

GTOOnline Demo Project Setup Instructions:

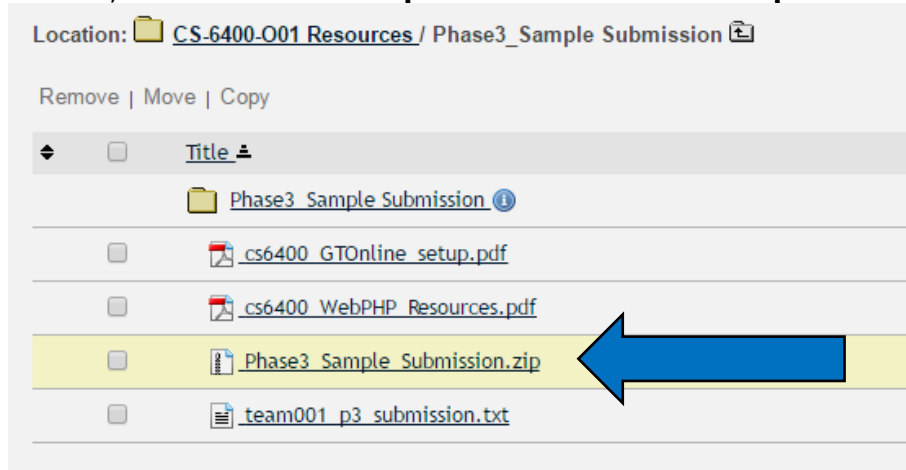
Revised: 6/27/2017

Do NOT use the source code downloaded from Udacity, it is based on the older version of PHP 5.6 so you would need to refactor the connect() to work with 7.1: (fixed in the sample submission on T-square)

```
$connect = mysql_connect("localhost:3306", "gatechUser", "gatech123"); //v5.6
```

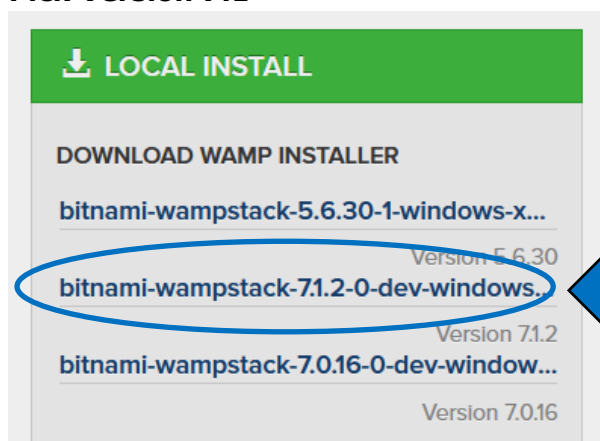
```
$connect = mysqli_connect(DB_HOST, DB_USER, DB_PASS, DB_SCHEMA, DB_PORT); //v7.1
```

Instead, **download the sample submission from T-square:** under Resources



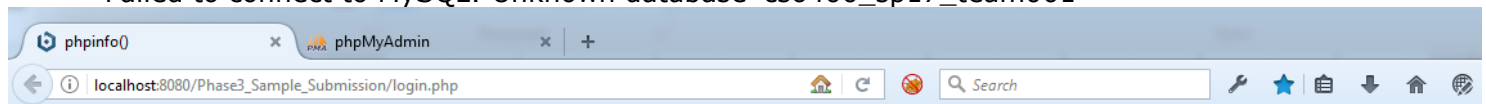
Download Bitnami WAMP/MAMP/LAMP stack installed: <https://bitnami.com/stacks/infrastructure>

Pick Version 7.1



Until you import your database AND create the gatechUser, you will the following error messages:

- Access denied for user 'gatechUser'@localhost (using password: YES)
- Failed to connect to MySQL: Unknown database 'cs6400_sp17_team001'



Failed to connect to MySQL: Access denied for user 'gatechUser'@'localhost' (using password: YES)

