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To host the online book store application locally, you will need the following:

- 1) MySQL
- 2) php5.4 (it is not compatible with php5.5 or above)
- 3) A web server that can run php5.4, such as Apache

### Download and install MySQL

MySQL can be obtained from

<http://www.mysql.com/>

It should work on the latest version for your OS platform

It has been tested to run on the following MySQL server:

```
mysql> SHOW VARIABLES LIKE "%version%";
Connection id:      10230
Current database:   eshop

+-----+-----+
| Variable_name      | Value                                |
+-----+-----+
| innodb_version      | 5.7.11                              |
| protocol_version    | 10                                   |
| slave_type_conversions |                                     |
| tls_version         | TLSv1,TLSv1.1                      |
| version             | 5.7.11-log                          |
| version_comment     | MySQL Community Server (GPL)       |
| version_compile_machine | x86_64                             |
| version_compile_os   | Win64                              |
+-----+-----+
```

If you are using Windows OS, the installation of MySQL should be straight forward. The easiest way would be to follow the installation wizard and just accept default settings.

You will need to install MySQL Server as the bare minimum, but recommend installing MySQL Notifier and the Connectors as well.

Follow the official installation instruction found here if you are unsure.

<http://dev.mysql.com/doc/refman/5.7/en/windows-installation.html>



Once the installation is completed, if you have installed MySQL Notifier, make sure the server is running using MySQL Notifier



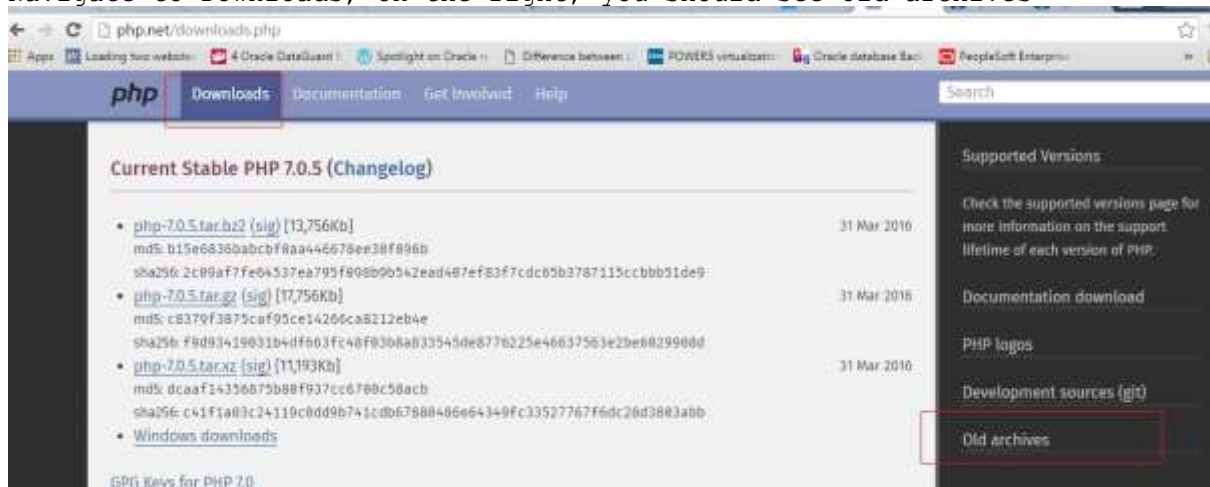
If you see it is monitoring 1 services, right click on it and see "localhost (Online)" then the DB server is running.

### Download and install php5.4

Download php5.4 from:

<http://php.net/>

Navigate to Downloads, on the right, you should see Old archives



Scroll down to 5.4.45, download the one suitable for your OS



If you are using Windows, click Windows 5.4.45 binaries and source link, and get the VC9 x86 Thread Safe version



Get the zip version. Unzip to a directory of your choice. The directory name should have no space and avoid using '-'

If you are not too fuss about the path, is it recommended to unzip to:

C:\app\php5\_4x32

This is the path used by the example in this guide.

## Download and install Apache

You must choose a web server that is capable of the php5.4 version you downloaded in Step 2) above.

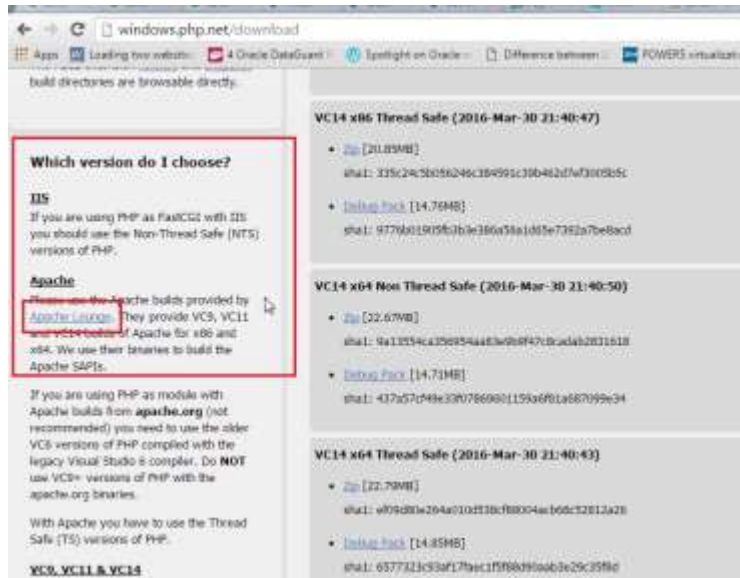
The online application was developed and testing using Apache on Windows OS.

The following assume you are using Window OS and want to use Apache:

If you are using Window OS as well, then go to:

