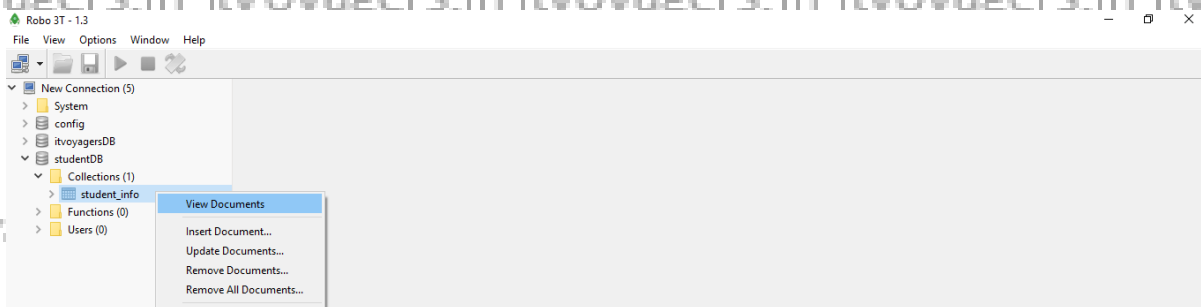
```

Now run this file in

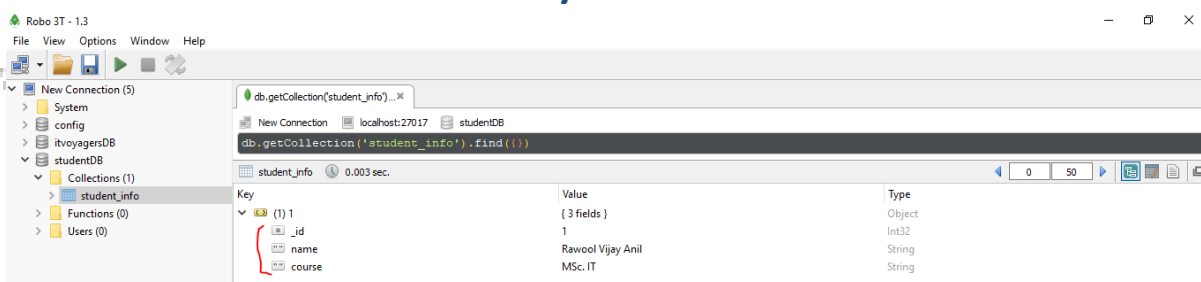
**browser(<http://localhost/mongodemo/studentinfo.php>).**



We can also check collection in “Robo 3T”



Select View Document to view your document.



## 5. Retrieve

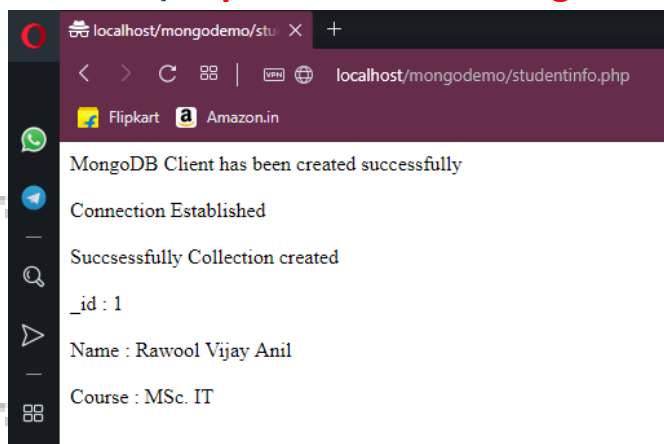
```