Running on: localhost:3306

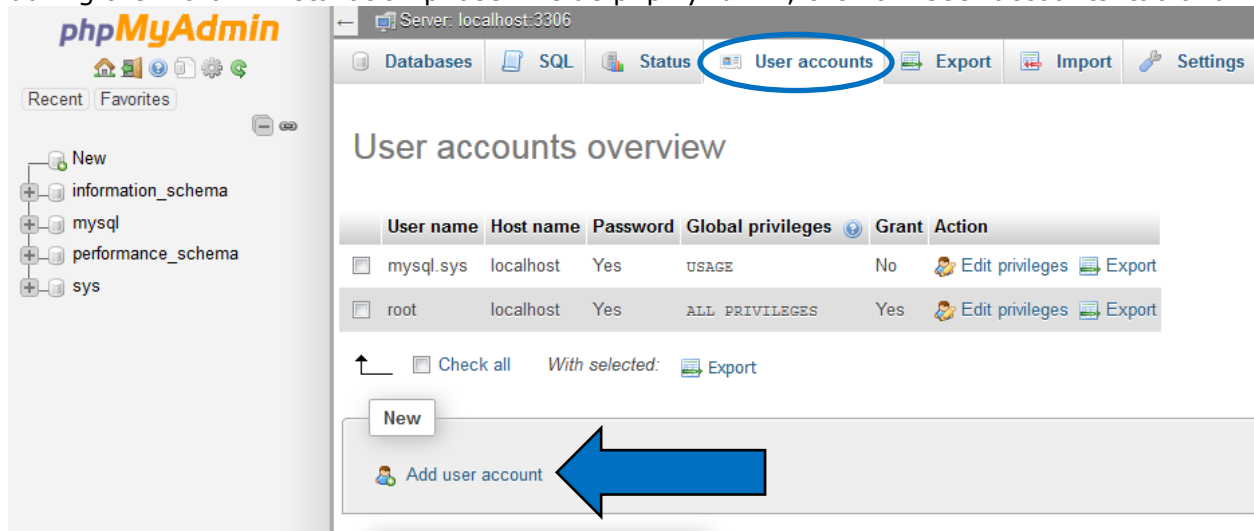
Username: gatechUser

Password: gatech123

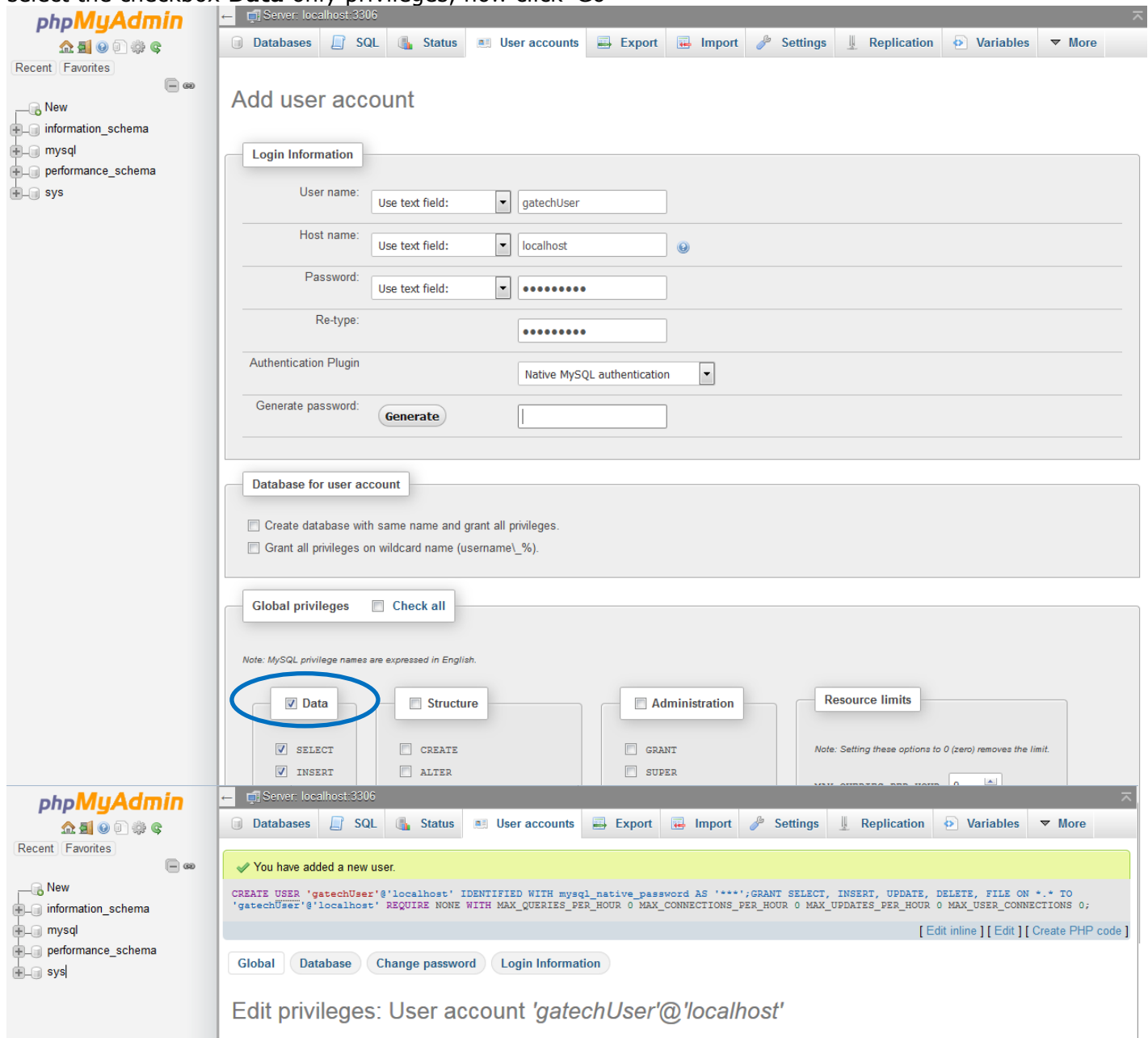
Database: cs6400_sp17_team001

PHP Version 7.1.2	Failed to connect to MySQL: Unknown database 'cs6400_sp17_team001' Running on: localhost:3306 Username: gatechUser Password: gatech123 Database: cs6400_sp17_team001	
System		Pack 1) AMD64
Build Date		
Compiler		
Architecture		
Configure Command	cscript morogo configure.js --enable-snapsnot-build --enable-debug-pack" "--with-pdo-oci=c:\php-sdk\oracle\w64\instantclient_12_1\sdk,shared" "--with-oci8-12c=c:\php-sdk\oracle\w64\instantclient_12_1\sdk,shared" "--enable-object-out-dir=.\obj/" "--enable-com-dotnet=shared" "--with-mcrypt=static" "--without-analyzer" "--with-pgo"	