<http://windows.php.net/download>

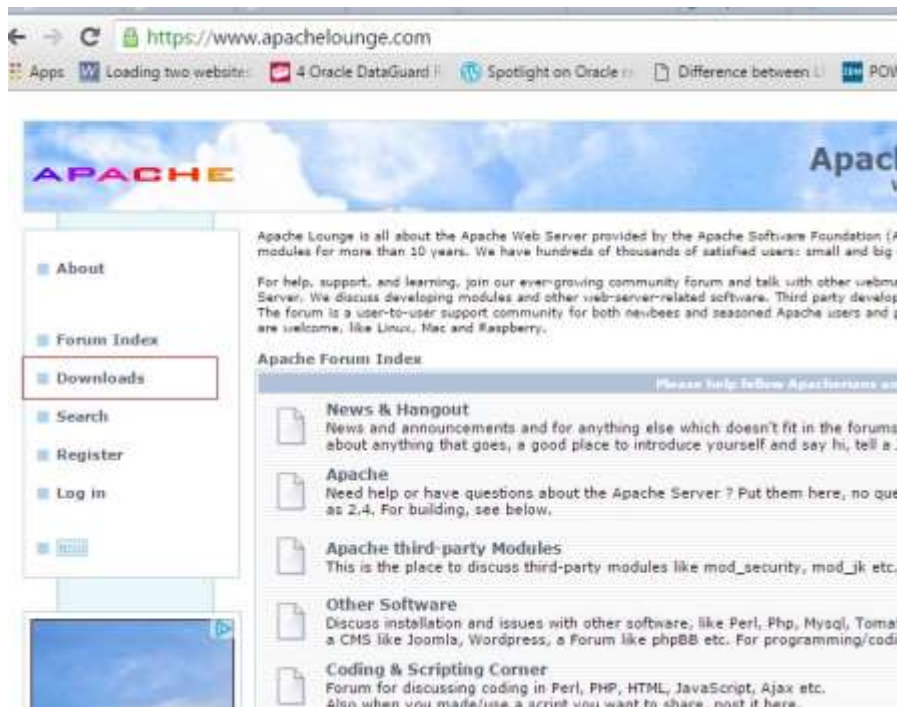
Scroll down a little, and you will see on the left



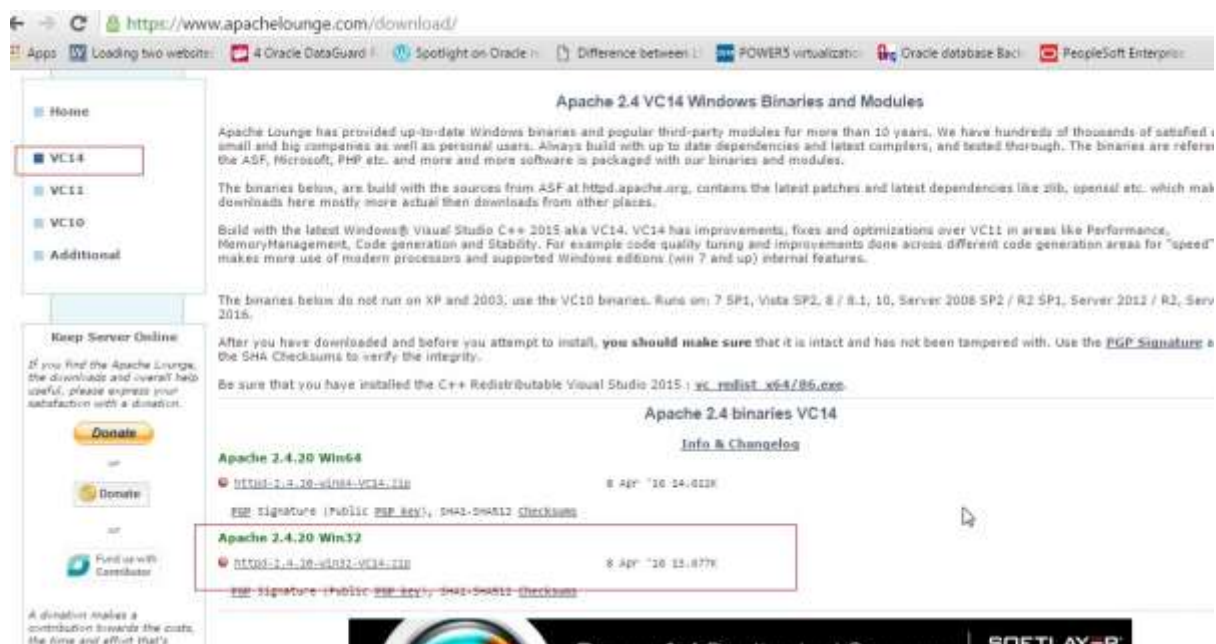
If you do see the above link, go directly to:

<https://www.apachelounge.com/>, or google for 'apachelounge'

Navigate to Downloads



Download the Apache 2.4.XX VC14 for Win32 (note it should match the 32 bit version of php5.4 you downloaded in step2, if you have downloaded 64bit php5.4 in step2, then you should get Win64 version of Apache. Win32 Apache will work on 64bit OS)

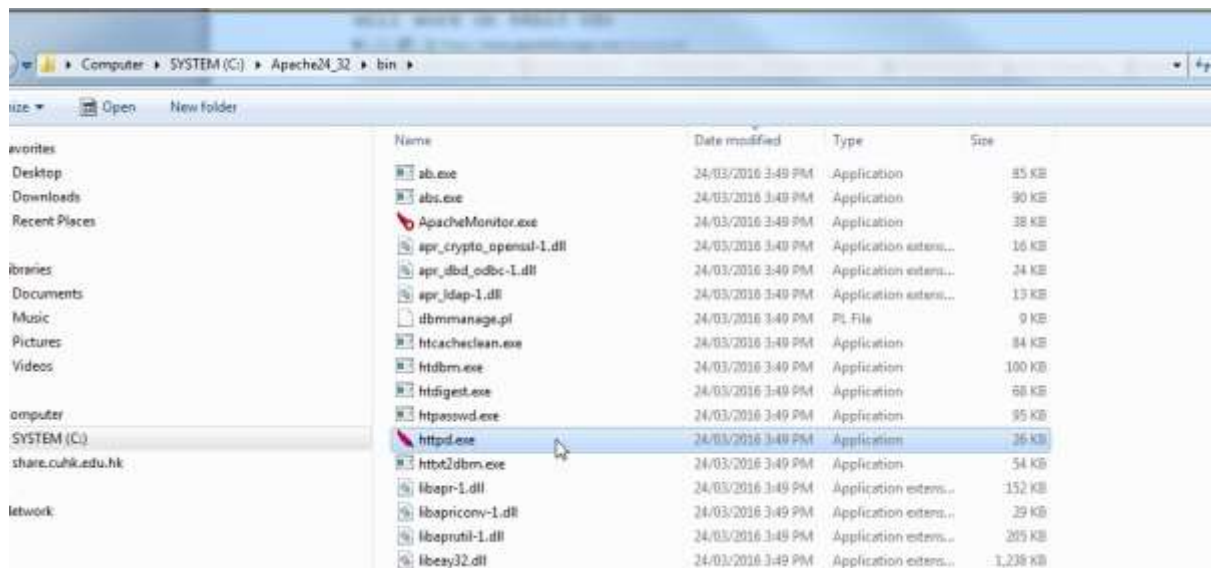


Unzip the file to a directory of your choice.  
If you are not too fuss about the path, is it recommended to unzip to:

C:\Apache24\_32

This is the path used by the example in this guide.

