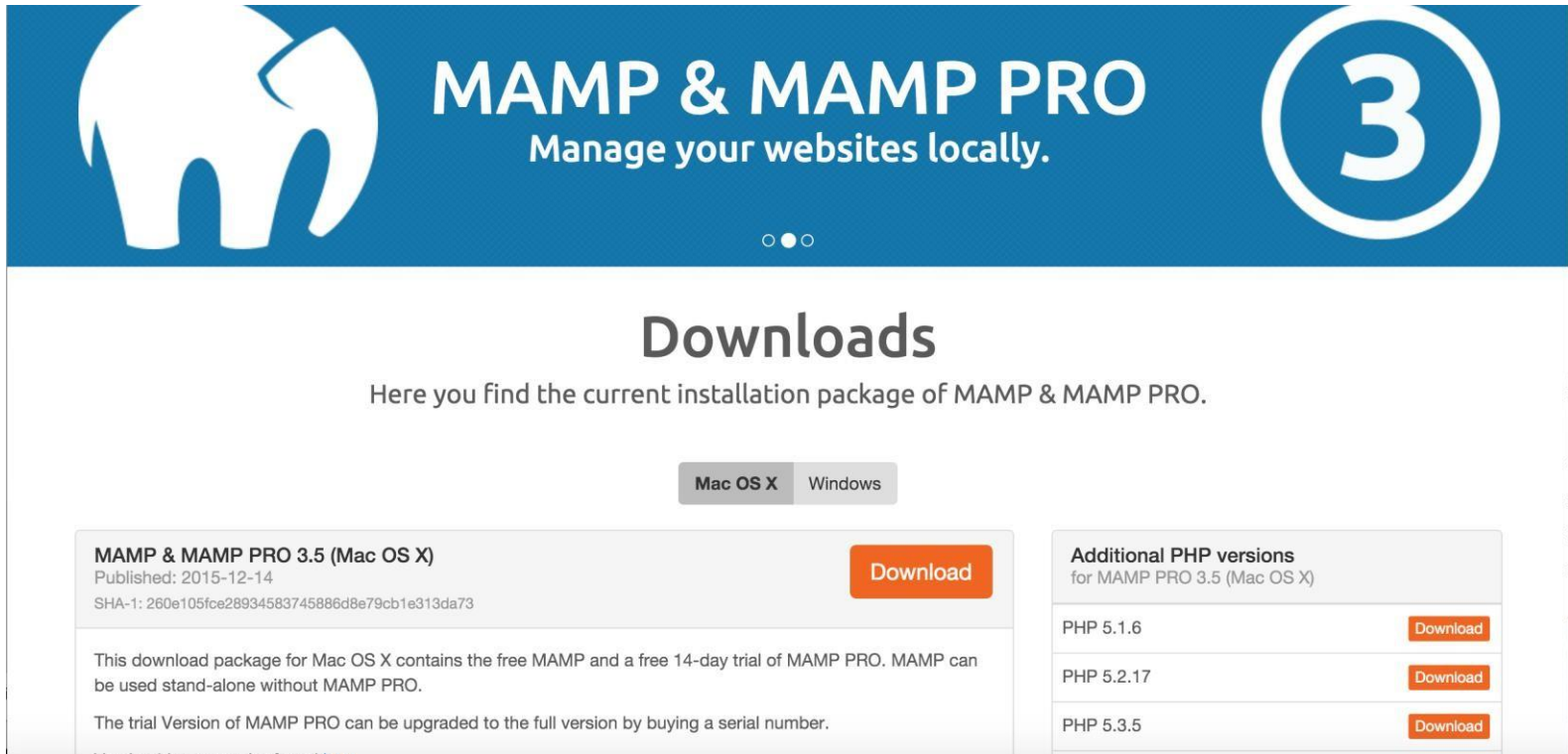


PHP and MySQL Server Tutorial

Wit.AI Setup

1. Setup your own environment

- Step 1: Setup your **PHP** and **Mysql** server.
 - For Windows or Mac OS.
 - Download MAMP (free) from <https://www.mamp.info/en/downloads/>.
 - Install.



