

## **CHAPTER V**

### **SYSTEM IMPEMETATION**

#### **5.1 Introduction**

This chapter is about the implementation of the system. System implementation is the process of defining how the system should build and ensuring that system is operational and used. It is important to ensure that the system are meets quality standards. The purpose is, to make the system available to a prepared set of users (the deployment), and positioning on-going support and maintenance of the system within the organization. Each of the application modules has its own function and that is why these modules need to do implementation in term of logical design to physical software and hardware.

#### **5.2 System Software Development Environment**

The following are the lists of the tools needed to setup the project.

##### **5.2.1 Sublime Text**

Sublime Text is a text editor tool that you can write your code. It easily browse and open a single file, a whole project, or multiple projects in one window.

### **5.2.2 WAMP Server 3.0**

WAMP Server 3.0 used is automatically installed with Apache, PHP, MySQL, database, PHPMyadmin, and SQLite manager. WAMP refers to a set of free open source applications, combined with Microsoft Windows, which are commonly used in server environments. There is four key elements in WAMP Server: an opening system, databases, Web Server and Web scripting software. WAMP Server 3.0 (64bits) consist Apache 2.2.22, MySQL 5.5.24 and PHP 5.4.3. The combined usage of these programs is called a server stack which is containing Microsoft Windows as operating system, Apache as web server, MySQL handles database components, and PHP as dynamic scripting language.

### **5.2.3 CodeIgniter**

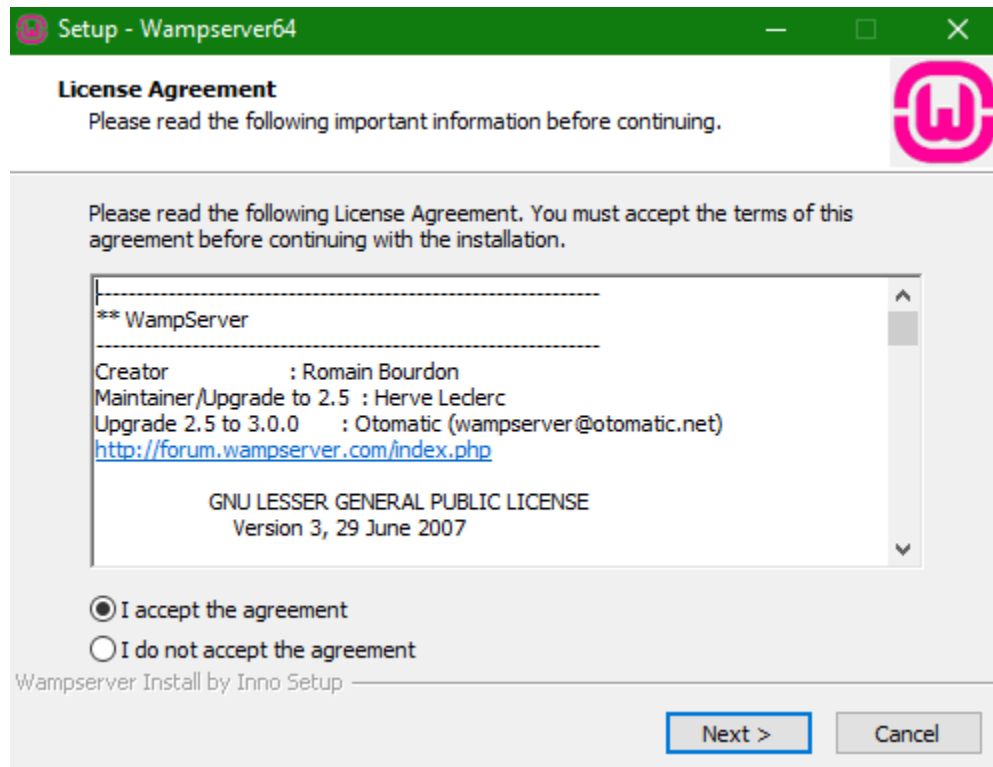
CodeIgniter is a PHP framework for developers who need a simple toolkit to create a web application. The framework is based on concept of MVC which are model, view, and controller. It is better way to separate the application logic from the display.