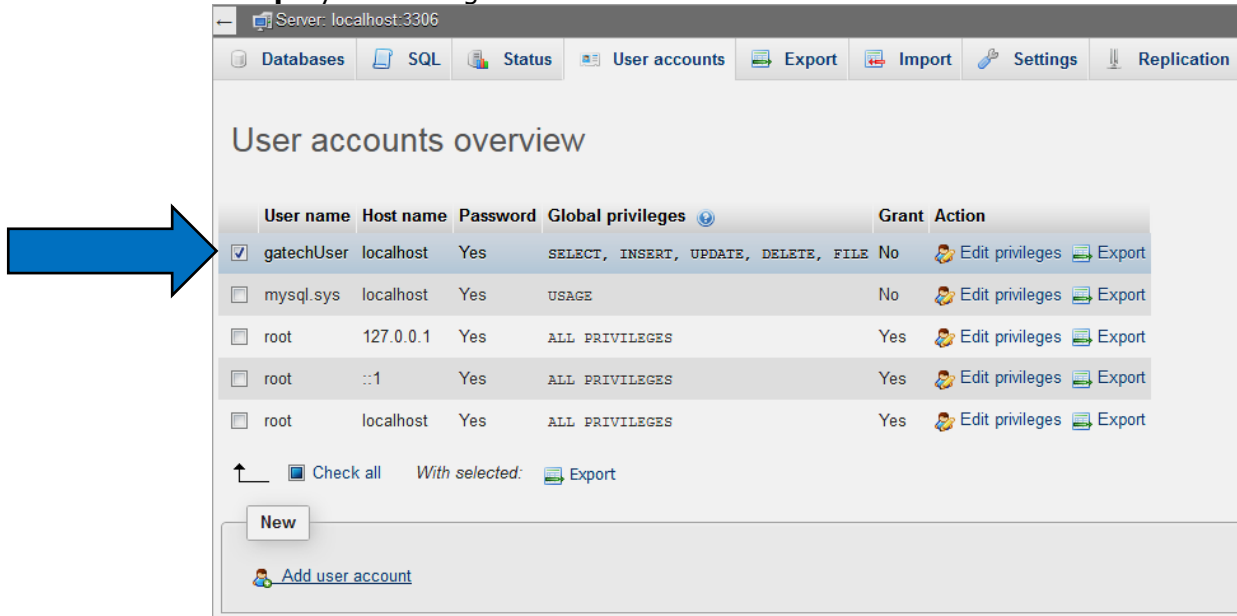
To start, **login** as '**root**' to **phpMyAdmin**: <http://127.0.0.1:80/phpmyadmin/> using the password you entered during the Bitnami installation phase. Inside phpMyAdmin, click on 'User accounts' tab and 'Add user account'



Inside phpMyAdmin, type in the **username**: "**gatechUser**", '**localhost**', and **password** "**gatech123**" twice, select the checkbox **Data** only privileges, now click 'Go'

