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Atom Yah.Learning MVC architecture with PHP – to exit beginner, before entering framework. Kindle 版.

# **Download Sample source code:**

\* Downloadable bits:

SetupDatabase.zip
SampleSystemCode\_1.0.zip
HowToSetUp.pdf

\* Downlodable location:

https://github.com/atomyah/LearningMVC/releases

# **Setup Windows**

#### **Install XAMPP**

Install XAMPP 5.6.31.

From <a href="https://www.apachefriends.org/download.html">https://www.apachefriends.org/download.html</a>



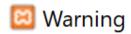
Version		Checksum	
5.6.31 / PHP 5.6.31	What's Included?	md5 sha1	Downlo
7.0.22 / PHP 7.0.22	What's Included?	md5 sha1	Downlo
7.1.8 / PHP 7.1.8	What's Included?	md5 sha1	Downlo

# Requirements Add-ons More Downloads »

Windows XP or 2003 are not supported. You can download a compatible version platforms here.

<sup>\*</sup> Do not mind the download module is 32bit. XAMPP 32bit works for Windows 10 64bit.

Ignore the following window. Click OK.





Important! Because an activated User Account Control (UAC) of some functions of XAMPP are possibly restricted. With UAC plainstall XAMPP to C:\Program Files (x86) (missing write permission deactivate UAC with msconfig after this setup.

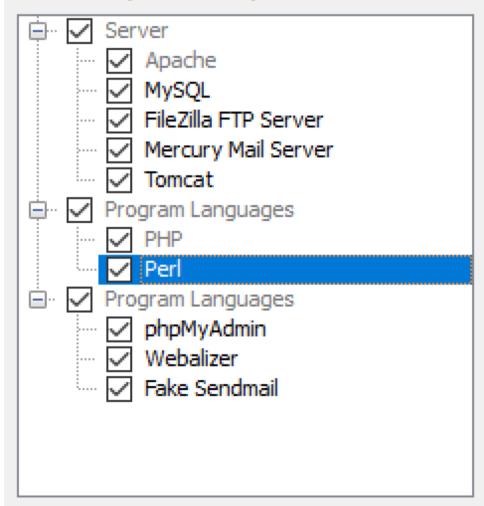
OK

Select all items.



## Select Components

Select the components you want to install; clear the components you do not Next when you are ready to continue.



XAMPP Installer

< Back

Ne

Allow access on Windows Firewall.



## Windows Security Alert



# Windows Firewall has blocked some features of

Windows Firewall has blocked some features of Apache HTTP Server on all pul networks.

Apache HTTP Server Name:

Publisher: Apache Software Foundation

Path: C:\xampp\apache\bin\httpd.exe

Allow Apache HTTP Server to communicate on these networks:

Private networks, such as my home or work network

Public networks, such as those in airports and cafés (not recommended) because these networks often have little or no security)

What are the risks of allowing an app through a firewall?

Finish.





# Completing the XAMPP Setup Wiza

Setup has finished installing XAMPP on y

Do you want to start the Control Pa



< Back

F

If the XAMPP control panel pop up after finishing installation, it should be fine.

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015]

Service	Module	PID(s)	Port(s)	Actions		
	Apache			Start	Admin	Co
	MySQL			Start	Admin	Co
	FileZilla			Start	Admin	Co
	Mercury			Start	Admin	Co
	Tomcat			Start	Admin	Со
4-24-04	[main]	there will b	e a security dia	logue or thir	ngs will brea	ak! So
4.21.01		and the second s	ina thia analicat	والوالم الماله تبرين المركزة	ministrator r	2.1
4:21:01		about runni	•			ignts
4:21:01 4:21:01	[main]	XAMPP Ins	stallation Direct	ory: "c:\xam		ignts:
4:21:01 4:21:01 4:21:01	[main] [main]	XAMPP Ins Checking f	stallation Directo or prerequisites	ory: "c:\xam		ignts
4:21:01 4:21:01 4:21:01 4:21:03	[main] [main] [main]	XAMPP Ins Checking f All prerequ	stallation Directo or prerequisites isites found	ory: "c:\xam		ignts
4:21:01 4:21:01 4:21:01 4:21:03 4:21:03 4:21:03	[main] [main] [main] [main]	XAMPP Ins Checking f	stallation Directo or prerequisites isites found Modules	ory: "c:\xam		ignts

## Install NetBeans

Install NetBeans.

From https://netbeans.org/downloads/

$\leftarrow$	$\rightarrow$	C	eans.org/c	lownload	s/			
		Not Doone			D) 15	- ·		
		NetBeans Net	Beans IDE	NetBear	is Platform	Plugins	Docs & Support	Com
		HOME / Download						
		NetBeans IDE 8	2 Dow	nload				
		Trotboario ible o	2 0011	modd				
		Email address (optional):					IDE	Engli
		Subscribe to newsletters:	Monthly	☐ Weekl	V		Language: l	
			_		ot me at this a	address		Not
							NetBeans IDE	Dow
		Supported technologies *	la	va SE	Java E	F H	TML5/JavaScript	
		NetBeans Platform SD		•	Java L		11123/3414361176	
		Java SE	/10	•				
		Java FX		•	•			
		Java EE			•			
		Java ME						
		MTML5/JavaScript			•		•	
		PHP					•	
		⑥ C/C++						
		⑤ Groovy						
		Java Card™ 3 Connec	ted					
		Bundled servers						
		GlassFish Server Oper	n					
		Source Edition 4.1.1			•			
		Apache Tomcat 8.0.27	7		•			
							Download ×86	Do
			Do	wnload	Downlo		Download x64	Dr
								Do
			Free	, 95 MB	Free, 197	MB Fre	ee, 108 - 112 MB	Free

We set up NetBeans' project later.

## Install Notepad++

Install Notepad++ (if you would like to).

From <a href="https://notepad-plus-plus.org/download/v7.5.1.html">https://notepad-plus-plus.org/download/v7.5.1.html</a>

Choose Notepad++ Installer 32-bit x86, NOT 64bit.







We use cookies to personalise content and ads, to provide social media features and to as share information about your use of our site with our social media, advertising and analyst combine it with other information you've provided to them or they've collected from you



### home

## download

- v7.5.1 Current Version
- v7.5
- v7.4.2
- v7.3.3
- v7.3.2
- v7.3.1
- v7.3
- v7.2.2
- v7.2.1
- All versions

#### news

## features

# **Download Notepad+**

Free: Big Data Trends for 201 Whitepaper

What's Changing with Hadoop & Other Big Data Trends

Release Date: 2017-08-28

## Download 32-bit x86



Install Notepad++ Compare Plug-In.(If you would like to).



# Notepad++ Compare plugin

# Download of npp-compare will start in 1 second

Problems with the download? Please use this direct link, or try another mirror.