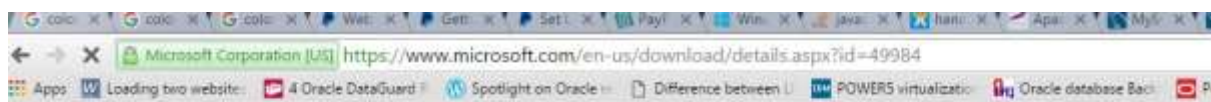
After you have extracted the zip, try to run start Apache by double clicking \$APACHE\_HOME/bin/httpd.exe



If you see an error message saying missing some kind of DLL, mostly like you will need to install Visual C++ Redistributable for Visual Studio 2015, as it is described in the ReadMe inside the zip file of the Apache you downloaded.

Download and install from

<https://www.microsoft.com/en-us/download/details.aspx?id=49984>



## Visual C++ Redistributable for Visual Studio 2015 Update 1



This update is the latest in a cumulative series of feature additions and bug fixes for Visual Studio 2015.



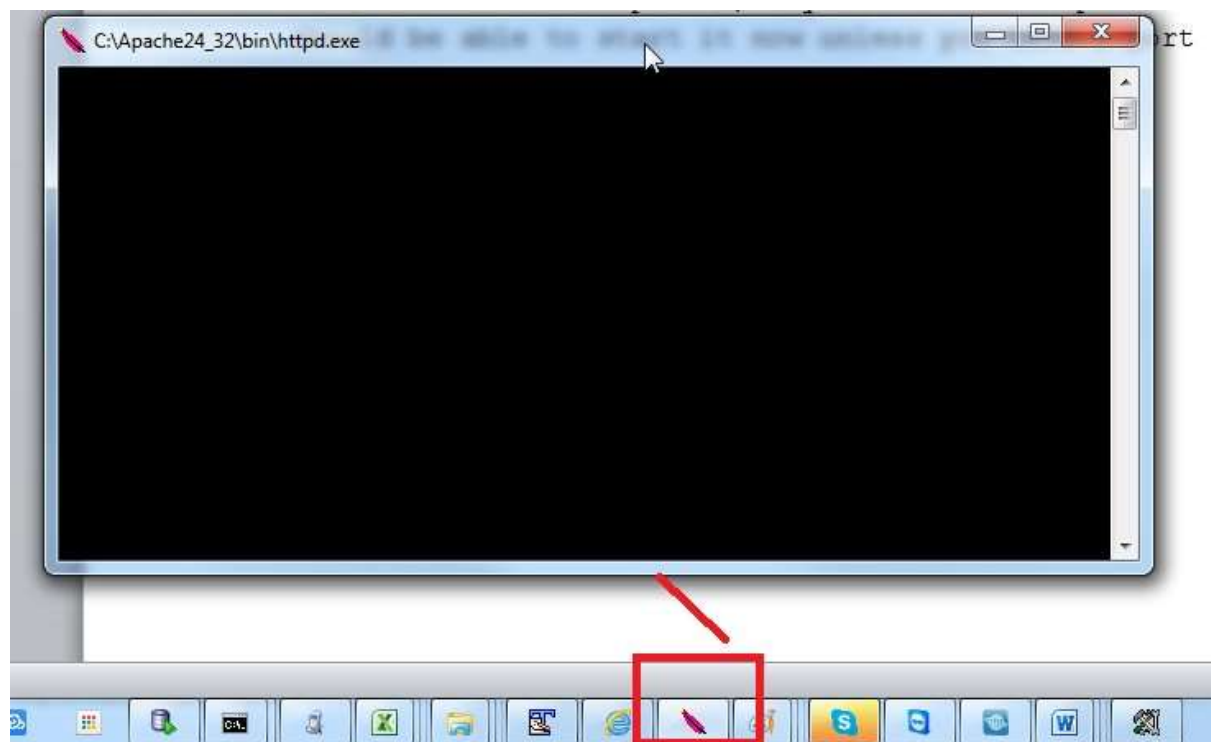
Be sure to choose the x86 version, the one that matches the Apache you downloaded



Accept default installation of VC\_redist.x86.exe.

After install is completed, try to start the Apache server again. You should be able to start it now unless you have a port conflict.

If you are able to start it, then just close the Apache window to shut it down again.



If you are not able to start it and is due the port conflict then we can address that in the next step.

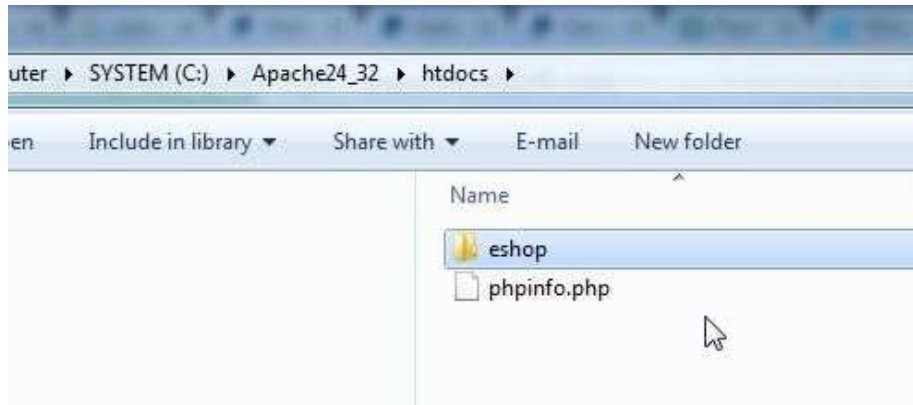


### Setting up the online book store application to run

Once you have MySQL server running, php5.4 downloaded and unzipped, Apache downloaded and unzipped, unzip the eshop.zip to

```
$APACHE_HOME/htdocs
```

So you can see the following directory structure



Open a command prompt window cd  
to \$MYSQL\_HOME/bin

```
C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql -u root -p
Enter password: booklovers ← provide your password
Welcome to the MySQL monitor.  Commands end
or
Your MySQL connection id is 10782
Server version: 5.7.11-log MySQL Community S
(GPL)

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rights reserved.

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its affiliates. Other names may be trademark

Type 'help;' or '\h' for help. Type '\
statement.

mysql> create database eshop;
Query OK, 1 row affected (0.15 sec)

mysql> exit
Bye
```

Then run this command:

```
mysql -h localhost -u root -D eshop -p < C:\Apache24_32\htdocs\eshop\database.sql
```