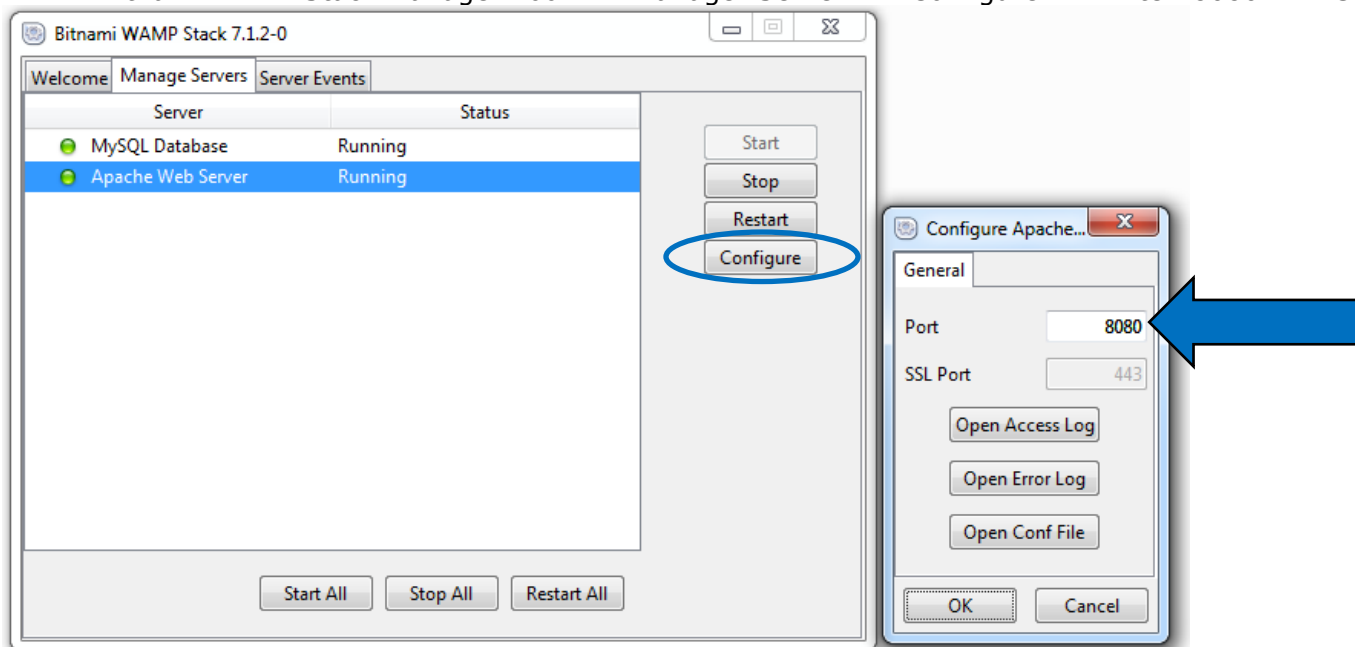


Confirm the Setup by refreshing the User accounts tab:



Optional: To avoid port conflicts with other services you may have installed, update your Apache Web Server **Port** to **8080** (or anything you want) by clicking:

Bitnami WAMP Stack Manager Tool --> Manager Server --> Configure --> Enter '8080' --> **OK**



Optional: Case sensitive table names: portability warning (Linux vs. Windows)

<https://dev.mysql.com/doc/refman/5.7/en/identifier-case-sensitivity.html>

The MySQL server add the following line to **C:\Bitnami\wampstack-7.1.2-0\mysql\my.ini**
[mysqld]