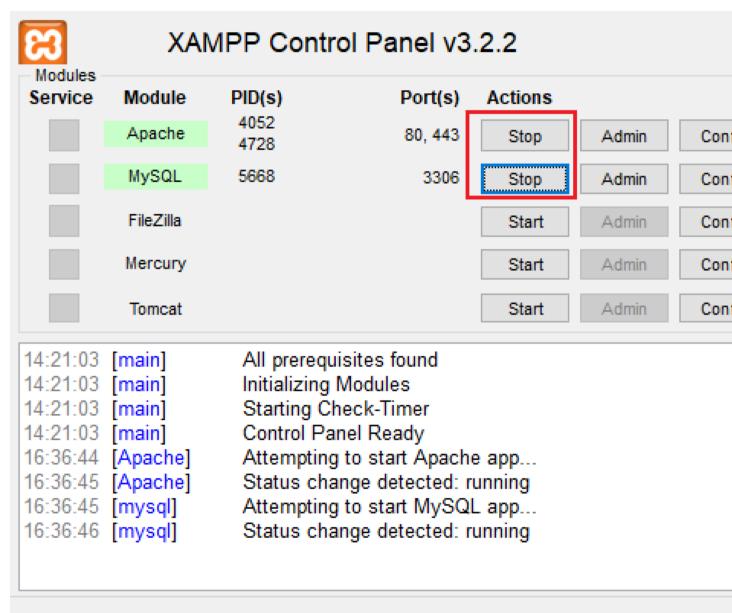
You will download ComparePlugin.v1.5.6.2.bin.zip. Unzip it and copy ComparePlugin.dll in it

Then paste ComparePlugin.dll to C:\Program Files (x86)\Notepad++\plugins folder. Reboot Notepad++.

#### **Smoketest**

Open XAMPP Control Panel, and start Apache and MySQL.

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015]



When Windows Firewall pop up, just allow access.



## Windows Security Alert



# Windows Firewall has blocked some features o

Windows Firewall has blocked some features of mysqld.exe on all public and p



mysgld.exe Name:

Publisher: Unknown

C:\xampp\mysql\bin\mysqld.exe Path:

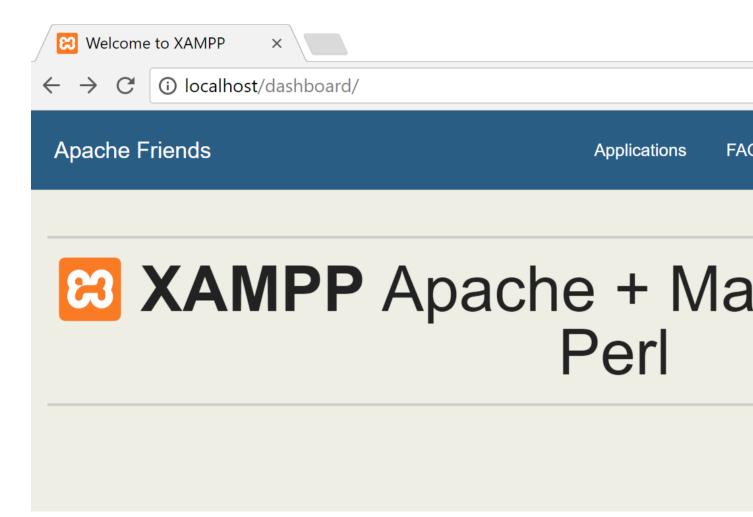
Allow mysqld.exe to communicate on these networks:

Public networks, such as those in airports and cafés (not recommended) because these networks often have little or no security)

What are the risks of allowing an app through a firewall?



Access <a href="http://localhost">http://localhost</a> by Chrome.



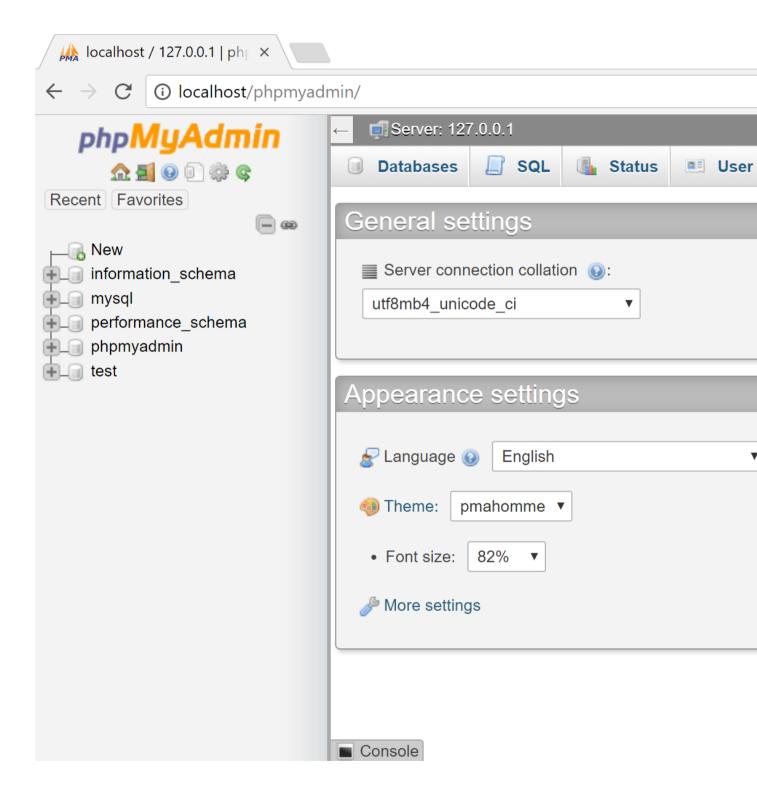
# Welcome to XAMPP for Windows

You have successfully installed XAMPP on this system! Now you can start used components. You can find more info in the FAQs section or check the HOW-applications.

XAMPP is meant only for development purposes. It has certain configuration

When the above dashboard page is shown, it should be fine. Then click phpMyAdmin.

You will see phpMyAdmin page.





# Deploy the sample system

## Setup database

- Verify Apache and MySQL is running by clicking start button on XAMPP Control Panel.
- · Open Comand prompt.
- Change your current directory to C:\xampp\mysql\bin
- Type command *mysql -u root -p*
- Enter password nothing. (Just Enter. Default root password of MySQL is none)
- You should be logging in.

Command Prompt - mysql -u root -p

```
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.25-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab ar
Type 'help;' or '\h' for help. Type '\c' to clear the curre
MariaDB [(none)]>
```

- Set password of root.
  - Type command USE MYSQL;
  - Type command SET PASSWORD FOR 'root'@'localhost' = PASSWORD('pass');
  - o In this case, root password is set to pass
  - Type command FLUSH PRIVILEGES;
  - o Try logoff and login with root by new password.