Substitute for the correct path if you have installed Apache to a different directory

```
C:\Program Files\MySQL\MySQL Server 5.7\bin>
C:\Program Files\MySQL\MySQL Server 5.7\bin> mysql -h localhost -u root -D
eshop -p < C:\Apache24_32\htdocs\eshop\database.sql
Enter password: booklovers

C:\Program Files\MySQL\MySQL Server 5.7\bin> mysql -u root -p
Enter password: booklovers
Welcome to the MySQL monitor.  Commands end with; or \g
Your MySQL connection id is 10784
Server version: 5.7.11-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.

mysql> use eshop2
Database changed
mysql> show tables;
+-----+
| Tables_in_eshop2 |
+-----+
| admin_acct_tbl   |
| backup_trn_tbl   |
| country_tbl      |
| orders_tbl       |
| prod_category_tbl |
| prod_price_tbl   |
| product_tbl      |
| shop_cart_tbl    |
| vendor_tbl       |
+-----+
9 rows in set (0.06 sec)

mysql> select * from admin_acct_tbl;
+-----+-----+-----+-----+
| row_id | adm_username | adm_password | adm_email |
+-----+-----+-----+-----+
|      1 | admin       | abcd1234     | email@email.com |
+-----+-----+-----+-----+
1 row in set (0.03 sec)
mysql> select username from vendor_tbl;
+-----+
| username |
+-----+
| booklovers |
```

```
+-----+
1 row in set (0.00 sec)

mysql>
```

Rename the httpd.conf file in c:\Apache24\_32\conf\ to httpd.conf.backup  
Copy the C:\Apache24\_32\htdocs\eshop\httpd.conf to c:\Apache24\_32\conf\

If you have used recommended path of C:\Apache24\_32 and c:\app\php5\_4x32,  
then you don't have to modify this file.  
If you have used a different folder(s) then edit the  
C:\Apache24\_32\htdocs\eshop\httpd.conf file  
Global replace "c:/app/php5\_4x32" with your php5.4 folder (use / for path)  
Global replace "c:/apache24\_32" with your Apache folder (use / for path)

If your local computer's port 8080 is already occupied by another service,  
you have to update C:\Apache24\_32\htdocs\eshop\httpd.conf file  
Global replace "Listen 8080" with "Listen XXXX" where XXXX is your desired  
port.

Modify the https port  
Edit the C:\Apache24\_32\conf\extra\httpd-ssl.conf  
Global replace "Listen 443" with "Listen XXXX" where XXXX is your desired  
port, suggest to use 8443

Note, you have to rebound the server if port is changed.

Rename the php.ini file in C:\app\php5\_4x32\ to php.ini.backup, if any.

Copy the C:\Apache24\_32\htdocs\eshop\php.ini to C:\app\php5\_4x32\php.ini

If you have used recommended path of C:\Apache24\_32 and c:\app\php5\_4x32,  
then you don't have to modify this file.  
If you have used a different folder(s) then edit the  
C:\app\php5\_4x32\php.ini file  
Global replace "c:/app/php5\_4x32" with your php5.4 folder (use / for path)

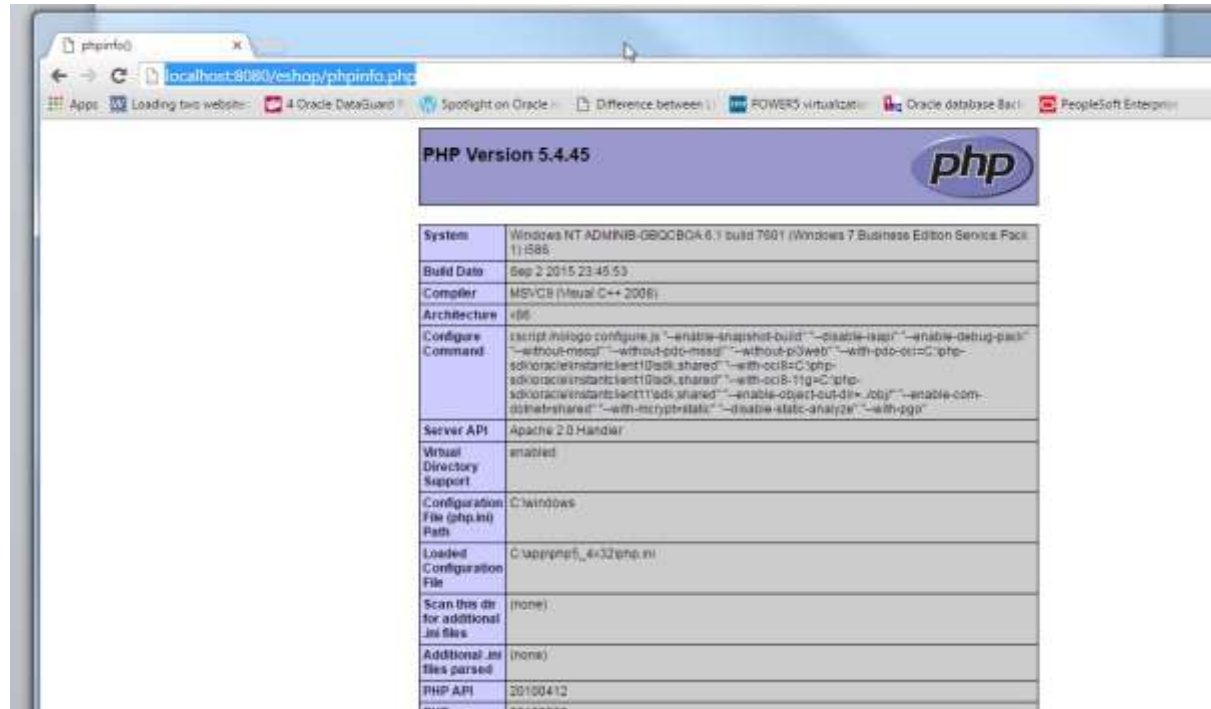
Now you should be able to start the Apache server without any fatal errors.

## Testing php5

If php5 and Apache setup is done correct in the previous step, and Apache is successfully started,

Then open a browser and goto this URL, (assume you are using 8080 port)

<http://localhost:8080/eshop/phpinfo.php>



PHP Version 5.4.45	
System	Windows NT ADMINB-GBQCBGA 6.1 build 7601 (Windows 7 Business Edition Service Pack 1) i586
Build Date	Sep 2 2015 23:45:53
Compiler	MSVC9 (Visual C++ 2008)
Architecture	i586
Configure Command	./configure --enable-snapshot-build --enable-ldap --enable-debug-pack --without-mysql --without-pdo-mysql --without-pdoweb --with-pdo-oci=C:\php-sd\oracleinstantclient10sdk\shared --with-oci8=C:\php-sd\oracleinstantclient10sdk\shared --with-oci8-11g=C:\php-sd\oracleinstantclient11gdk\shared --enable-object-out-dir=.obj --enable-com-dlshreared --with-mcryptstatic --disable-static-analyze --with-pgsql
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\windows
Loaded Configuration File	C:\app\php_5432\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20100412
OS	Windows