lower_case_table_names = 2

Restart MySQL server for changes to take effect.

Unzip the Phase3_Sample_Submission.zip folder into:

C:\Bitnami\wampstack-7.1.0-0\apache2\htdocs\Phase3_Sample_Submission

C:\Bitnami\wampstack-7.1.0-0\apache2\htdocs\Phase3_Sample_Submission\lib**common.php** contains:

```
define('DB_HOST', "localhost");
define('DB_PORT', "3306");
define('DB_USER', "gatechUser");
define('DB_PASS', "gatech123");
define('DB_SCHEMA', "cs6400_sp17_team001");
```

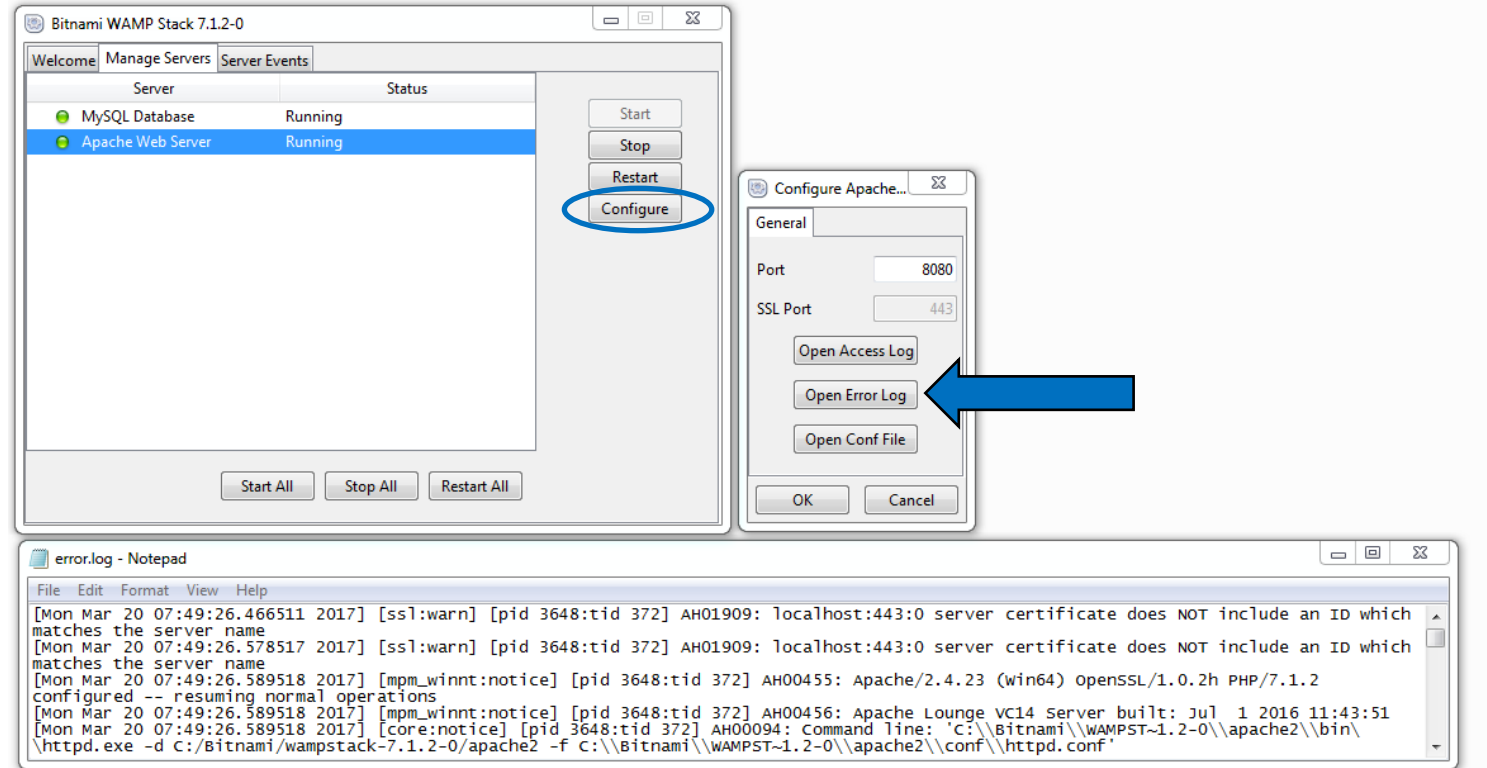
Import the 'team001_p3_complete_v7.sql' database into phpMyAdmin (or schema then seed data):