- · Modify my.ini config file.
  - Open my.ini file in C:\xampp\mysql\bin by Notepad++.
  - Line 19, modify "# password = your\_password" to "password = pass".
  - Save it.

#### Create database

- o Login by root.
- Type command CREATE DATABASE sampledb CHARACTER SET utf8 COLLATE utf8\_general\_ci;
- Type command SHOW DATABASES;
- o You will see the sampledb was created.

- Create a dedicated user for sampledb.
  - Type command CREATE USER 'sample'@'localhost' IDENTIFIED by 'pass';
  - In this case, the password of sample was set to pass
  - Type command GRANT ALL PRIVILEGES ON sampledb.\* TO 'sample'@'localhost';
  - Logoff by entering \q
- Connect sampledb database by sample user.
  - o Type command to login by user sample to mysql. mysql −u sample −p
  - Type command USE sampled;
  - o You will see you are connecting to sampledb now.

```
C:\xampp\mysql\bin>mysql -u sample -p
Enter password: ****
Welcome to the MariaDB monitor. Commands end with ; or
Your MariaDB connection id is 5
Server version: 10.1.25-MariaDB mariadb.org binary dist
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation A
Type 'help;' or '\h' for help. Type '\c' to clear the of
MariaDB [(none)]> USE sampledb;
Database changed
MariaDB [sampledb]>
```

#### Setup tables

You are creating three tables. "member", "tempmember", and "states" tables. member table is the master records of authenticated users.

tempmember table is used as a temporary table before registering new users to member table.

states table is the master records of Indian states which is referred by the other two tables. You can check the fields information from those scripts you run.

- Unzip SetupDatabase\_1.0.zip, and copy the script files in it, member.sql, tempmember.sql, and states.sql to the directory C:\xampp\mysql\bin
- Open command prompt and move to C:\xampp\mysql\bin, login as sample by the command mysql -u sample -p
- Type command *USE sampledb*;
- Run the scripts you copied. Type command for example, \. member.sql
- So do for the other scripts. \. tempmember.sql \. states.sql
- Verify tables are created. Type command select \* from , or show fields from

```
MariaDB [sampledb]> select * from states;
 id
       states
       Andhra Pradesh
   1
   2
       Arunachal Pradesh
   3
       Assam
   4
       Bihar
   5
       Chhattisgarh
   6
       Goa
   7
       Gujarat
   8
       Haryana
   9
       Himachal Pradesh
       Jammu and Kashmir
  10
       Jharkhand
  11
       Karnataka
  12
 13
       Kerala
 14
       Madhya Pradesh
       Maharashtra
 15
  16
       Manipur
 17
       Meghalaya
       Mizoram
  18
  19
       Nagaland
  20
       Odisha
 21
       Punjab
 22
       Rajasthan
 23
     Sikkim
     Tamil Nadu
  24
 25
     Telangana
  26
     Tripura
  27
       Uttar Pradesh
  28
```

Uttarakhand

```
MariaDB [sampledb]> select * from member;
                   password
 1 | user@example.in | $2y$10$jUaIP/qDbBFIJFEPfd/W2ewsCIzoGPrbxCaHOdWjwQFUNRGoKT4DS
 row in set (0.00 sec)
MariaDB [sampledb]> show fields from tempmember;
 Field
                                             Null
                                                     Key
                                                           Default
                 Type
  id
                 mediumint(8) unsigned
                                             NO
                                                     PRI
                                                            NULL
                 varchar(50)
  username
                                             YES
                                                            NULL
                 varchar(128)
                                             YES
                                                            NULL
  password
                 varchar(50)
 last name
                                             YES
                                                            NULL
                 varchar(50)
  first_name
                                             YES
                                                            NULL
  birthday
                 char(8)
                                             YES
                                                            NULL
                 smallint(6)
  states
                                             YES
                                                            NULL
  link pass
                 varchar(128)
                                             YES
                                                            NULL
  reg_date
                 datetime
                                             YES
                                                            NULL
 rows in set (0.04 sec)
```

## Deploy sample system code

Unzip SampleSystemCode\_1.0.zip. It consists of the below folders and source code files.



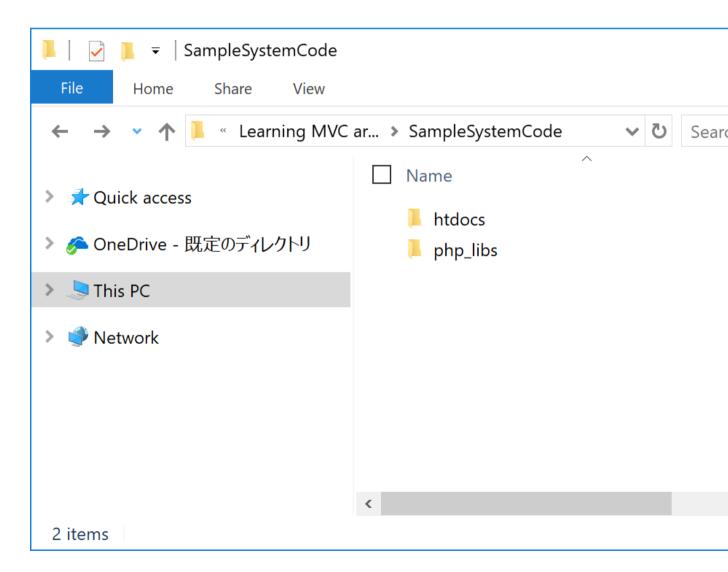
```
admin_login.tpl
admin_top.tpl
tempmember.tpl
templates_c
```

Blue are the folders.

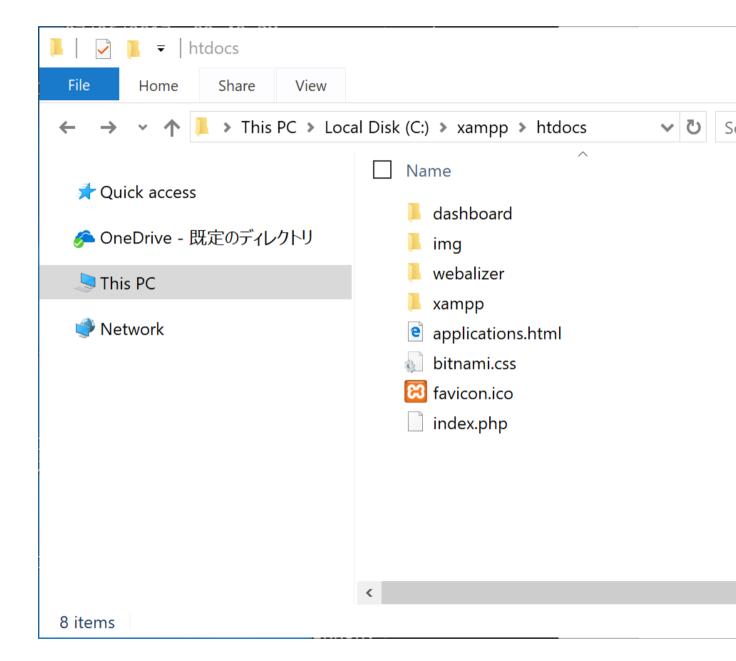
Purple are files you are going to learn and decipher;-).