If you can see the above then php5 is working

## Testing the booklovers online book store

Open the following URL on a browser

<http://localhost:8080/eshop/siteadmin/adminlogin.php>



If you see this page, and can login with the default site admin account of:  
admin / abcd1234

then DB connection is good, and the booklovers online book store  
application should be running

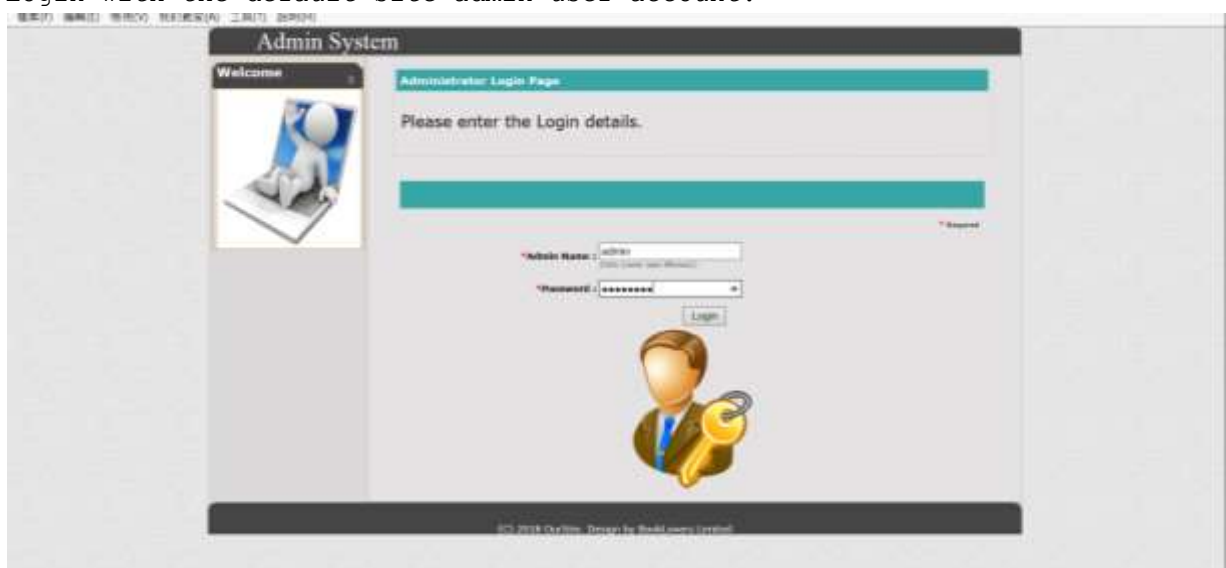
## Using the Site Administration Module

The site administration URL is:

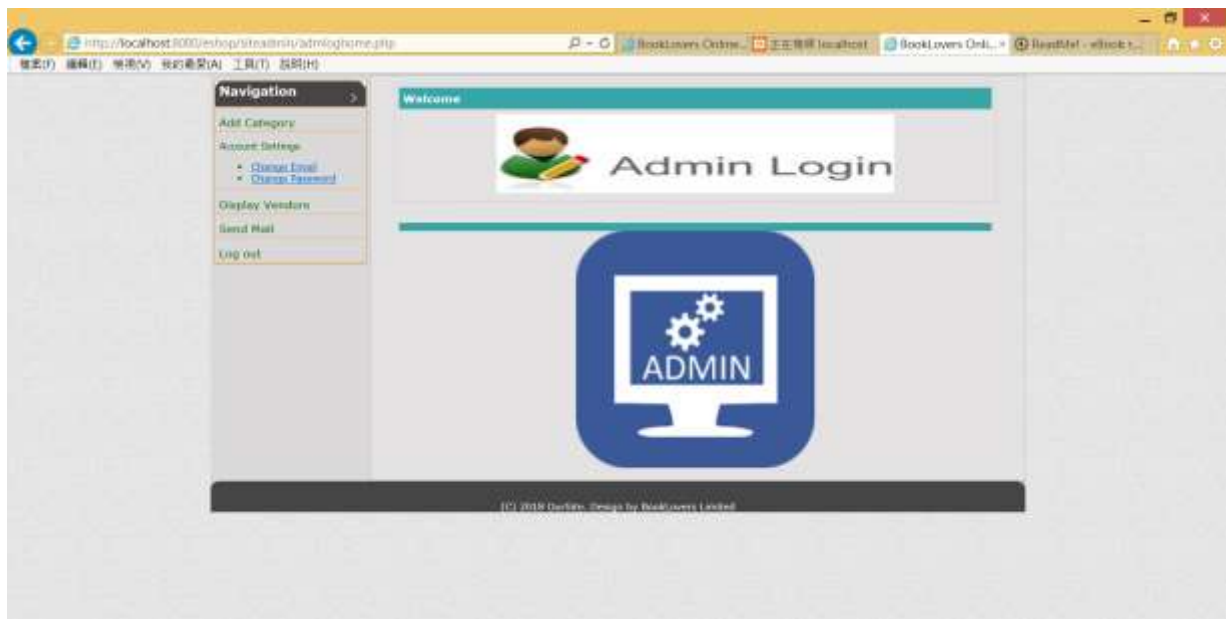
<http://localhost:8080/eshop/siteadmin/adminlogin.php>

The default site admin username/password is: admin/abcd1234

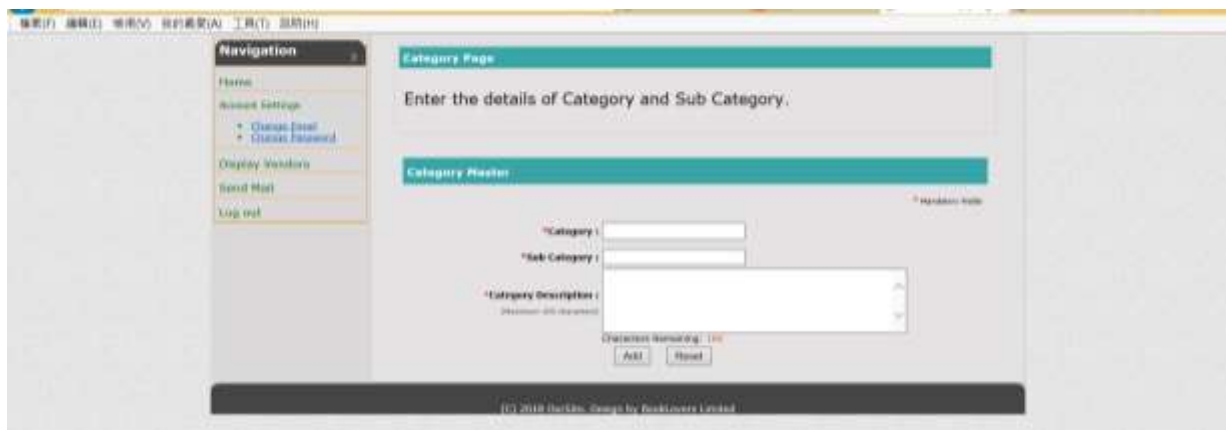
Login with the default site admin user account.