The screenshot shows the MAMP & MAMP PRO website. The header is blue with a white elephant logo on the left, the text "MAMP & MAMP PRO" in white, and "Manage your websites locally." below it. On the right is a large white circle with the number "3". Below the header, the word "Downloads" is centered in a large, bold, dark font. Underneath it, a subtitle reads "Here you find the current installation package of MAMP & MAMP PRO." There are two tabs: "Mac OS X" (selected) and "Windows". Below the tabs, there are two main sections. The left section is titled "MAMP & MAMP PRO 3.5 (Mac OS X)" and includes a "Download" button. The right section is titled "Additional PHP versions for MAMP PRO 3.5 (Mac OS X)" and lists three versions: PHP 5.1.6, PHP 5.2.17, and PHP 5.3.5, each with a "Download" button.

MAMP & MAMP PRO
Manage your websites locally.

3

Downloads
Here you find the current installation package of MAMP & MAMP PRO.

Mac OS X Windows

MAMP & MAMP PRO 3.5 (Mac OS X)
Published: 2015-12-14
SHA-1: 260e105fce28934583745886d8e79cb1e313da73

Download

This download package for Mac OS X contains the free MAMP and a free 14-day trial of MAMP PRO. MAMP can be used stand-alone without MAMP PRO.

The trial Version of MAMP PRO can be upgraded to the full version by buying a serial number.

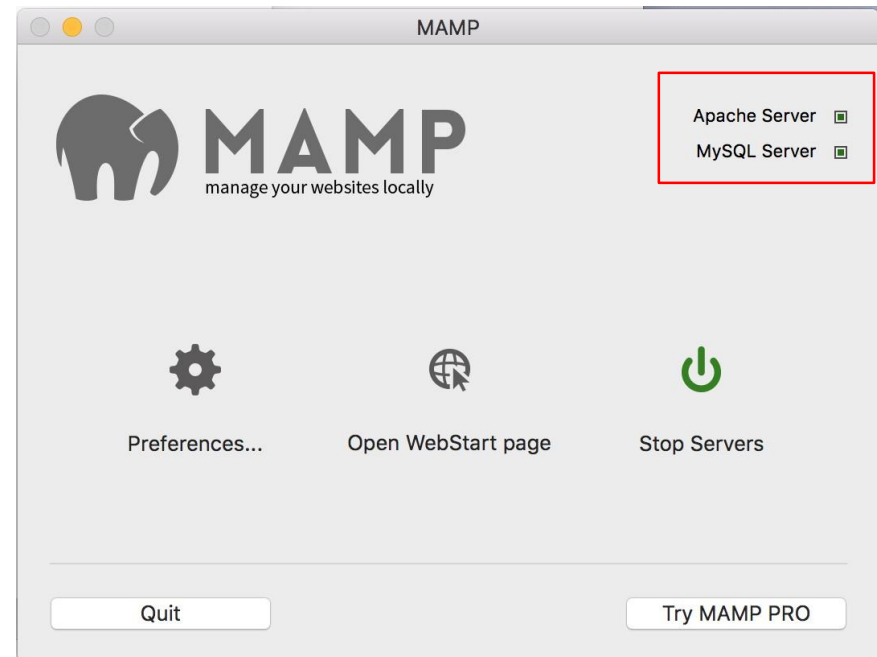
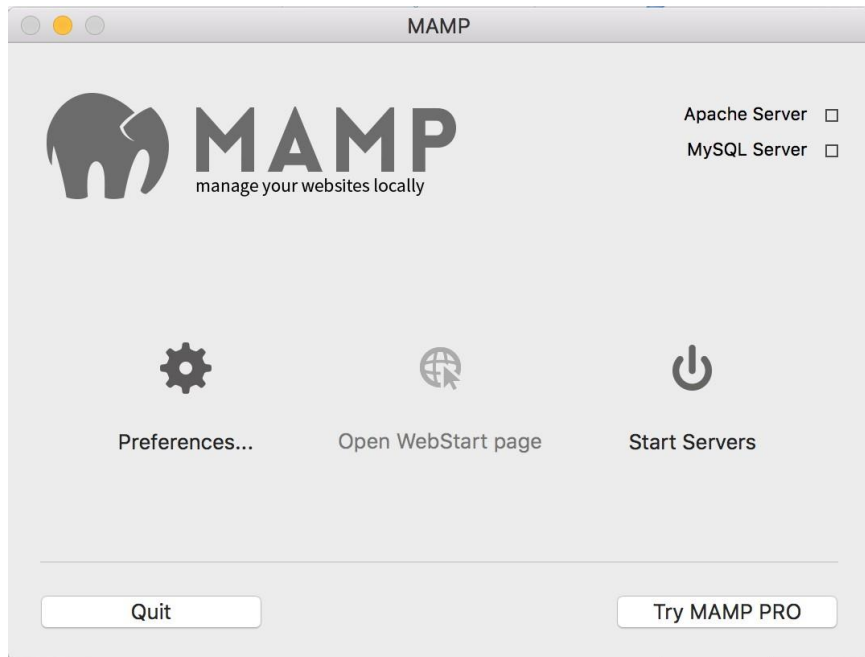
Additional PHP versions for MAMP PRO 3.5 (Mac OS X)