Now I explaine how to deploy sample code.

You see unzipped contents of SampleSystemCode\_1.0.zip like the following file explore.

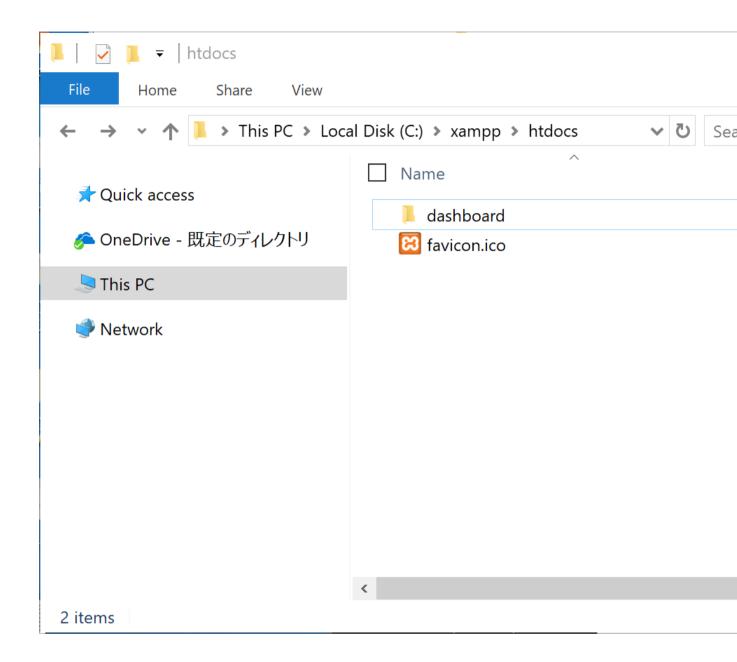


You will copy all files in htdocs folder to the DocumentRoot of apache. As for XAMPP of Windows, DocumentRoot is C:\xampp\htdocs

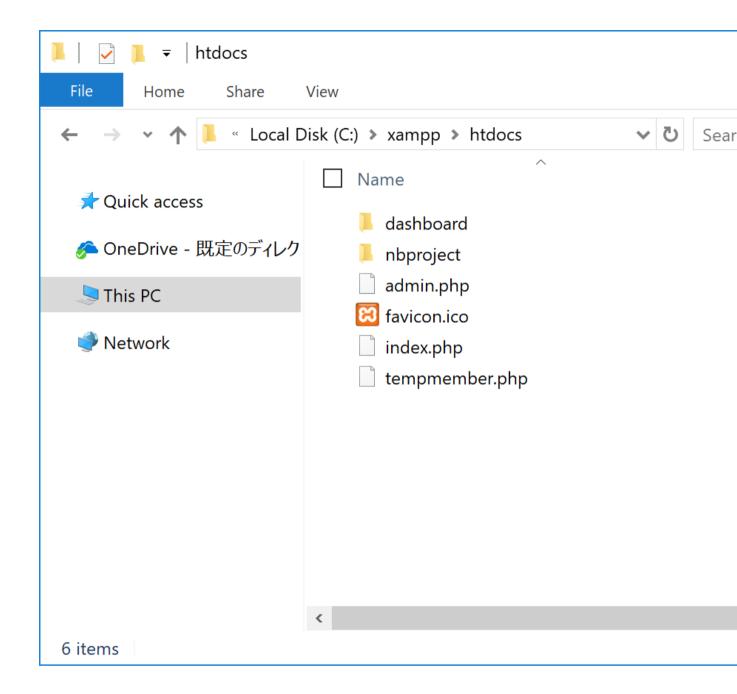


You can remove all default files and folders in C:\xampp\htdocs.

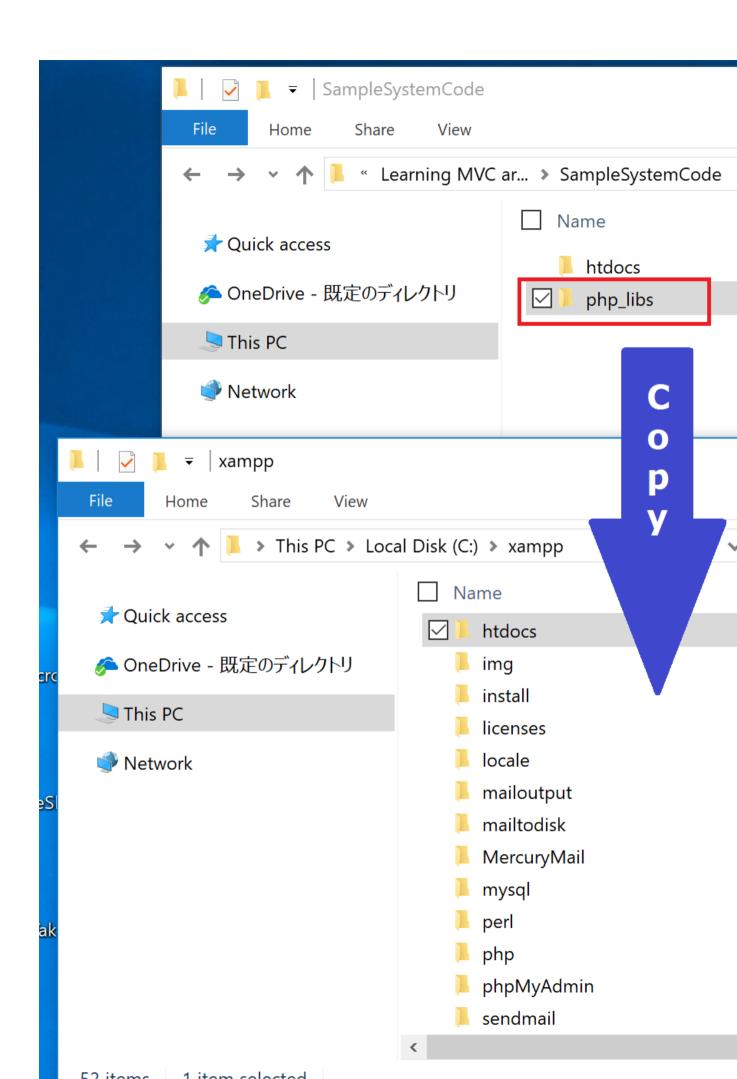
For me I left the dashboard folder and favicon.ico only.