The screenshot shows the phpMyAdmin interface for a server at localhost:3306. The 'Import' tab is selected in the top navigation bar, indicated by a blue arrow. The main heading is 'Importing into the current server'. Under 'File to import:', there is a text box containing 'team001_p3_complete_v7.sql (Max: 80MiB)' and a 'Browse...' button next to it. Below this, the 'Character set of the file:' is set to 'utf-8'. The 'Partial import:' section has a checked checkbox for 'Allow the interruption of an import...' and a 'Skip this number of queries' field set to 0. The 'Other options:' section has a checked checkbox for 'Enable foreign key checks'. The 'Format:' is set to 'SQL'. The 'Format-specific options:' section has 'SQL compatibility mode' set to 'NONE' and a checked checkbox for 'Do not use AUTO_INCREMENT for zero values'. At the bottom left, a 'Go' button is highlighted with a blue arrow. On the right, a browser window shows an error message: 'Failed to connect to MySQL: Unknown database 'cs6400_sp17_team001''. Below the error message, a purple box displays 'PHP Version 7.1.2'.

Success!

The screenshot shows the phpMyAdmin interface after a successful import. The 'Import' tab is still selected. A green message bar at the top of the main content area states: 'Import has been successfully finished, 94 queries executed. (team001_p3_complete_v7.sql)'. The left sidebar shows the database structure, including a new database 'cs6400_sp17_team001'.

Then **restart your Apache server using Bitnami WAMP Stack Tool**: (secondary http port 8080 is used)
Note: after making changes to source code locally, you will likely need to Restart the Bitnami Apache server to see the changes take effect in the browser. Chrome or Firefox are recommended browsers.