## **5.3 Software Configuration Management System**

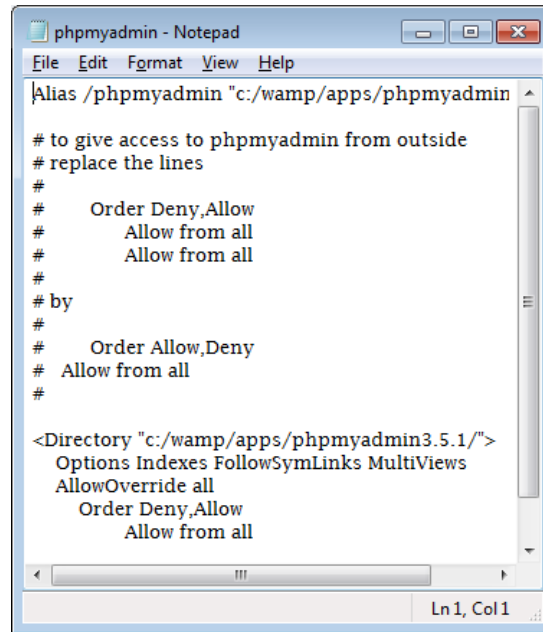
Software configuration need to be managed well. The purpose of software management is to test the whole system and defines the error of misconfiguration, error in codes of both software and hardware.

### **5.3.1 WAMP Server Installation**

1. Download the WAMP Server from <http://www.wampserver.com/en/>
2. Run the installer as shown in figure below.



3. Accept the term and condition and the program will install automatically.
4. Select phpMyAdmin in a small icon that appeared on the windows taskbar. If error 404 displayed, it means that some configuration need to be changed in the WAMP program files installed in C: / directory program.
5. Open WAMP directory (in this case C:/) and go to alias directory open and edit the phpMyAdmin, sqlbuddy, and webgring files.
6. Replace all words "deny" to "allow" in the all 3 files as shown in figure26.