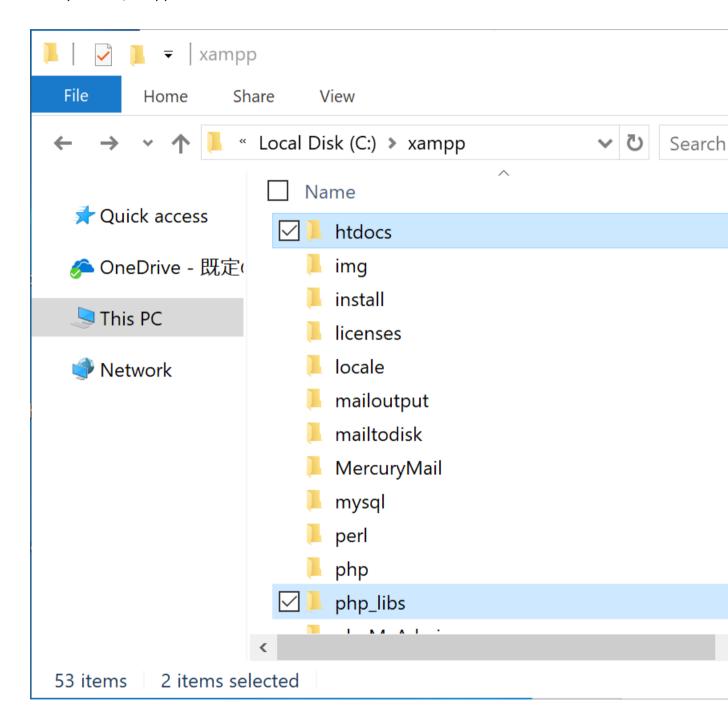
Let's copy the files in htdocs folder of unzipped sample code, and paste them to C:\xampp\htdocs



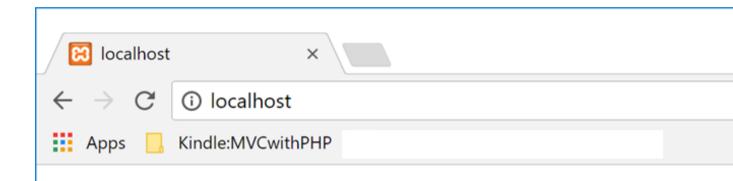
Back to C:\xampp, copy entire php\_libs folder to the same level of of DocumentRoot.



Now your C:\xampp folder is like this.



### Access <a href="http://localhost">http://localhost</a>



Warning: require\_once(HTML/QuickForm.php): failed to open stream: I C:\xampp\php\_libs\init.php on line 114

Fatal error: require\_once(): Failed opening required 'HTML/QuickForm C:\xampp\php\_libs\init.php on line 114

Error message telling us you have no HTML\_Quickform pear module. Go to C:\xampp\php and type command *pear list* 

No HTML\_Quickform here.

Install HTML\_Quickform pear module by typing pear install HTML\_Quickform

Installed.

```
C:\xampp\php>pear install HTML_Quickform
WARNING: "pear/HTML_QuickForm" is deprecated in favor of "pe
WARNING: "pear/HTML_Common" is deprecated in favor of "pear,
downloading HTML_QuickForm-3.2.14.tgz ...
Starting to download HTML_QuickForm-3.2.14.tgz (103,993 byte
.....done: 103,993 bytes
downloading HTML_Common-1.2.5.tgz ...
Starting to download HTML_Common-1.2.5.tgz (4,617 bytes)
...done: 4,617 bytes
install ok: channel://pear.php.net/HTML_Common-1.2.5
install ok: channel://pear.php.net/HTML QuickForm-3.2.14
C:\xampp\php>pear list
INSTALLED PACKAGES, CHANNEL PEAR.PHP.NET:
_____
PACKAGE
                VERSION STATE
Archive Tar 1.4.0 stable
Console_Getopt 1.4.1 stable HTML_Common 1.2.5 stable
HTML QuickForm 3.2.14 stable
PEAR
               1.10.1 stable
Structures_Graph 1.1.1 stable
XML Util
         1.3.0 stable
```

Access http://localhost again.

It must be fine.

Login Page
Please login
Register he

Deployment of the sample code is done.

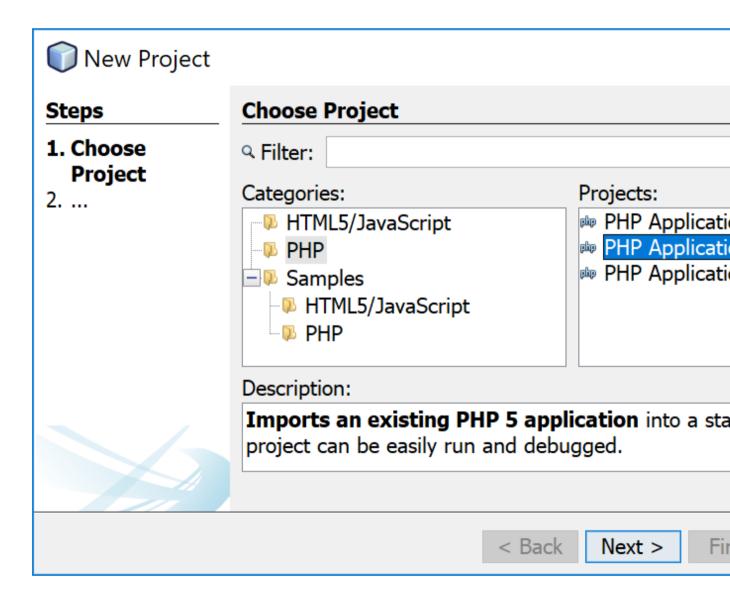
### **NetBeans Setup**

Create a project on NetBeans so that you can read and modify the Sample Auth System code.

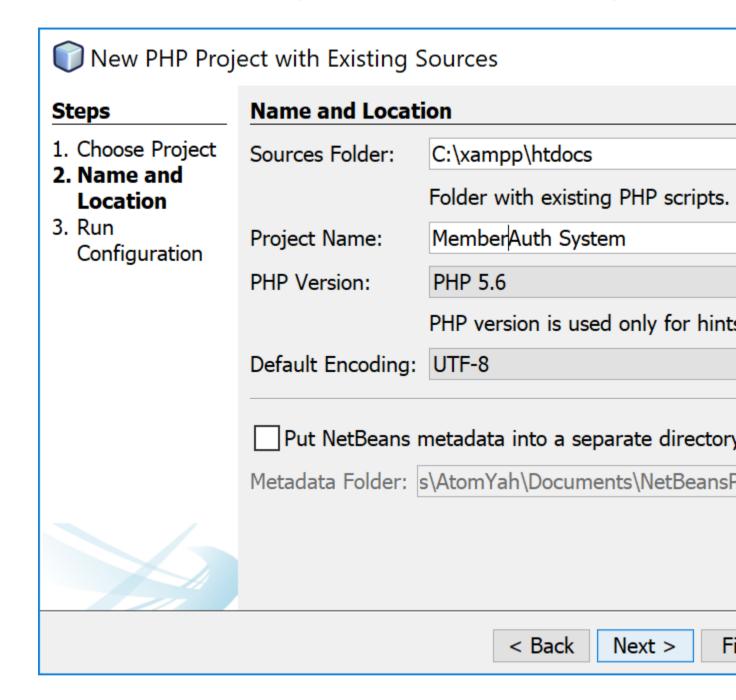
Open NetBeans.

