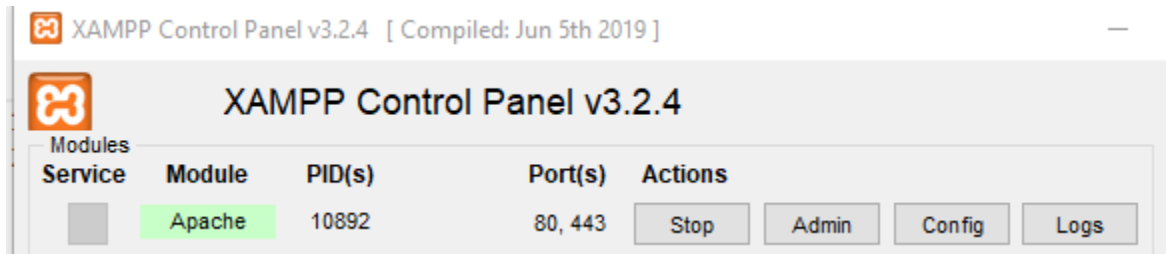


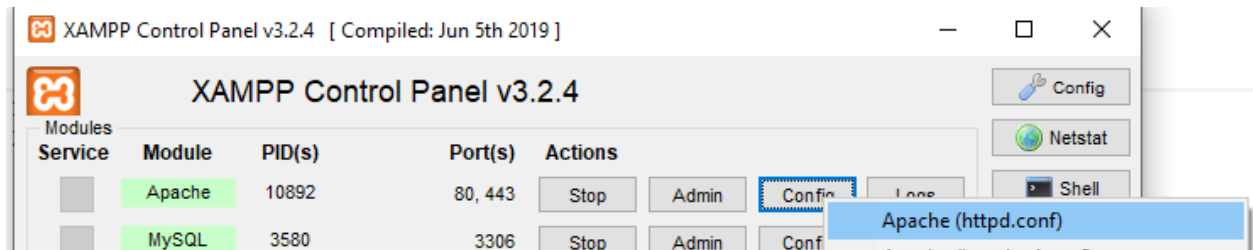
Project installation guide

1. Install XAMPP normally <https://www.apachefriends.org/index.html>
2. Inside C:/xampp/htdocs copy the webapp folder
3. Run XAMPP application
4. Set default XAMPP directory root

Click on Config button on XAMPP GUI



Click on Apache (httpd.conf)

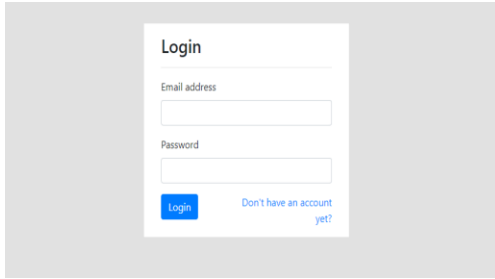


Add and comment these lines as it shows below:

```
#  
# DocumentRoot: The directory out of which you will serve your  
# documents. By default, all requests are taken from this directory, but  
# symbolic links and aliases may be used to point to other locations.  
#  
#DocumentRoot "C:/xampp/htdocs"  
#<Directory "C:/xampp/htdocs">  
DocumentRoot "C:/xampp/htdocs/webapp/public"  
<Directory "C:/xampp/htdocs/webapp/public">
```

Typing localhost on the browser should now redirect to the login page.





4. Install the database in PHPmyAdmin

Type in the browser while XAMMP is running:

<http://localhost/phpmyadmin/>

1. Select the new **database** on the left pane.
2. Click on the **Import** tab in the top center pane.
3. Under the File to **import** section, click Browse and locate the file sensors.sql
4. Click the GO button

Now a database named sensors is installed having the table users inside it

5. Type localhost on the browser bring the login page, either login with:

admin@admin.com

admin123

Or register new account

Alternative for evaluation purposes type: localhost/sensors to view the dashboard without being logged with an account you can register or login using the system function/user command the left of the page on the sidebar.

6. Clicking on the Dashboard button will fetch the latest sensor value gathered from the sensors all other values are updated automatically.
7. Clicking the Analytics button on the sidebar will bring you the bottom of the page where the analytics are located

Additional Notes:

The hardware will be kept running for 30 days after the submission of the project, all values will be live.

Inside CodeIgniter's framework the pages that were used/created were:

webapp/app/controllers/BaseController.php (Default framework controller)

webapp/app/controllers/Users.php (all application backend operations)

webapp/app/Models/UserModel.php (validation helper and password hashing)

webapp/app/Validation/UserRules.php (validation rules)

webapp/app/Views/Template/header.php (The header all page's share)

webapp/app/Views/Template/footer.php (The footer all page's share)

webapp/app/Views/sensors.php (The dashboard)

webapp/app/Views/login.php (Login page)

webapp/app/Views/register.php (Register page)

webapp/app/Views/changeDetails (Update account details)

webapp/public/assets/styles.css (Stylesheet)

webapp/public/assets/scripts.js (JavaScript)

The hardware script can be found in ThingSpeakConnection folder, you can view the code by using the Arduino's IDE or open it with Notepad.