| | |
|------------|-----------------|
| PHP 5.1.6 | Download |
| PHP 5.2.17 | Download |
| PHP 5.3.5 | Download |

1. Setup your own environment

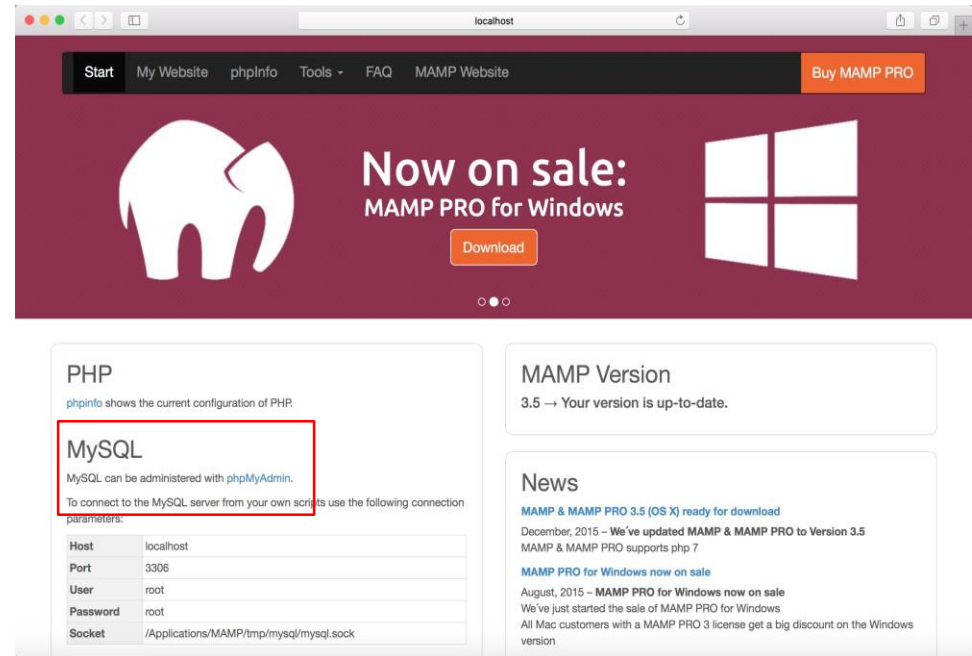
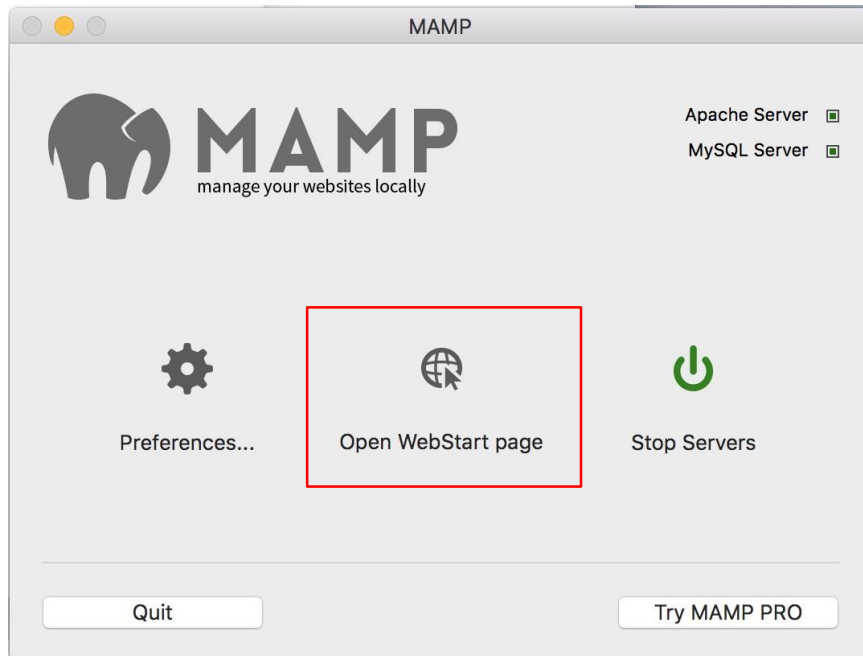
- Step 2: Open your **PHP** and **MySQL** server.
 - For Windows or Mac OS.
 - Run MAMP and click “Start Servers”.