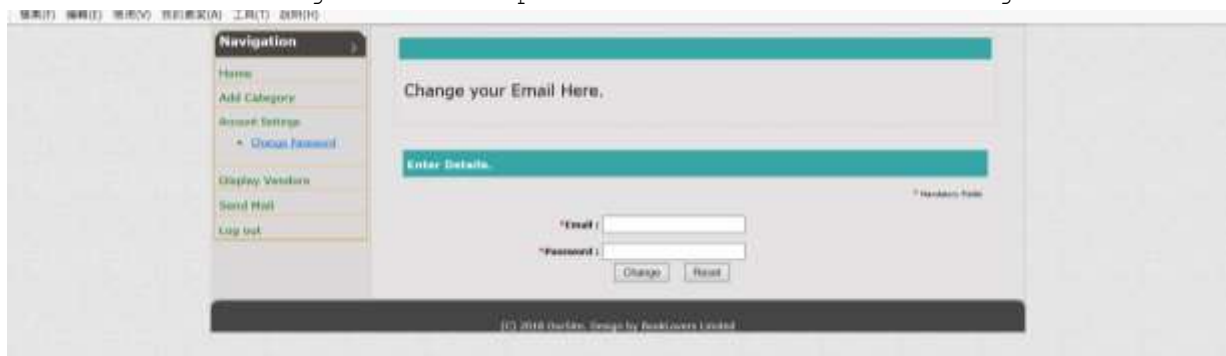
You will be directed to this page.



Use the 'Add Category' function to add new product categories. A product category is for Store Owners to select when adding a new product into their online store.



Site Admin can change email and password under 'Account Settings'





Site Admin can view all the registered Vendor (Store Owners that uses this online store platform) using the 'Display Vendors' function



### Using the Vendor Administration Module

The site administration URL is:

<http://localhost:8080/eshop/booklovers/index.php>

You can click the register on the customer website to register become Vendor

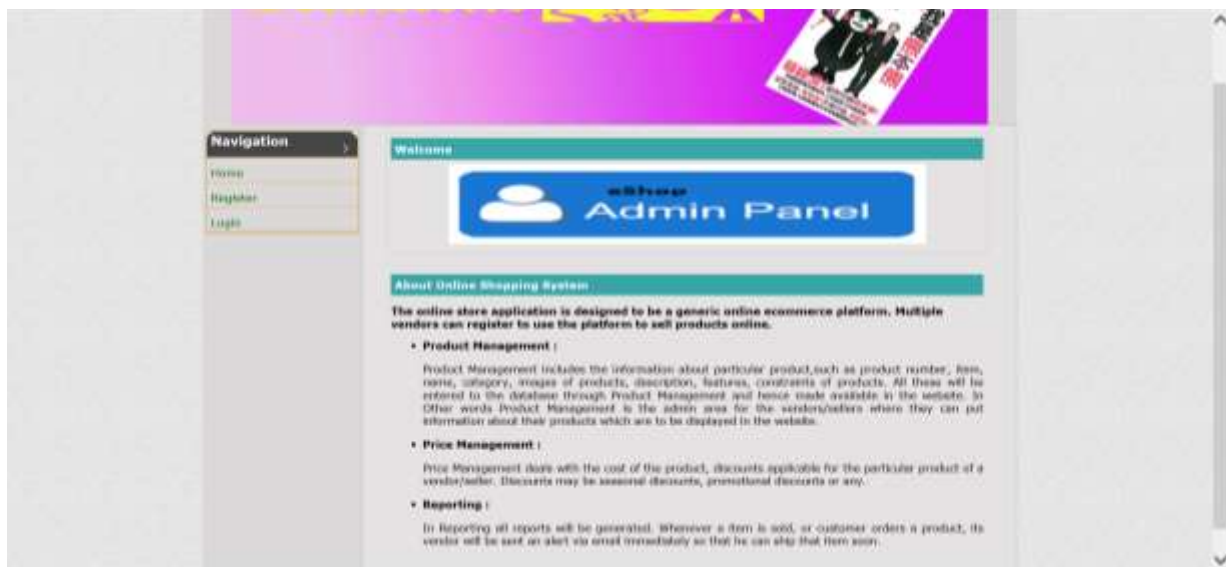


or

<http://localhost:8080/eshop/index.php>

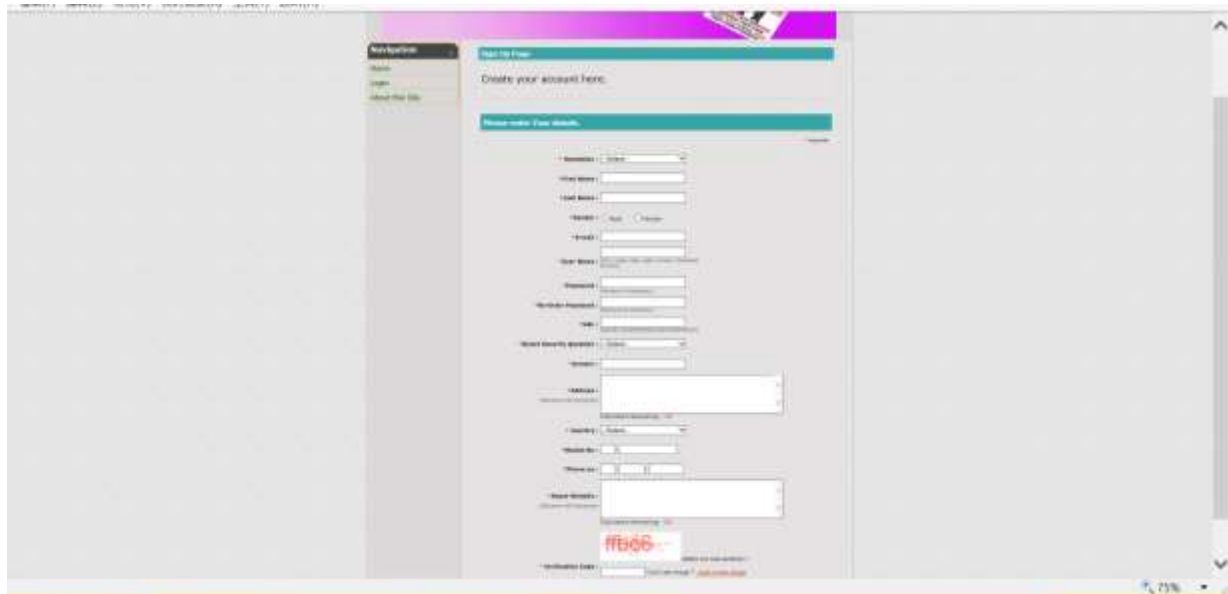


Vendors can learnt about this online platform using the 'About the site' link



New Vendors can use the 'Register' function to register for use of the online store platform





Already registered Vendor can login and manage their store inventory using the 'Login' link

The Booklovers vendor is registered in the system as:

Booklovers/abcd1234



This is the admin homepage after vendor has logged in.