1 <?php
2 /*
3   Author   : ITVoyagers   Website : itvoyagers.in   Date    : 05th August 2019
4 */
5 // $mdb is instance of MongoClient() which will help us to access mongoDB
6 $mdb = new MongoClient();
7 // this statement will get execute if there is no error with creating MongoClient()
8 echo "MongoDB Client has been created successfully";
9 // $stud_db is variable which is reference for our database
10 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
11 echo "<br><br>Connection Established";
12 // $stud_collection is reference and "student_info" is collection name
13 // createCollection() is method to create collection
14 $stud_collection = $stud_db -> createCollection("student_info");
15 echo "<br><br>Successsfully Collection created";
16 //find() method will return all data from "student_info" collection
17 $cursor = $stud_collection -> find();
18 //we have to loop through $cursor to print values
19 foreach ($cursor as $res)
20 {
21     echo "<br><br>_id : ".$res["_id"];
22     echo "<br><br>Name : ".$res["name"];
23     echo "<br><br>Course : ".$res["course"];
24 }
25
26 ?>

```

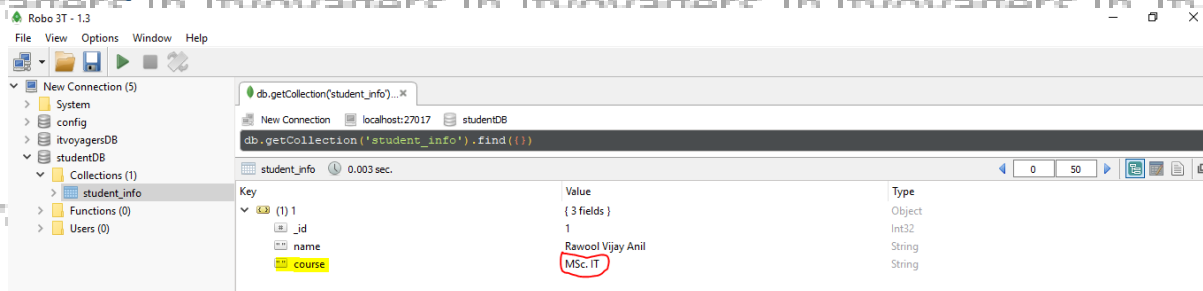
Now run this file in

browser(<http://localhost/mongodemo/studentinfo.php>).



## 6. Update

Let's update course from "MSc. IT" to "MPhil" in our collection.



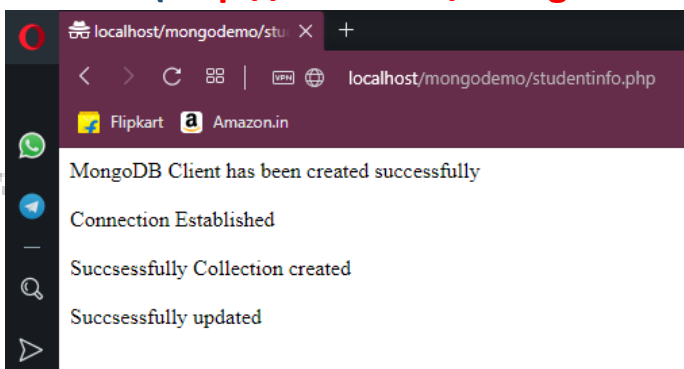
To update document we will use **update()**