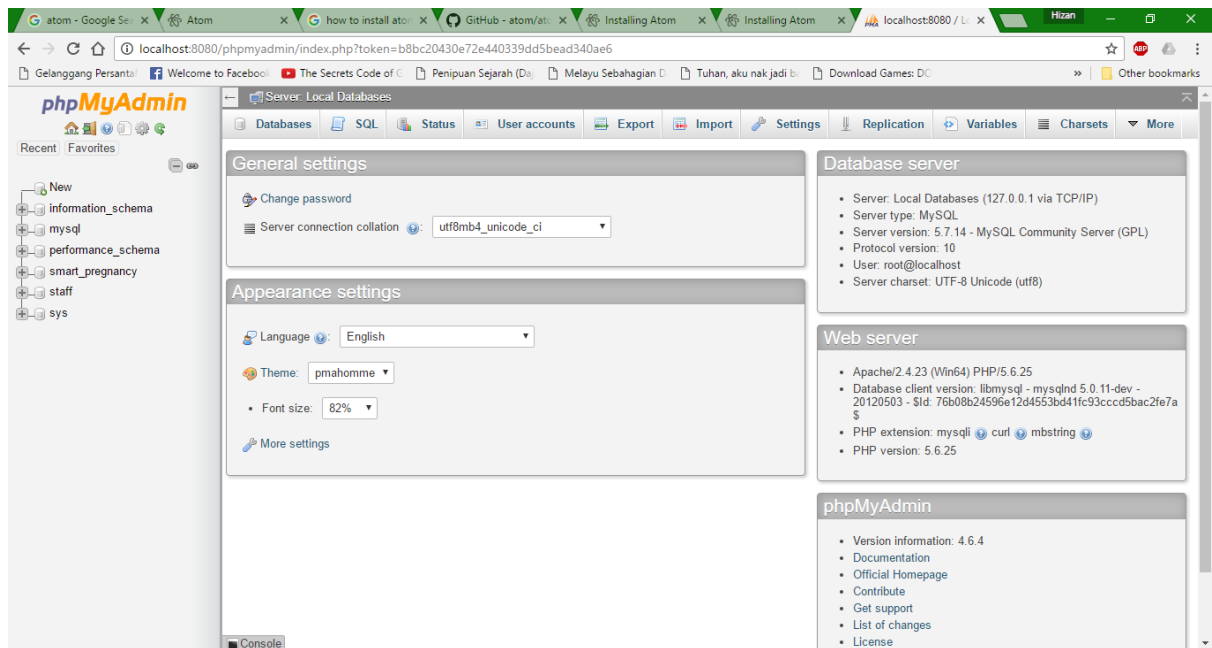


```
phpmyadmin "c:/wamp/apps/phpmyadmin"

# to give access to phpmyadmin from outside
# replace the lines
#
#     Order Deny,Allow
#     Allow from all
#     Allow from all
#
# by
#
#     Order Allow,Deny
#     Allow from all
#

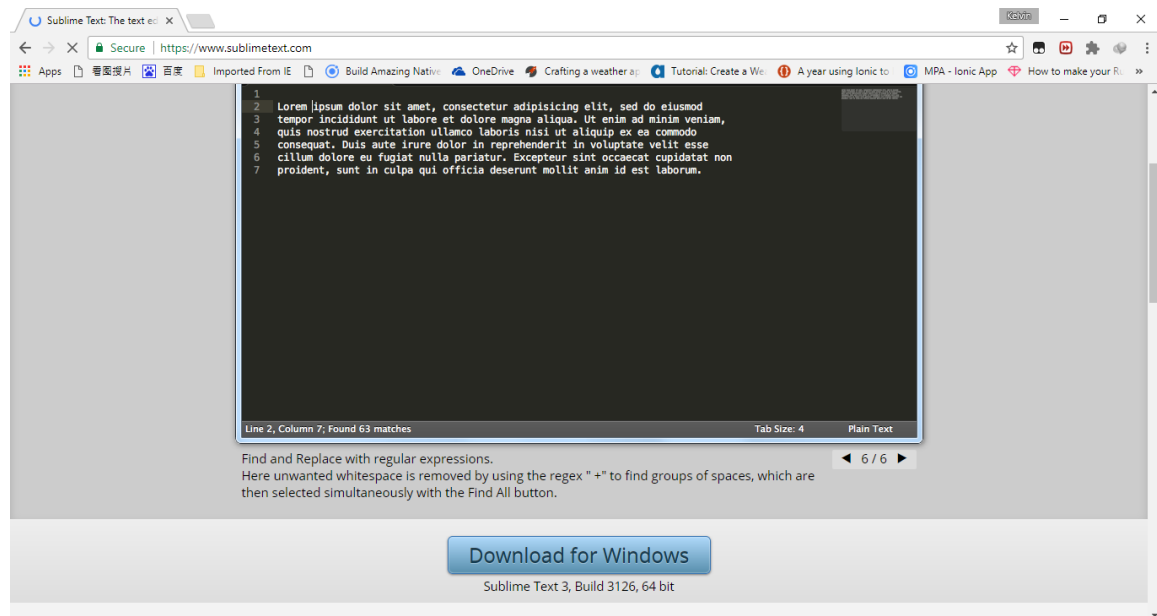
<Directory "c:/wamp/apps/phpmyadmin3.5.1/">
Options Indexes FollowSymLinks MultiViews
AllowOverride all
Order Deny,Allow
Allow from all
```