Vendor(store owner ) can use the 'Add Product' function to add new product to their store. Note the store must have at least 1 product before customers can start browsing.

Vendor(store owner ) can use the 'Price Management' function to assign a price to a product. Note the product must be assigned a price before customer can add it to their cart.

Please enter the details of Price products here.

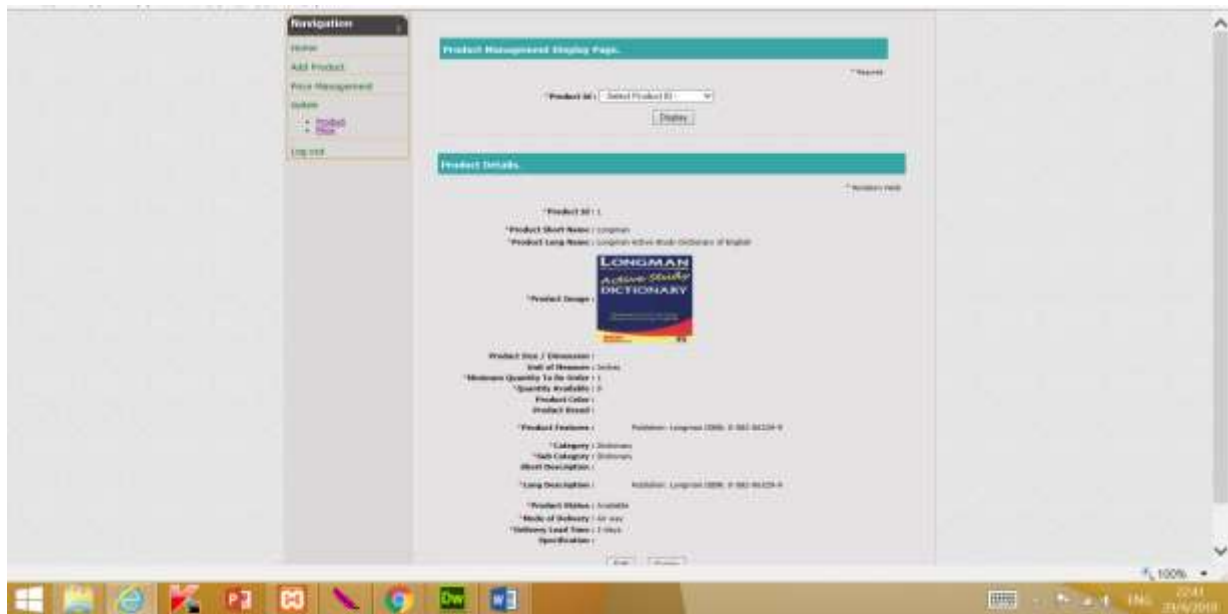
**\* Mandatory Fields**



The screenshot shows a web form with the following elements:

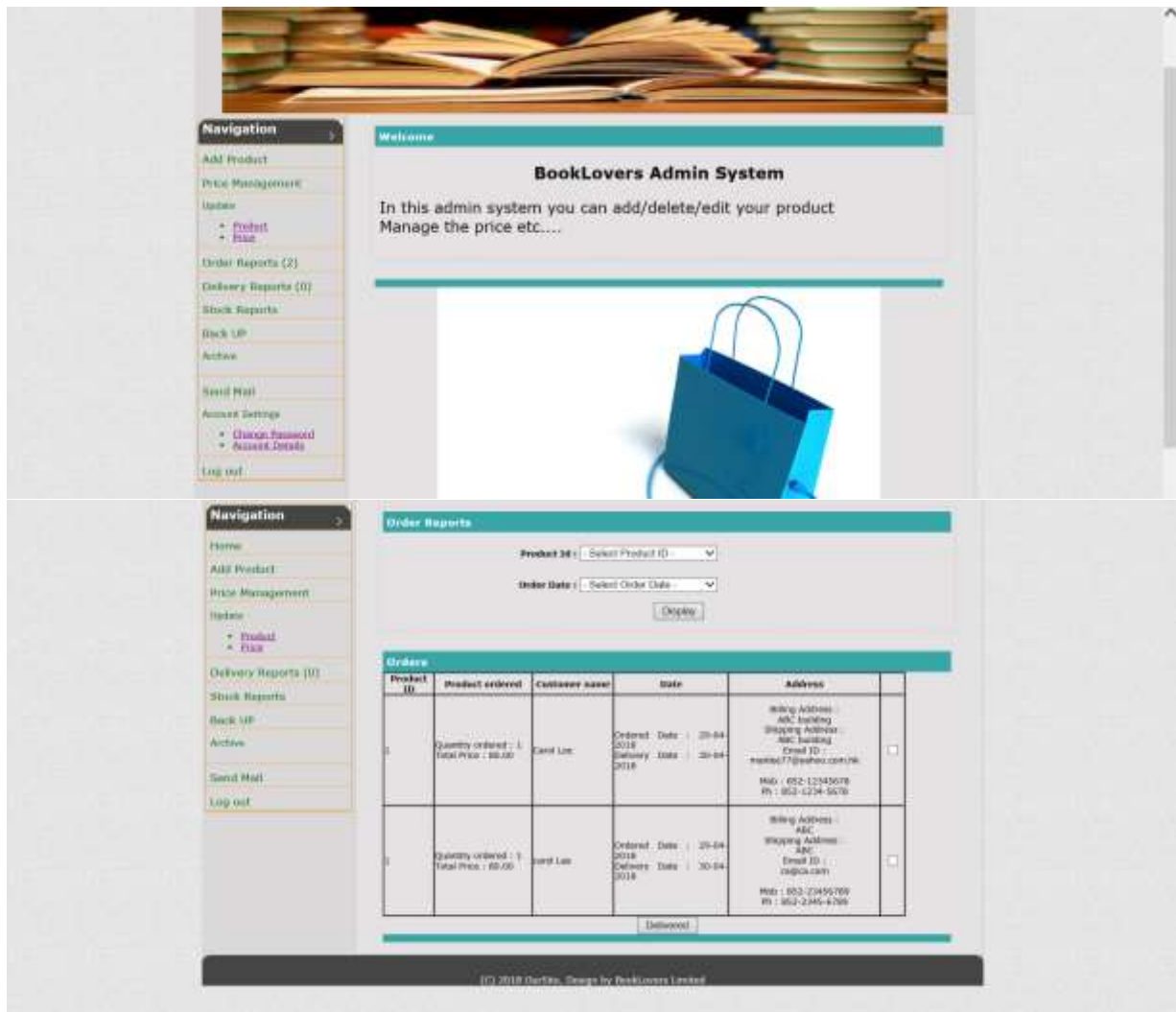
- Product Id:** A dropdown menu with "Select Product ID" as the placeholder text.
- Actual Price Of Product:** A text input field.
- Discount:** Radio buttons for "Yes" and "No".
- Verification Code:** A text input field containing the CAPTCHA code "b11d2".
- Buttons:** "Submit" and "Reset" buttons at the bottom.
- Text:** "Enter the code as shown in the image" below the CAPTCHA.
- Link:** "Can't see image? [Load a new image](#)" next to the CAPTCHA.
- Footer:** "© 2014 All Rights Reserved" at the bottom.