Started



1. Setup your own environment

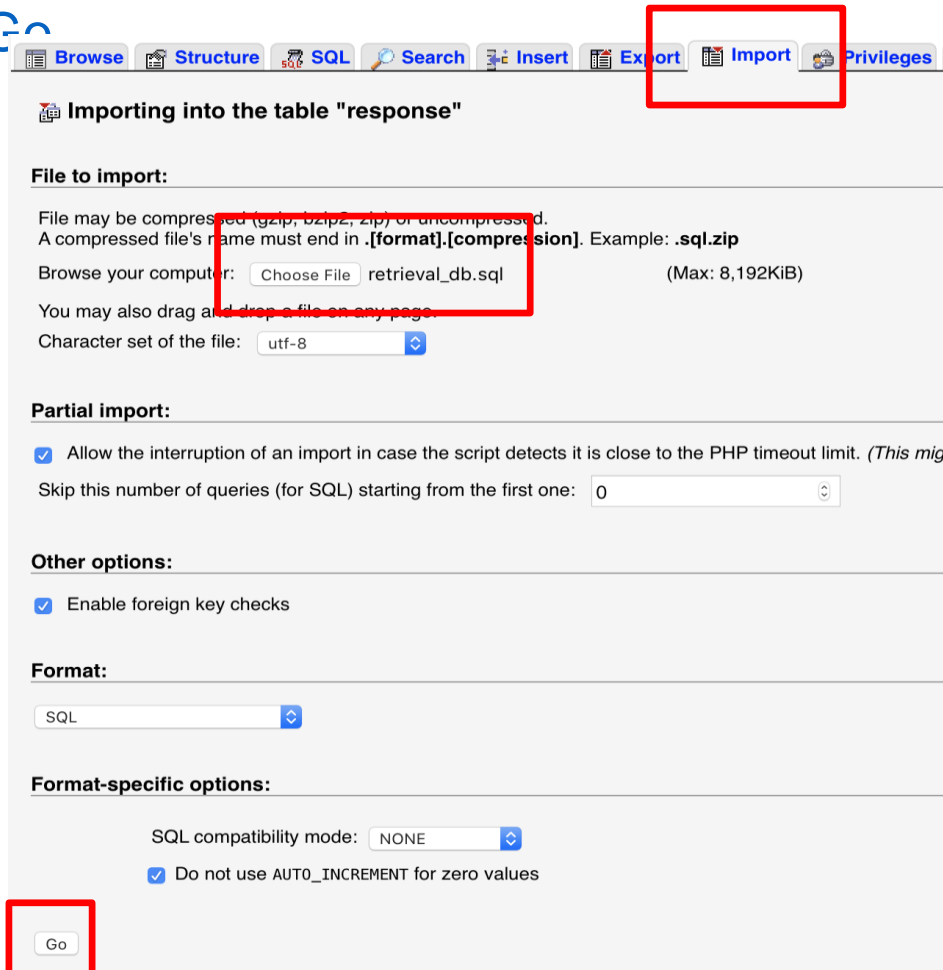
- Step 3: Open phpMyAdmin.
 - For Windows or Mac OS.
 - Run MAMP
 - Click “[Open WebStart page](#)” and “[phpMyAdmin](#)”.