7. Run the phpMyAdmin to obtain the page as shown below and start creating the database of the project.



### 5.3.2 Sublime Text Installation

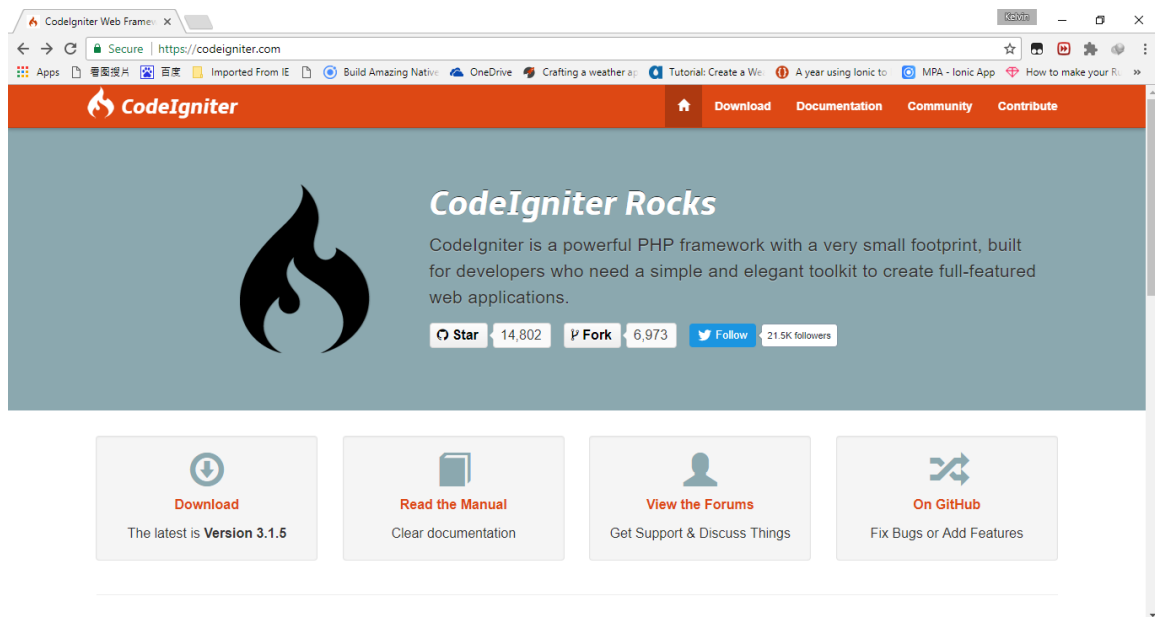
1. Download Sublime Text 3 for free on <https://www.sublimetext.com/> and at the middle of the page you should see a download button as shown here:



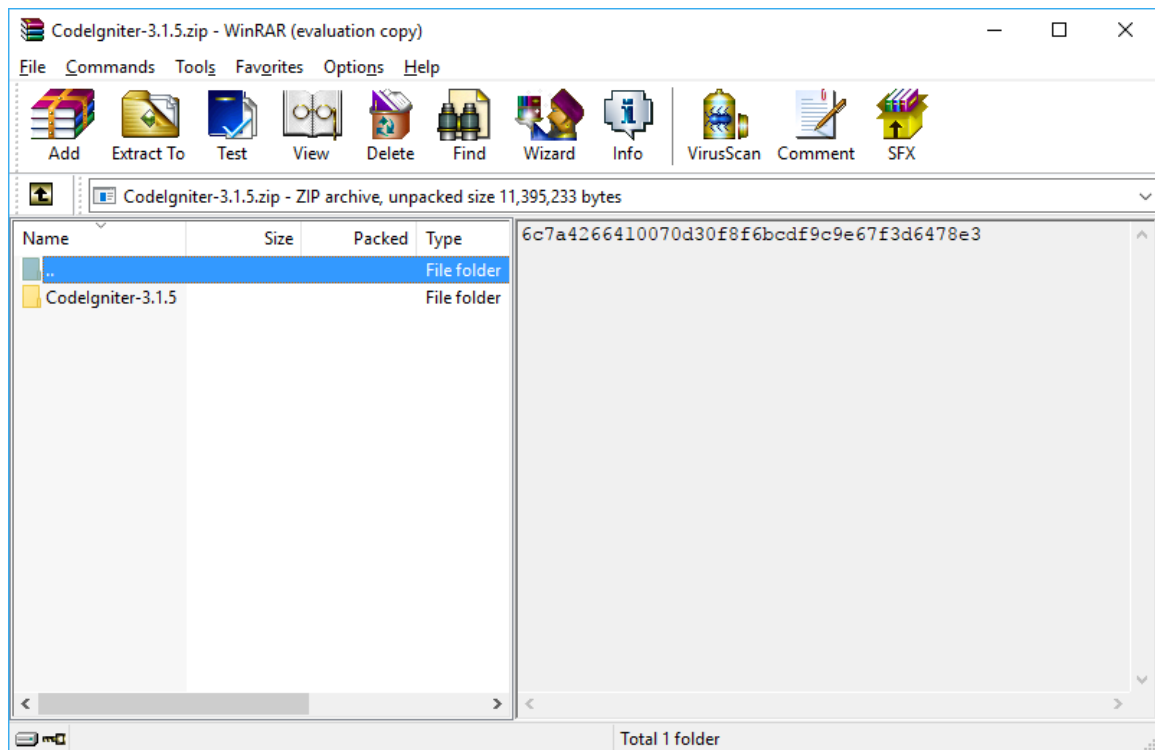
2. Run the setup program and install Sublime Text 3 with default settings.

