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Thread: [Server - Client | Storing data on Server](#)

Ravenheart - January 29, 2017, 12:35 am

Hey there guys.

I've finished reading a C# book but unfortunately, I haven't had the opportunity to experiment and practice with it so far.

That scares me off especially when it comes to making a 'server/client' app that I'm thinking of.

So, I've got an idea that I can use to make a quite simple, I guess, application that will be very useful on my job.

What I want to do is the following.

We have a main server that every other computer(local) connects to in order to share files while also have access to the SQL database.

I would like to create a simple database program, without having to make a new or edit the existing SQL database. Let's say I want to make my own database. Could this happen?

Image Example ([Click to View](#))

I know that anyone who knows a bit of C# will laugh at me but well.

That is going to be my first ever project, something that I want to create and I will surely add more things to it when I manage to make it.

Could you guide me to the right direction of what should I look for?

Any kind of help will be appreciated!

Thanks!

Aristocles - January 29, 2017, 1:27 am

<https://hackforums.net/showthread.php?tid=5077328>

<https://github.com/gubed/LiteCode-Example>

zeroexp - January 29, 2017, 1:38 am

This sounds pretty fun to do. Gonna tell you an easy way to do it.

For the connection you can use TCP, I think it's your best choice here.

You could use a library for the client and server. (e.g. [this](#)). Some cool libraries here on HF as well, just use something basic if you're not that experienced.

Quote:without having to make a new or edit the existing SQL database. Let's say I want to make my own database.

I am not quite sure what this means. Making your own database implies creating a database.

But it's not that hard to make a basic database, easier than you might think.

If you don't wanna go into details, create a Service-Based Database.

The database will be a file within your project and you can edit tables and others really easily using the Server Explorer.

After you got your database working and your tables ready, create a new item called ADO.NET Entity Data Model using the option Code First from Database and you are basically set.

You are going to see some classes added to your project: a class for every table you have

the DbContext, having the name you chose during the Entity Model setup

Let's say for example you chose the name MyDbContext and you have a table called User which contains a Username and Password.

How do you add data to a table?

```
Code private MyDbContext DB = new MyDbContext();
```

```
User newUser = new User();  
newUser.Username = "testAccount";  
newUser.Password = "testPassword";
```

```
DB.Users.Add(newUser); // If you chose to pluralize during the setup, 'User' will be turned into  
'Users' for instance
```

```
DB.SaveChanges(); // Don't forget this
```

That's it. You can now check the data from the table using the Server Explorer (Right-Click on table -> Show Table Data) and you're gonna see the new user.

Now, for the server-client connection. If you are gonna use a library (which I recommend), you'll probably have events such as DataReceived for instance. Just hook that event up in the server app and then evaluate the data send by the client.

For instance, the server receives "register|testAccount|testPassword". The server evaluates the command and then the arguments by splitting the string into parts, then proceeds to register the specific account.

The client (usually) just sends data to the server, so that should be pretty straight forward to do.

INCEPTION_V - January 29, 2017, 2:08 am

I would strongly recommend that you take a look at WCF Windows Communication Foundation.

https://en.wikipedia.org/wiki/Windows_Communication_Foundation it's relative easy to adapt to it.

BahNahNah - January 29, 2017, 2:11 am

Im going to be bias and suggest you use this networking library:

<https://hackforums.net/showthread.php?tid=5506453>

It has built in remote functions. And if its something you are going to market (using netseal licence system), this might also be of interest.

<https://hackforums.net/showthread.php?tid=5530798>

Sakuto - January 29, 2017, 5:26 am

(Jan 29, 2017 02:38 AM)Wops Wrote: [\[CITE\]](#) -snip-

Please die in hell. Doing this basically means storing credentials on software or let anybody do everything he wants to the database.

@OP: The only secure way to handle your needs is to create a REST service to handle every request done to the database.

Zilog80 - *January 29, 2017, 6:05 am*

So, you basically wants to do CRUD (Create, Read, Update and/or Delete) some record/s on a SQL table/tables in your job corp?

Has your job corp server a IIS? If yes, you can deploy a very simple ASP.NET intranet (intranet != internet) page that clients (clients = employers) could use for that CRUD using a standard WebBrowser like FlreFox, Chrome, IE. This can be done in less than 10 minutes.

If your job corp server hasn't IIS, you could develop a WinForms/WPF app that need to be install / run in every job corp employer PC. This app would CRUD on the job corp SQL Server. This can be done, literally in less than 5 minutes.