Now **launch the URL**: view the app in your browser
http://localhost:8080/Phase3_Sample_Submission/login.php

Lastly, just click the **login** button since the username and password are *automatically filled*:



The **GTOOnline project** is meant as a learning tool, with verbose comments and limited implementation. One interesting feature of the refactored project is it will show you the queries being executed in the UI. The demo project also show **errors** in the PHP code to **both the UI/View** and the local **error.log**:

```
Error# 1054: Unknown column 'sex' in 'field list'
Query ERROR: Failed to get User profile...C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\view_profile.php line:23

Current filename: view_profile.php
SELECT firstname, lastname, sex, birthdate, currentcity, hometown FROM User INNER JOIN RegularUser ON
User.email=RegularUser.email WHERE User.email='michael@bluthco.com';

SELECT interest FROM UserInterest WHERE email='michael@bluthco.com';

SELECT schoolname, yeargraduated FROM Attend WHERE email='michael@bluthco.com' ORDER BY yeargraduated DESC;

SELECT employername, jobtitle FROM Employment WHERE email='michael@bluthco.com' ORDER BY employername DESC;
```

C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\error.log

```
C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\error.log - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
[Icons]
error log
1 [20-Mar-2017 08:03:25 America/Los_Angeles] PHP Warning: mysqli_connect(): (HY000/1045): Access denied for user 'gatechUser'@'localhost' (using password: YES) in C:\Bitnami\wampstack-7.1.2-0\apache2\ht
2 [20-Mar-2017 08:06:58 America/Los_Angeles] PHP Warning: mysqli_connect(): (HY000/1045): Access denied for user 'gatechUser'@'localhost' (using password: YES) in C:\Bitnami\wampstack-7.1.2-0\apache2\ht
3 [20-Mar-2017 08:31:22 America/Los_Angeles] PHP Warning: mysqli_connect(): (HY000/1049): Unknown database 'cs6400_sp17_team001' in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Sub
4 [20-Mar-2017 08:31:39 America/Los_Angeles] PHP Warning: mysqli_connect(): (HY000/1049): Unknown database 'cs6400_sp17_team001' in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Sub
5 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 140
6 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 140
7 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 152
8 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 153
9 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 160
10 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 166
11 [20-Mar-2017 08:37:09 America/Los_Angeles] PHP Notice: Undefined variable: row in C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\edit_profile.php on line 173
```

Fix the error in **view_profile.php**: User.attribute: 'sex' -> 'gender'

View Profile

SexFemale

Birthdate

Current City

Hometown

Interests

- golf
- indie rock music
- swimming

Education

School

- Georgia Institute of Technology
- University of California
- Phoenix High School

Professional

EmployerBluth Development Company

Job TitleSoftware Developer I

C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\view_profile.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

view_profile.php

```
1 <?php
2
3 include('lib/common.php');
4 // written by GTusername4
5
6 if (isset($_SESSION['email'])) {
7     header('Location: login.php');
8     exit();
9 }
10
11 // ERROR: demonstrating SQL error handling, to fix
12 // replace 'sex' column with 'gender' below:
13 $query = "SELECT firstname, lastname, sex, birthdate, currentcity, hometown
14 FROM User " .
15 "INNER JOIN RegularUser ON User.email=RegularUser.email " .
16 "WHERE User.email='{$_SESSION['email']}'";
17
18 $result = mysqli_query($db, $query);
19 include('lib/show_queries.php');
```

length: 6,970 lines: 169 Ln: 13 Col: 46 Sel: 3 | 1 Windows (CR LF)

Error# 1054: Unknown column 'sex' in 'field list'

Query ERROR: Failed to get User profile...C:\Bitnami\wampstack-7.1.2-0\apache2\htdocs\Phase3_Sample_Submission\view_profile.php line:23

Current filename: view_profile.php

SELECT firstname, lastname, sex, birthdate, currentcity, hometown FROM User INNER JOIN RegularUser ON User.email=RegularUser.email WHERE User.email='michael@bluthco.com';

After updating source code: **Restart** the **Apache server**: (step not needed if using PHPStrom)

The screenshot displays a web application interface with a 'View Profile' section for a user named Michael Bluth. The profile includes fields for Sex (Female), Birthdate, Current City, Hometown, Interests (golf, indie rock music, swimming), Education (Georgia Institute of Technology, University of California, Phoenix High School), and Professional information (Bluth Development Company, Software Developer I). An error message is visible at the bottom of the profile page: 'Error# 1054: Unknown column 'sex' in 'field list' Query ERROR: Failed to get User profile...C:\Bitnami\wampstack-7.1.2-0\view_profile.php line:23'. Overlaid on the right is a Notepad++ window showing the PHP code for 'view_profile.php'. The code includes a SQL query that selects 'sex' from the 'User' table. Below the code is a Bitnami WAMP Stack 7.1.2-0 control panel. The 'Server' tab is active, showing the status of the MySQL Database (Running) and the Apache Web Server (Restarting...). The 'Restart' button for the Apache Web Server is circled in red.