### 5.3.3 CodeIgniter Installation

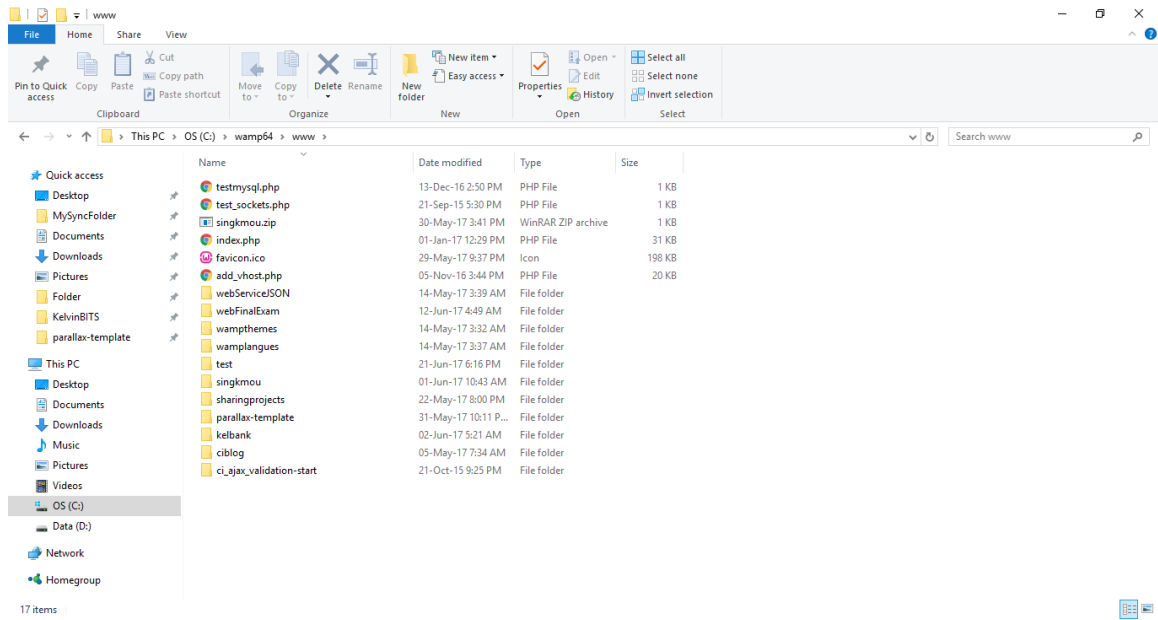
1. Download Codeigniter 3.1.5 on <https://codeigniter.com/> and at the middle of the page you should see a download button as shown here:



2. Unzip and extract the file into Desktop.



3. Copy the file into C:\wamp64\www (default project directory) and rename the folder.



## 5.4 Implementation Status

The following table summarize the implementation status of the process of developing the application.

No	Component	Description	Duration to complete	Software Size
1	Sublime Text 3	Download, install and configure the environment.	1 day	8.06MB
2	Wampserver	Download, install and configure the environment.	1 day	209.33MB
3	CodeIgniter 3	Download, install and configure the environment.	1 day	2.49MB
4	Database creation and design	Create and design the database, and manipulate the data.	30 days	6.84KB
5	Interfaces	Create and design the interfaces of the application.	100 days	47.9KB

## **5.5 Conclusion**

This chapter concludes that the implementation of the system is very important process because it involves in getting the new system to operates properly in its environment including installation, configuration, testing and making necessary changes to the system. The toolkits needed such as Sublime Text, Wampserver and CodeIgniter are needed for developing this project. A project cannot be implemented successfully without the essential tools. The tools can help the developers a lot in managing the project suring the system implementation process.