From File - New Project

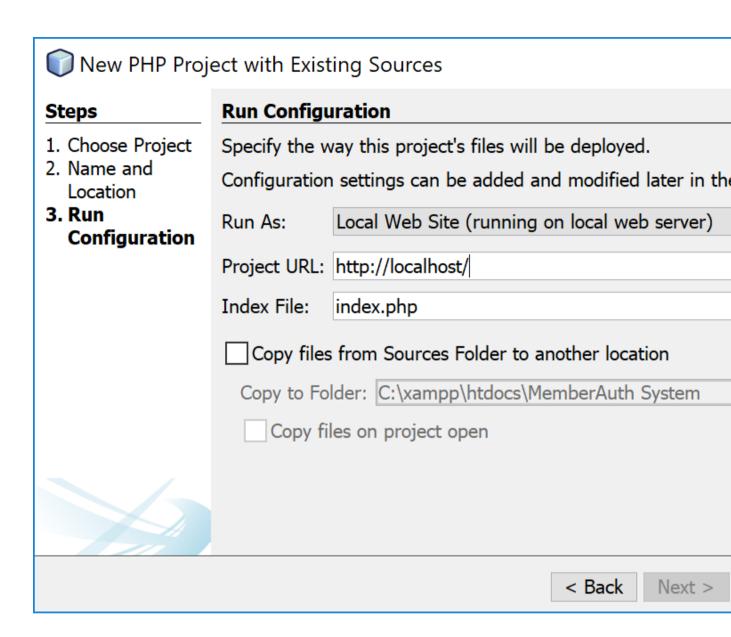
Categories: PHP, Projects: PHP Application with Existing sources



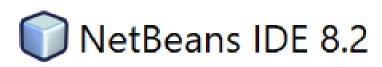
Source Folder: C:xampp\htdocs, Project Name: MemberAuth System or anything.



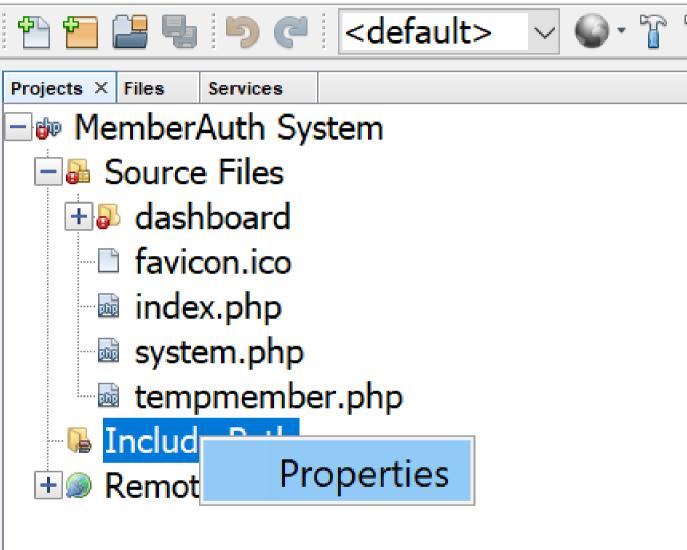
Project URL: http://localhost, Index File: index.php



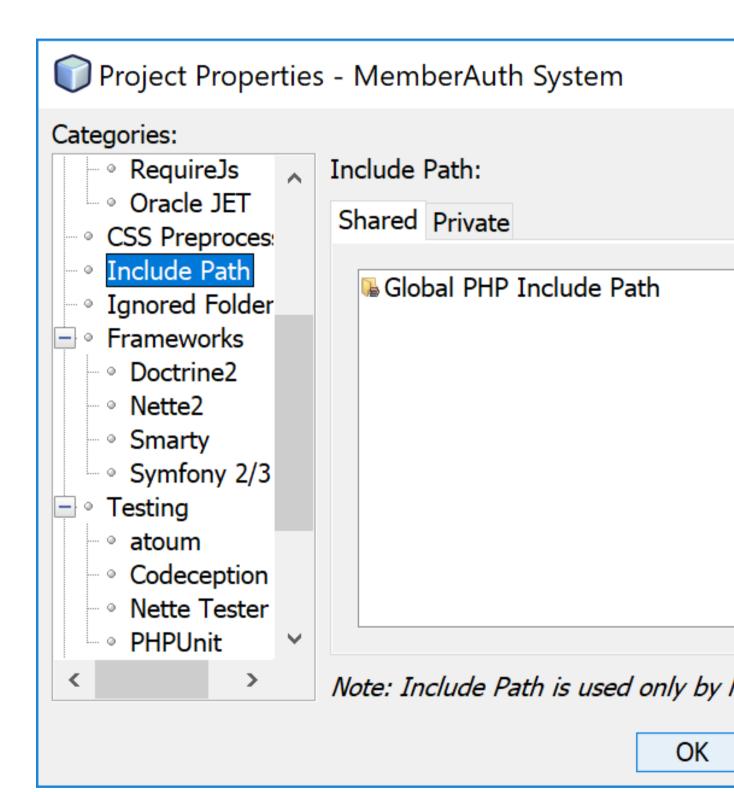
In the left pane, right-click Include Path, click Properties.

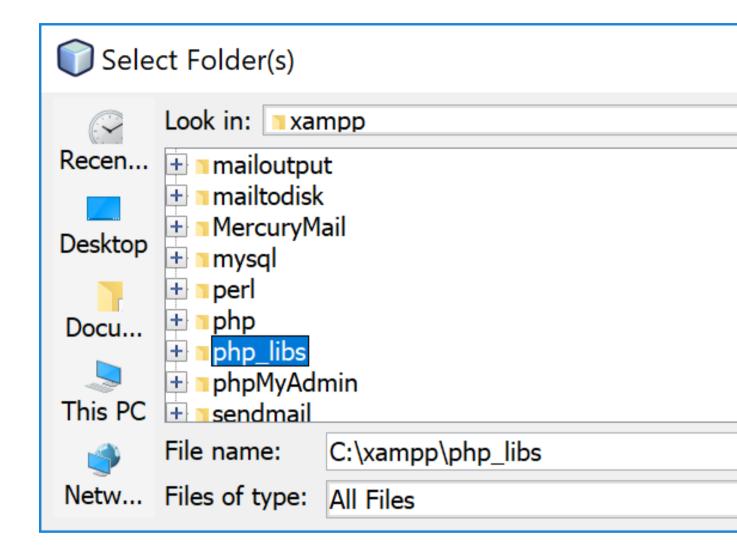


## File Edit View Navigate Source Refactor



Click Add Folder...



