

# Section 2 Setting Up Your Environment



**My environment is Windows, Python 3.4 with PyMySQL and Xampp server.**

**You don't need to duplicate this environment but it is an easy way to run an apache server (to serve web pages) and MySQL database on your desktop machine. Xampp runs on Windows, MAC and Linux so you can duplicate this environment on any computer if you wish to use it for this course.**

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**Initial downloads to install (if you don't already have them)**

**Python 3.4: <https://www.python.org/downloads/>**

**Xampp server: <https://www.apachefriends.org/index.html>**

**Edit httpd.conf (/xampp/acpache/conf/httpd.conf)**

**Find: AddHandler cgi-script .cgi .pl .asp**

**Change to: AddHandler cgi-script .cgi .pl .asp .py (and save file)**

**[Note: You can use a different environment if you wish but this is what I'm coding with.]**

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**Install your Python/MySQL Database Adapter PyMySQL**

**pip install PyMySQL**

**(Webpage for reference <https://github.com/PyMySQL/PyMySQL>)**

**[Note: You can use a different adapter if you wish]**

**In case you don't have pip, go to <https://pip.pypa.io/en/latest/installing.html> for installation instructions**

**For more info on pip: <https://pypi.python.org/pypi/pip>**

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**Set up a database in MySQL**

**(MySQL documentation: <http://dev.mysql.com/doc/refman/5.6/en/index.html> )**

**Start xampp server (+ start Apache & MySQL in admin panel) and open your web browser**

**Go to <http://localhost/phpmyadmin/>**

**Create a database called Inventory by clicking on Databases. Just type inventory in the field that says Database Name and click the Create button.**

**Note: Default username/password for all databases is root with no password set.**

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**Set up a working directory in xampp for your project.**

**For my Windows platform, I set it up to be  
c:\xampp\htdocs\inventorysystem**

**and to access files there when wampp is running, the url is  
<http://localhost/inventorysystem/programname.py>**

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**Let's be sure everything is set up correctly by writing a quick program index.py**

```
#!C:\Python34\python.exe  
import pymysql  
import cgi  
print('Content-type: text/html\n')  
print('<html>')  
print('<head><title>Hello World</title></head>')  
print('<body>')  
print('<h2>Hello World.</h2>')  
print('</body>')  
print('</html>')
```