Vendor(store owner ) can use the 'Update' function to update their product and pricing.



Vendor(store owner ) can use the Order, Delivery and Stock Report options to help management their store.

Password and account information can be change update the Account Setting section.



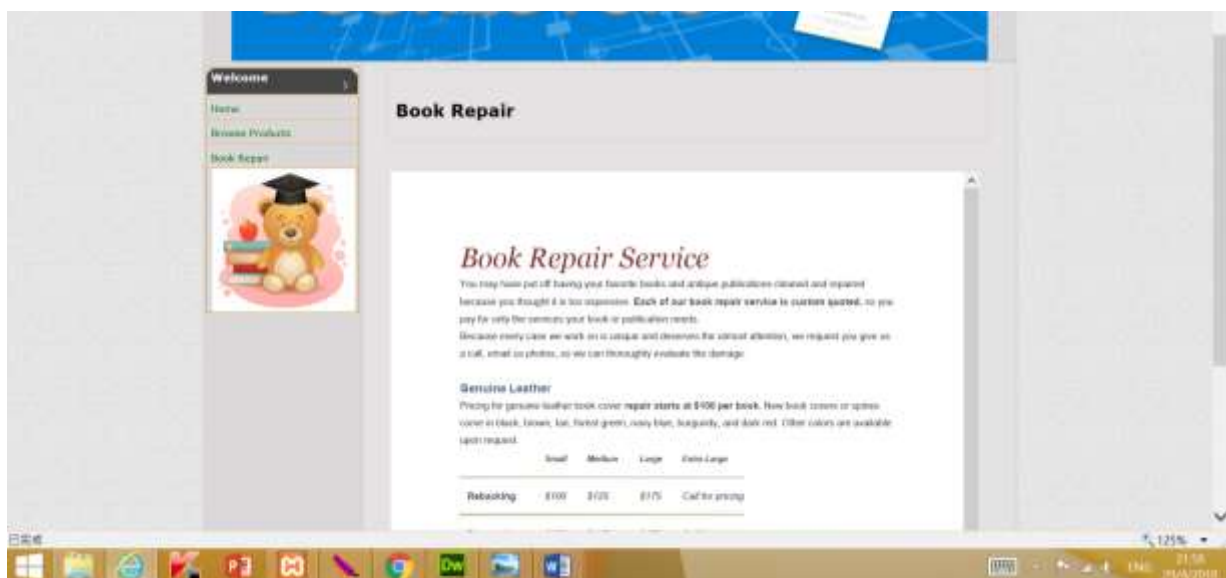
### Using the Online Store as a customer

<http://localhost:8080/eshop/booklovers/index.php>

This is the homepage of the BookLovers online store. This is where customers can learn about BookLovers Limited and their services and browse for their products.



BookLovers offers a Book Repair Service



Customers can start shopping for BookLover's products by clicking the 'Browse Products' link

Check the product, and select desired quantity to add to the Shopping Cart.



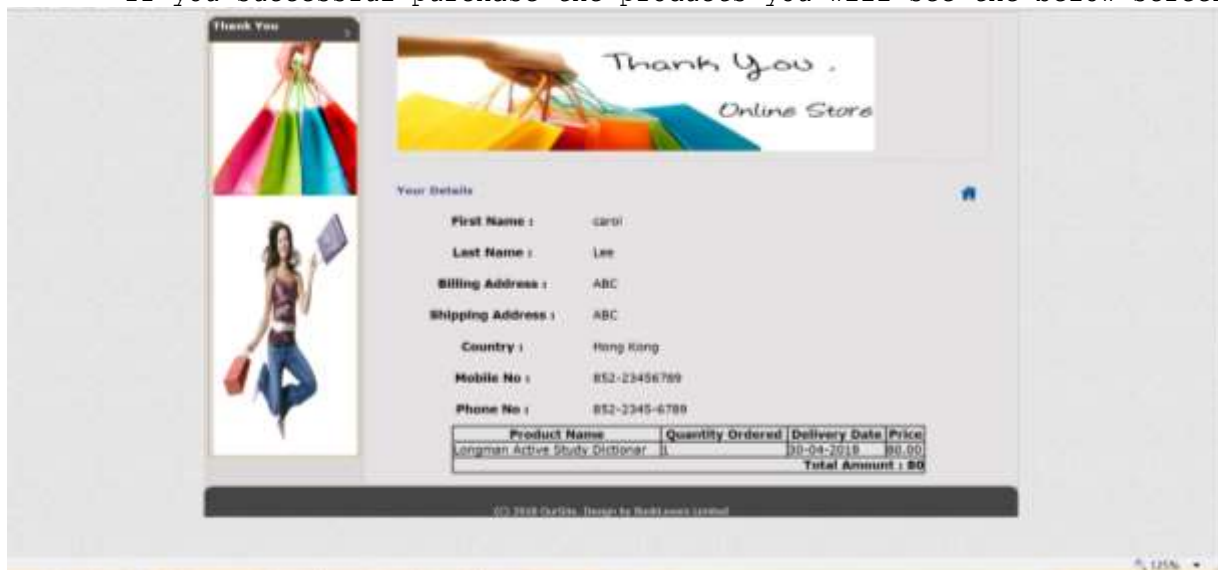
Click on the Shopping Cart to view cart content and check out items.



The store is integrated with Paypal to handle payment transactions.



If you successful purchase the products you will see the below screen



We had hosted our website to

<https://manlee77.000webhostapp.com/index.php> (Customer Shopping)

<https://manlee77.000webhostapp.com/index.php> (Vendor Admin)

<https://manlee77.000webhostapp.com/siteadmin/adminlogin.php> (Site Admin)

However the host service has some limitation. Therefore we recommend use the localhost to launch our website.