```

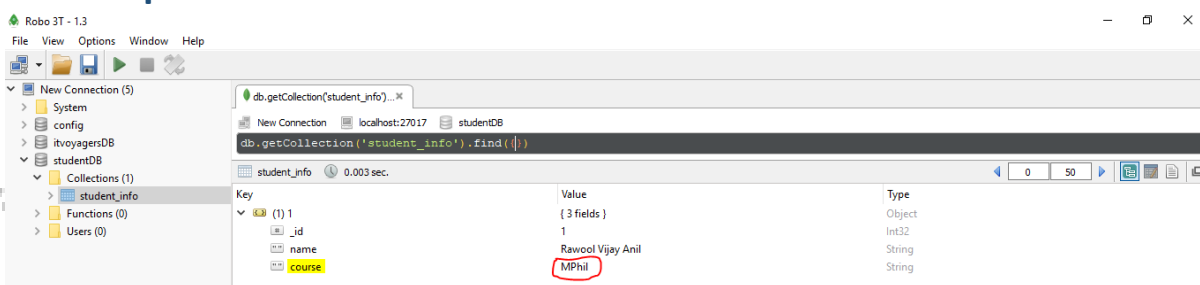
1 <?php
2 /*
3   Author   : ITVoyagers   Website : itvoyagers.in   Date   : 05th August 2019
4 */
5 // $mdb is instance of MongoClient() which will help us to access mongoDB
6 $mdb = new MongoClient();
7 // this statement will get execute if there is no error with creating MongoClient()
8 echo "MongoDB Client has been created successfully";
9 // $stud_db is variable which is reference for our database
10 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
11 echo "<br><br>Connection Established";
12 // $stud_collection is reference and "student_info" is collection name
13 // createCollection() is method to create collection
14 $stud_collection = $stud_db -> createCollection("student_info");
15 echo "<br><br>Successsfully Collection created";
16 //update() will accept 2 arguments
17 //first argument is the search condition
18 //second argument is a values which is to be updated
19 //keep $set in single quotations
20 $stud_collection -> update( array("name"=>"Rawool Vijay Anil"),
21                             array('$set' => array("course" => "MPhil")));
22
23
24 echo "<br><br>Successsfully updated";
25 ?>

```

Now run this file in browser(<http://localhost/mongodemo/studentinfo.php>).



Check updated collection in "Robo 3T".



## 7. Delete

Let's delete this document from the collection.



We will use `remove()` for deleting document from collection.

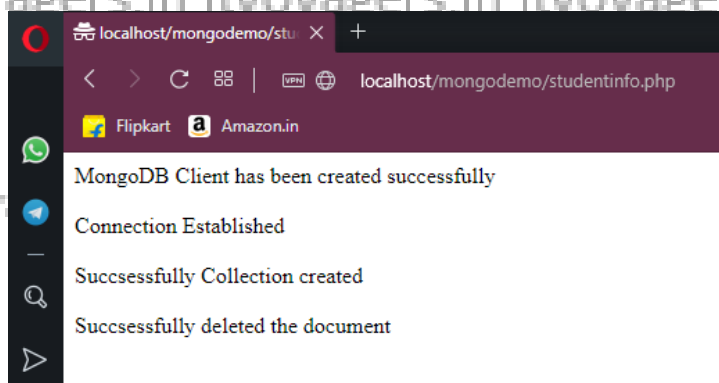
```

1 <?php
2 /*
3   Author : ITVoyagers   Website : itvoyagers.in   Date : 05th August 2019
4 */
5 // $mdb is instance of MongoClient() which will help us to access mongoDB
6 $mdb = new MongoClient();
7 // this statement will get execute if there is no error with creating MongoClient()
8 echo "MongoDB Client has been created successfully";
9 // $stud_db is variable which is reference for our database
10 $stud_db = $mdb -> studentDB; // studentDB is our database in mongoDB
11 echo "<br><br>Connection Established";
12 // $stud_collection is reference and "student_info" is collection name
13 // createCollection() is method to create collection
14 $stud_collection = $stud_db -> createCollection("student_info");
15 echo "<br><br>Successfully Collection created";
16
17 //remove() will have 2 arguments
18 //first argument is the condition
19 //second boolean value which state allow you to delete only one document we will
20 //set it to false
21 $stud_collection -> remove( array("name"=>"Rawool Vijay Anil"),
22                             array("justOne" => false));
23
24 echo "<br><br>Successfully deleted the document";
25 ?>

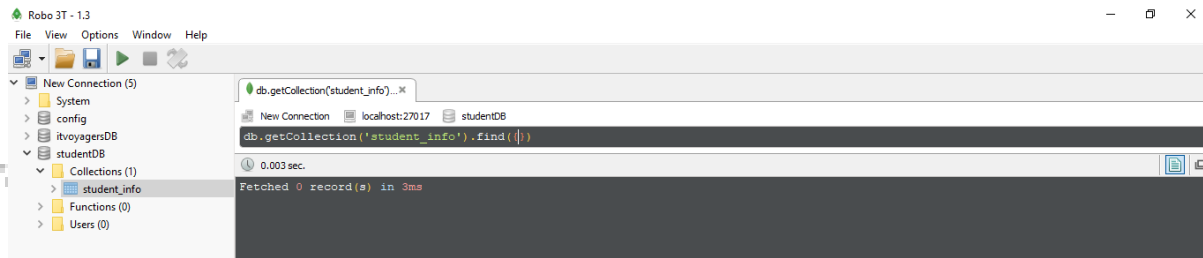
```

Now run this file in

browser(<http://localhost/mongodemo/studentinfo.php>).



Check updated collection in “Robo 3T”.



Yes our document has been deleted.