1. Setup your own environment

- Step 4: Import retrieval_db into our own database.
 - For Windows or Mac OS.
 - **Import** -> **Choose File** and then choose “retrieval_db.sql”

-> Go



The screenshot shows the 'Importing into the table "response"' page in phpMyAdmin. The 'Import' button in the top navigation bar is highlighted with a red box. Below it, the 'File to import:' section has a 'Choose File' button and the filename 'retrieval_db.sql' highlighted with a red box. The 'Format:' section shows 'SQL' selected. At the bottom, the 'Go' button is highlighted with a red box.

Importing into the table "response"

File to import:

File may be compressed (gzip, bzip2, zip) or uncompressed. A compressed file's name must end in **[format].[compression]**. Example: **.sql.zip**

Browse your computer: **Choose File** retrieval_db.sql (Max: 8,192KiB)

You may also drag and drop a file on any page.

Character set of the file: utf-8

Partial import:

☒ Allow the interruption of an import in case the script detects it is close to the PHP timeout limit. (This might skip some queries)

Skip this number of queries (for SQL) starting from the first one: 0

Other options:

☒ Enable foreign key checks

Format:

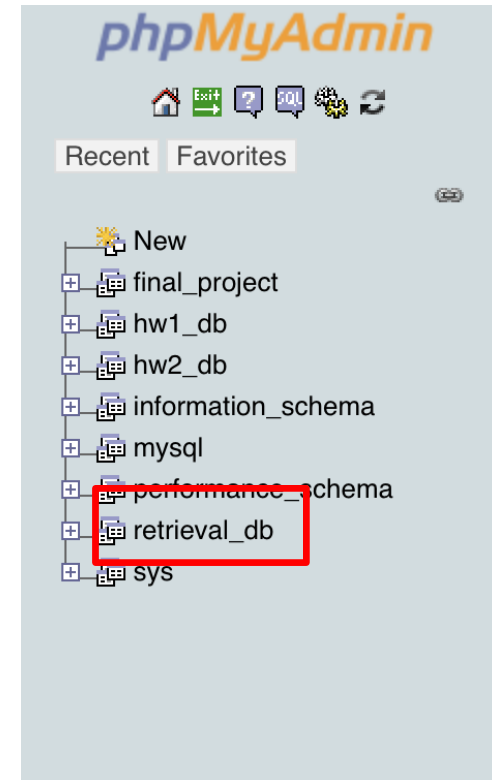
SQL

Format-specific options:

SQL compatibility mode: NONE

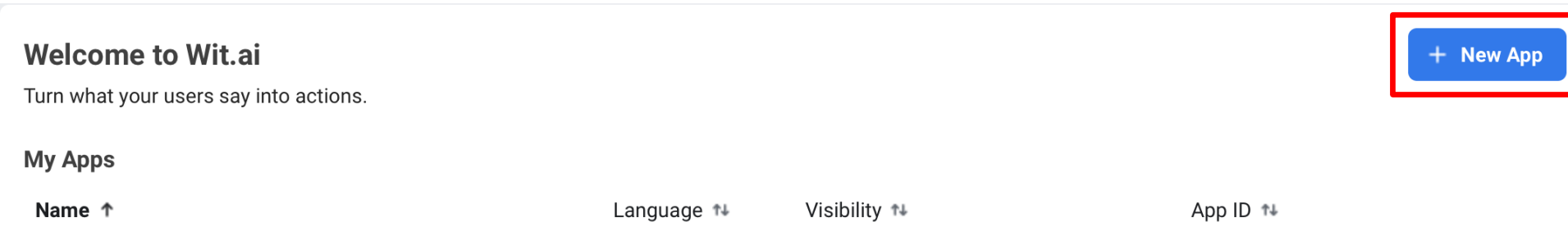
☒ Do not use AUTO_INCREMENT for zero values