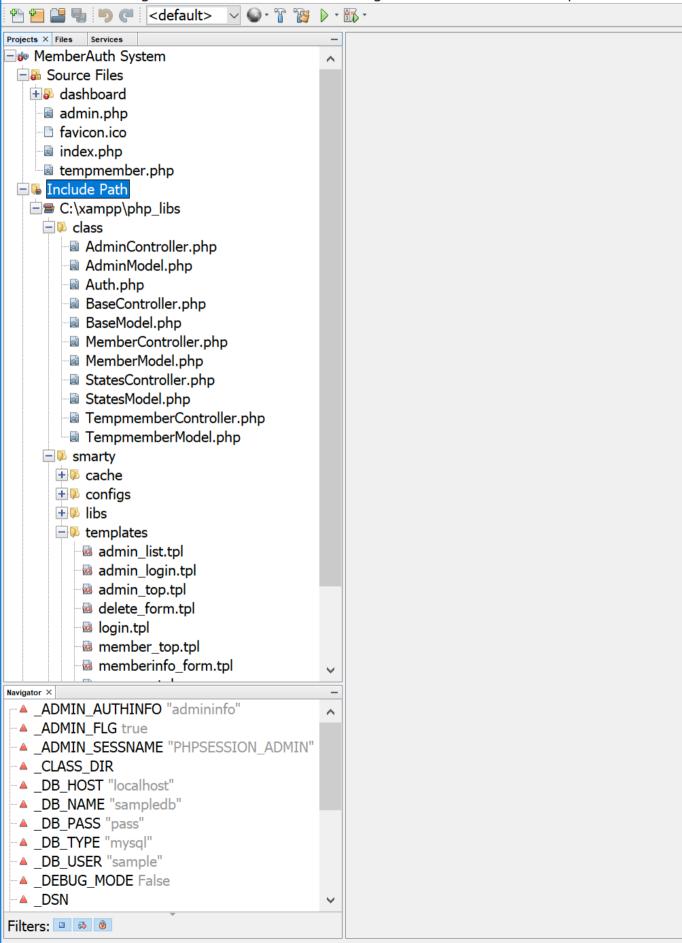


### Click OK.

Now You can open, view, modify all source code files you deployed, on NetBeans.



File Edit View Navigate Source Refactor Run Debug Team Tools Window Help



Some possibility to encounter the error when you open sample source codes in NetBeans.



### Question



 $oldsymbol{G}$  The file C:/xampp/php\_libs/class/Auth.php cannot be safely opened with  $\epsilon$ want to continue opening it?

Resolution – Go to the directory C:\Program Files\NetBeans 8.2\etc Open netbeans.conf.

Line 46, you see the parameter 'netbeans\_default\_options='. At the end of line, add "-J-Dfile.encoding=UTF-8".

netbeans\_default\_options="-J-client -J-Xss2m -J-Xms32m -J-Dapple.laf.useScreenMenuBar=true -J-Dapple.awt.graphics.UseQuartz=true -J-Dsun.java2d.noddraw=true -J-Dsun.java2d.dpiaware=true -J-Dsun.jav Dsun.zip.disableMemoryMapping=true -J-Dfile.encoding=UTF-8"

Save netbeans.conf and restart NetBeans.



# Deploy the sample system - for admin

Setup sample auth system for admin page only requires to create an **admin** table. Please execute **admin.sql**. That's all.

By creating this table, the login account named 'admin' is created in the admin table.

When you log in to http://localhost/admin.php with the admin account, the administration screen opens and you can list all the general users.

Furthermore, you can delete or update each general user.

### Setup tables

You are creating three tables. "admin". admin table is the master record of admin user only.

- Unzip SetupDatabase\_1.0.zip, and copy the script files in it, admin.sql to the directory C:\xampp\mysql\bin
- Open command prompt and move to C:\xampp\mysql\bin, login as sample by the command mysql -u sample -p
- Type command *USE sampledb*;
- Run the script you copied. Type command for example, \. admin.sql
- Verify tables are created. Type command *select* \* *from admin*, or *show fields from admin*

```
Command Prompt - mysql -u sample -p
MariaDB [sampledb]> ¥. admin.sql
Query OK, 0 rows affected (0.03 sec)
Query OK, O rows affected (0.04 sec)
Query OK, 1 row affected (0.00 sec)
MariaDB [sampledb]> show tables;
  Tables_in_sampledb
  admin
  member
  states
  tempmember
4 rows in set (0.00 sec)
MariaDB [sampledb]> select * from admin;
  id username password
                  $2y$10$J530FPq0dAFXFR61Ig96Y. yE2Kyqbh. I0hJ1EIN
     admin
1 row in set (0.00 sec)
MariaDB [sampledb]>
```