View Profile Edit Profile View Friends Search for Friends View Requests View Status Updates Log Out

View Profile

Sex Female

Birthdate

Current City

Hometown

Interests

- golf
- indie rock music
- swimming

Education

School	Year
Georgia Institute of Technology	2016
University of California	1993
Phoenix High School	1989

Professional

Employer	Job Title
Bluth Development Company	Software Developer I

Error# 1054: Unknown column 'sex' in 'field list'
Query ERROR: Failed to get User profile...C:\Bitnami\wampstack-7.1.2-0\view_profile.php line:23

Current filename: view_profile.php
SELECT firstname, lastname, sex, birthdate, currentcity, hometown, User.email=RegularUser.email WHERE User.email='michael@bluthco.com'

```
1 <?php
2
3 include('lib/common.php');
4 // written by GTusername4
5
6 if (isset($_SESSION['email'])) {
7     header('Location: login.php');
8     exit();
9 }
10
11 // ERROR: demonstrating SQL error handling, to fix
12 // replace 'sex' column with 'gender' below:
13 $query = "SELECT firstname, lastname, gender, birthdate, currentcity, hometown " .
14         "FROM User " .
15         "INNER JOIN RegularUser ON User.email=RegularUser.email " .
16         "WHERE User.email='{$_SESSION['email']}'";
17
18 $result = mysql_query($db, $query);
19 include('lib/show_queries.php');
```

length: 6,973 lines: 169

Bitnami WAMP Stack 7.1.2-0

Server	Status
MySQL Database	Running
Apache Web Server	Restarting...

Start Stop Restart Configure

Notice the UI now correctly shows the result set from the SELECT query:

The screenshot displays the same web application interface, but the profile data has been updated. The 'View Profile' section now shows Sex (Male), Birthdate (1971-01-01), Current City (Phoenix), Hometown (Beverly Hills), and Interests (golf, indie rock music, swimming). The education and professional information remain the same. The error message is no longer present. The Notepad++ window shows the same PHP code, but the SQL query now selects 'gender' instead of 'sex'. The Bitnami WAMP Stack control panel shows the Apache Web Server status as 'Running'.

View Profile Edit Profile View Friends Search for Friends View Requests View Status Updates Log Out

Michael Bluth

View Profile

Sex Male

Birthdate 1971-01-01

Current City Phoenix

Hometown Beverly Hills

Interests

- golf
- indie rock music
- swimming

Education

School	Year
Georgia Institute of Technology	2016
University of California	1993
Phoenix High School	1989

Professional

Employer	Job Title
Bluth Development Company	Software Developer I

Current filename: view_profile.php
SELECT firstname, lastname, gender, birthdate, currentcity, hometown, User.email=RegularUser.email WHERE User.email='michael@bluthco.com'

```
1 <?php
2
3 include('lib/common.php');
4 // written by GTusername4
5
6 if (isset($_SESSION['email'])) {
7     header('Location: login.php');
8     exit();
9 }
10
11 // ERROR: demonstrating SQL error handling, to fix
12 // replace 'sex' column with 'gender' below:
13 $query = "SELECT firstname, lastname, gender, birthdate, currentcity, hometown " .
14         "FROM User " .
15         "INNER JOIN RegularUser ON User.email=RegularUser.email " .
16         "WHERE User.email='{$_SESSION['email']}'";
17
18 $result = mysql_query($db, $query);
19 include('lib/show_queries.php');
```

length: 6,973 lines: 169

Bitnami WAMP Stack 7.1.2-0

Server	Status
MySQL Database	Running
Apache Web Server	Running

Start Stop Restart