Go

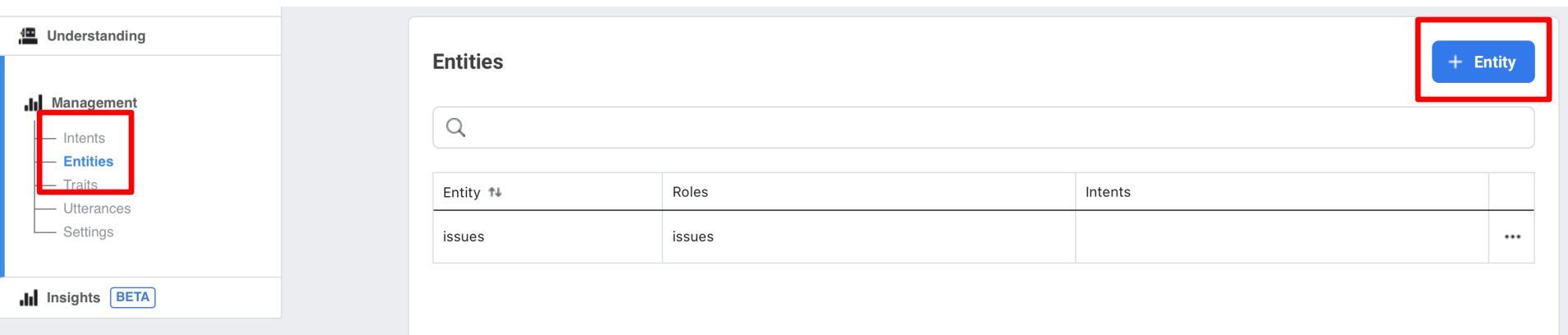


2. Wit.AI

- Step 1:
 - Create a wit.ai account and create a new app



- Create a new entity



2. Wit.AI


- Step 2:
 - Initial your new entity with three keywords

Roles ⓘ

Role

issues

Intents Used

 Add a new role

Lookup Strategies ⓘ

☐

Free Text

An entity that does not belong to a predefined list. You'll use a free-text entity when you're open to new values.

☐

Keywords

An entity that belongs to a predefined list.

☒

Free Text & Keywords

An entity that is defined by a predefined list, but also open to new values.

Keywords and Synonyms

Keyword

fund

Synonyms

make enough money ✕ funding ✕ cannot afford grocery ✕ cannot afford groceries ✕
can't afford to buy grocery ✕ can't afford to buy groceries ✕ can't afford grocery ✕
can't afford groceries ✕ fund ✕

relationship

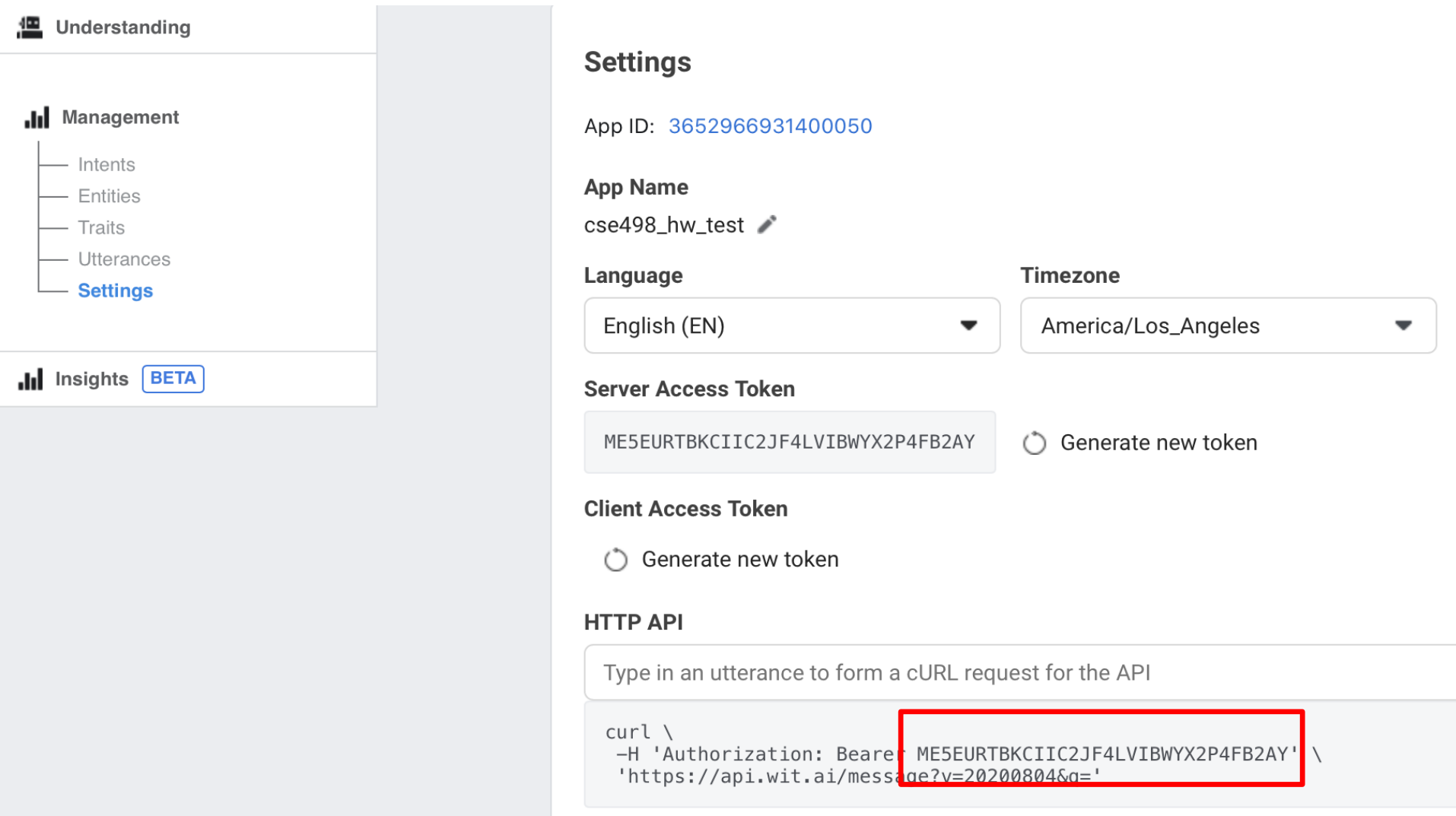
sister ✕ siblings ✕ relationship ✕ parents ✕ obsessed with a girl ✕ no friends ✕
mom ✕ have friends ✕ girlfriend ✕ friendship ✕ friends ✕ fight with my parents ✕
fight with my girlfriend ✕ fight with my friend ✕ fight with my boyfriend ✕ disappoint everyone ✕
dating ✕ dad ✕ brother ✕ boyfriend ✕