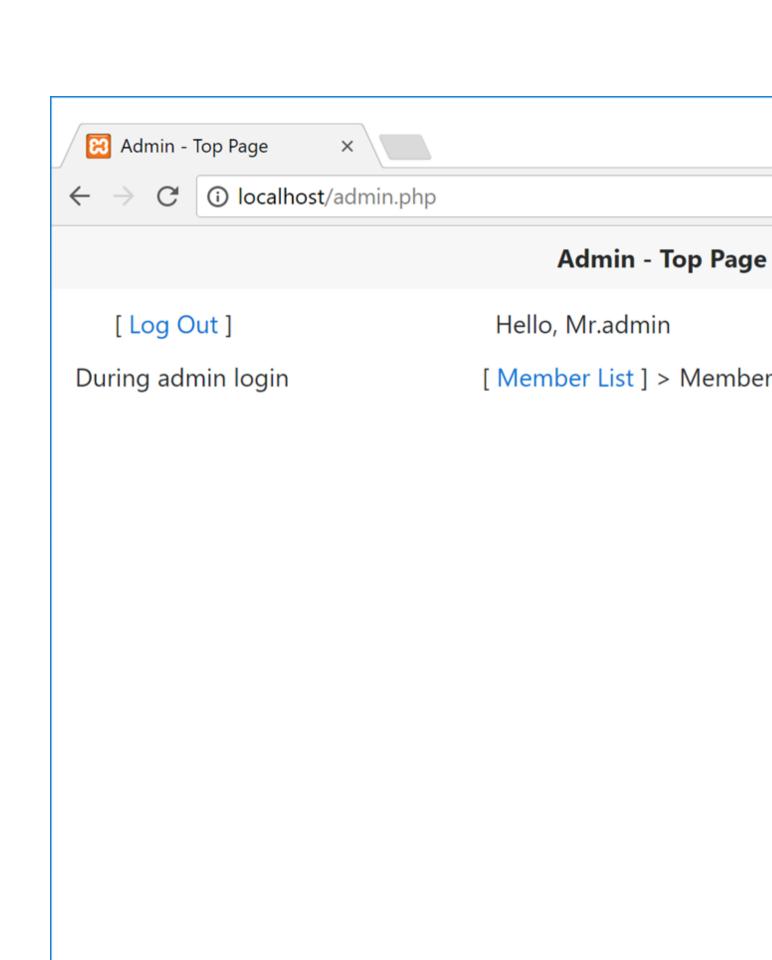
admin ID: admin password: pass

Open <a href="http://localhost/admin.php">http://localhost/admin.php</a>

Login Page ×	
← → ♂ iocalhost/admin.php?type=logout	
	Login Page
ADMIN LOGIN	
UserName:	
Password:	
Login	

Login by 'admin'. password is 'pass'.

After login page.



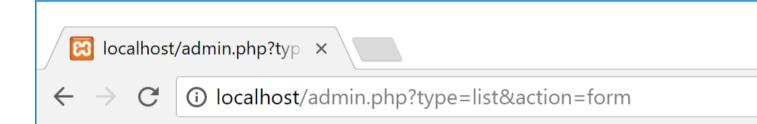
not yet enough..

### Member List Display Setup

### **Pager Install**

Let's list the members after logging in as admin.

Click [ Member List ].



Warning: require\_once(Pager/Jumping.php): failed to open stream: No streamp\php\_libs\class\BaseController.php on line 154

Fatal error: require\_once(): Failed opening required 'Pager/Jumping.php C:\xampp\php\_libs\class\BaseController.php on line 154

errors

It seems that Pager/Jumping is not installed. Pager/Jumping is a Pear library.

Open a command prompt and move to C:\xampp\php.

Then type command,
C:\xampp\php>pear install Pager

Installed.

```
C:\xampp\php>pear install Pager
downloading Pager-2.5.1.tgz ...
Starting to download Pager-2.5.1.tgz
 .....done: 36,596 bytes
install ok: channel://pear.php.net/Pag
C:\xampp\php>pear list
       ED PACKAGES, CHANNEL PEAR, PHP. N
PACKAGE
                          STATE
Archive Tar
                          stable
Console Getopt
                          stable
    Common
                          stable
    QuickForm
                          stable
                          stable
                          stable
'ager
Structures_Graph
                          stable
XML Util
                  1. 3. 0
                          stable
```

Displayed ok.

Admin -	Member List Pag ×		
← → G	i localhost/admin.php?type=list&action=form		
		Admin - Member List F	
[ Go to	Top Page ]		
During adr	nin login	[ Register as New Member ]	
		Name:	
Search Res	ult:1 counts		

ID	LAST NAME	FIRST NAME	BIRTHDAY	STATES
1	Singh	Deepak	1950/01/01	Andhra Pradesł

Insert test user data	
Then, in order to see the movement of Pager, INSERT the test data to the member table.  Test data has about 20 members.	
Copy testuserdata.sql file to the directory C:\xampp\mysql\bin.	
Open a command prompt and move to C:\xampp\mysql\bin.  After logging in to mysql with the command mysql - u sample - p, please access sampledb with the command >use sampled;	
Next, type command, >\. testuserdata.sql	
test members were inserted.	

### Command Prompt - mysgl -u sample -p MariaDB [sampledb]> select \* from member; password id last\_name fii username \$2y\$10\$jUaIP/qDbBFIJFEPfd/W2ewsCIzoGPrbxCaHOdWjwQFUNRGoKT4DS \$2y\$10\$EGPV4Lx2qoiGkfiquFxW9uX0hHj1symGCGsVd4XoteYSoGLeGMF2u \$2y\$10\$EGPV4Lx2qoiGkfiquFxW9uX0hHj1symGCGsVd4XoteYSoGLeGMF2u \$2y\$10\$EGPV4Lx2qoiGkfiquFxW9uX0hHj1symGCGsVd4XoteYSoGLeGMF2u user@example.in Singh De 23456789 ananda@example.in Ana Devi Asl Vir Sir Sus ashok@example.in Kumar vimala@example.in Das \$2y\$10\$EGPV4Lx2qoiGkfiquFxW9uX0hHj1symGCGsVd4XoteYSoGLeGMF2u\$2y\$10 \$2y\$10\$EGPV4Lx2qoiGkfiquFxW9uXOhHj1symGCGsVd4XoteYSoGLeGMF2u siva@example.in Kaur sushira@example.in Ram Av Mii Yadav mina@example.in avinash@example.in dev@example.in anila@example.in Kumari De Αli 10 An Lal 11 12 13 14 15 Ana anand@example.in Bibi Ind Sul Ta indira@example.in Khatun subush@example.in Bai tara@example.in Sharma Mol mohan@example.in Sah Lal lakshmi@example.in Khan 17 18 19 20 Mandal chandra@example.in Su Patel sujata@example.in suria@example.in barati@example.in Roy Sui Maĥato Bai krishna@example.in Kr Sarkar 21 rows in set (0.00 sec) MariaDB [sampledb]>

again, browse member list.

Admin - N	Member List Pag × Member - Top Page	×
← → G	i localhost/admin.php?type=list&action	=form
		Admin - Member List F
[ Go to	Top Page ]	

During admin login [Register as New Member]

Name:	
-------	--

Sear

Search Result:21 counts

### 1 2 3 Next >>

ID	LAST NAME	FIRST NAME	BIRTHDAY	STATES
1	Singh	Deepak	1950/01/01	Andhra Pradesh
2	Devi	Ananda	1995/01/01	Andhra Pradesh
3	Kumar	Ashok	1995/01/02	Arunachal Prade
4	Das	Vimala	1995/01/03	Assam
5	Kaur	Siva	1995/01/04	Bihar
6	Ram	Sushira	1995/01/05	Chhattisgarh
7	Yadav	Avinash	1995/01/06	Goa
8	Kumari	Mina	1995/01/07	Gujarat
9	Ali	Dev	1995/01/08	Haryana
10	Lal	Anila	1995/01/09	Himachal Prades

* by the way, all user's password is 'pass'.	
Pager and test data setup is done!	

20 new members were inserted + Deepak, sum 21 members on the list.

If any questions or my mistake you found, let me know.



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Atom Yah's Kindle series



## Azure Active Directory と Office 365 で クラウドネイティブな 企業インフラ構築術

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How to deploy your corporate IT infrastructure by Azure Active Directry and Office 365 - You do not have to build servers in your office as well as in a data center (Japanese version)