exam

quiz ✕ midterm ✕ final ✕ exams ✕ assessment ✕ exam ✕

2. Wit.AI

- Step 3: replace the token in index.php with the one in your new app



The screenshot shows the Wit.AI web interface. On the left is a sidebar with a navigation menu. The main content area is titled 'Settings' and contains several sections: 'App ID', 'App Name', 'Language', 'Timezone', 'Server Access Token', 'Client Access Token', and 'HTTP API'. The 'Server Access Token' section shows a token 'ME5EURTBKCIIC2JF4LVIBWYX2P4FB2AY' and a 'Generate new token' button. The 'HTTP API' section shows a cURL request template with the same token highlighted in a red box.

Understanding


Management

- Intents
- Entities
- Traits
- Utterances
- Settings**

Insights **BETA**


Settings


App ID: [3652966931400050](#)

App Name
cse498_hw_test 

Language
English (EN) ▼

Timezone
America/Los_Angeles ▼

Server Access Token
ME5EURTBKCIIC2JF4LVIBWYX2P4FB2AY  Generate new token

Client Access Token
 Generate new token

HTTP API

Type in an utterance to form a cURL request for the API

```
curl \
-H 'Authorization: Bearer ME5EURTBKCIIC2JF4LVIBWYX2P4FB2AY' \
'https://api.wit.ai/message?v=20200804&q='
```

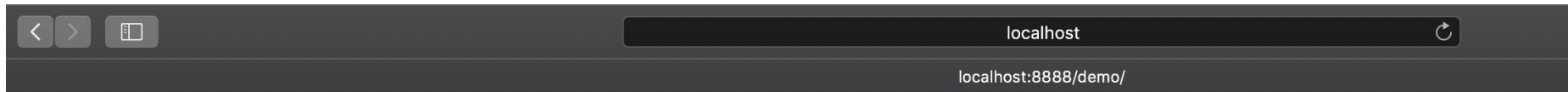
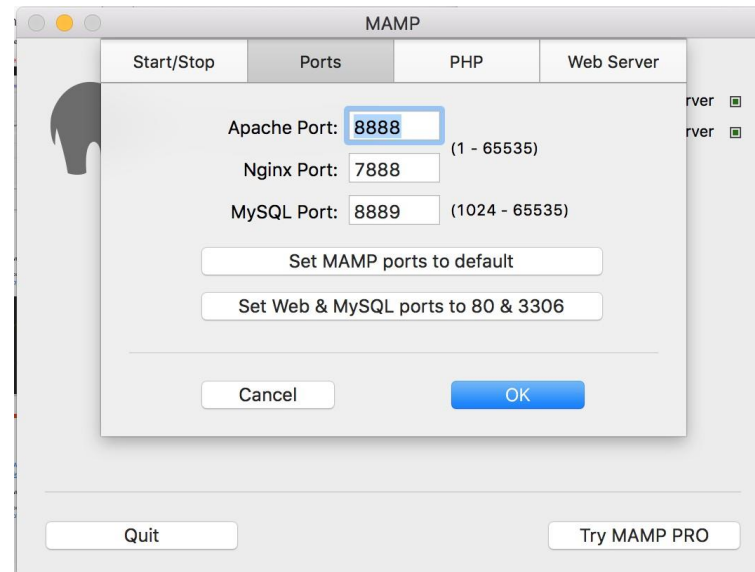

3. PHP access Mysql

- Step 1:
 - Create a folder “demo” under the path of your own MAMP/htdocs/.
 - Windows C:/MAMP/htdocs/
(default): /Applications/MAMP/htdocs
 - Mac (default): /
 - Create a new PHP file “index.php” in folder “demo”.
 - Add the following code in “index.php”:

```
1 <?php
2
3 $input_utterance = 'I failed my exam';
4
5 $witRoot = "https://api.wit.ai/message?";
6 $witVersion = '20200804';
7
8 echo "Post:" . "<br>" . "$input_utterance" . "<br>";
9
10 $witURL = $witRoot . "v=" . $witVersion . "&q=" . urlencode($input_utterance);
11
12 $ch = curl_init();
13 $header = array();
14 $header[] = 'Authorization: Bearer ME5EURTBKCIIC2JF4LVIBWYX2P4FB2AY'; //
15
16 curl_setopt($ch, CURLOPT_URL, $witURL);
17 curl_setopt($ch, CURLOPT_HTTPHEADER, $header);
18 curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
19
20 $server_output = curl_exec($ch);
21 curl_close($ch);
22 echo "<br>";
23 echo "Response:";
24 $server_decoded_rsp = json_decode($server_output)->entities->{"issues:issues"};
25 $response = "";
26 for ($i = 0; $i < count($server_decoded_rsp); $i++){
27     $keyword = $server_decoded_rsp[$i]->value;
28     $con_db = mysqli_connect("localhost", "root", "root", "retrieval_db");
29     if (mysqli_connect_errno($con_db)) {
30         echo "Failed to connect to MySQL:" . mysqli_connect_error();
31     }
32     $sql_command = "SELECT answer FROM response WHERE keyword = '{$keyword}'";
33     $result = mysqli_query($con_db, $sql_command);
34     $num_rows = mysqli_num_rows($result);
35     if ($num_rows > 0) {
36         $row = mysqli_fetch_array($result);
37         $answer = $row[0];
38         echo "<br>" . $answer;
39     } else {
40         echo "failed";
41     }
42     mysqli_close($con_db);
43 }
44 ?>
```

3. PHP access Mysql

- Step 2:
 - Click “Preferences” button on MAMP to get your **Apache Port** (Mine is 8888)
 - Open a browser and type <http://localhost:8888/demo/>, then you will see the following result.



Post:
I failed my exam

Response:
Ah, Exams. Even though exams seem so important, your entire future doesn't depend on them. Don't give a test the power to define you!

Assignment Task

- Modify index.php so that it can accept what user types rather than what is currently shown in index.php where we hard coded the user_utterance. You can include an input box so that the system can get whatever the user types and replaces the input_utterance variable in index.php. Here is a link that might be helpful
- <https://stackoverflow.com/questions/13447554/how-to-get-input-field-value-using-php>
- Add relevant entities which allows your app to support students' posts regarding their struggles.
- Add additional entries into retrieval_db so that when wit.ai detects such phrases, your program can return appropriate answers.
- Modify index.php so that if a user keys in phrases that match multiple entities, your program can return answers matching these entities.