

Guide Document

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Project Physics Virtual Classroom: AsyncSync (Group 51)
by Physics Department
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This document includes:
Requirements
Installation guide
Backup guide
User manual
Additional information

1 Project Documentation

1.1 Installation

1.1.1 Prerequisite

You must be able to access the repository or the code. We are using Drupal8 as our developing environment. Any requirement will be installed if you follow the installation below. Any other requirement for using Drupal8, refer to the following link: <https://www.drupal.org/docs/8/system-requirements>

Note (You have to read this note before doing further actions):

- The whole code for the current project is under "html" folder.
- You must use 'sqlbackup.sql' database file for completing to build the whole website.
- Documents folder is for all the documentation of the project.
- ph-virtual-classroom is the code we worked on. Now, we don't use the code anymore.
- The code in this repository only gives you make a simple drupal website. (in 'html' folder)
- The site can't do any functions without the current server-database. ('sqlbackup.sql.zip')

1.1.2 Basic Program Installation: Drupal and MAMP

You may need to download Drupal8 (if the method I introduce below doesn't work) Drupal8 Download Clone git repository first. Please follow the following instructions (YouTube videos). You don't need to download Drupal from the Drupal website. You will use the 'html' folder as Drupal installer in this repository.

- Install Drupal on MacOS: <https://www.youtube.com/watch?v=pOBArJn-tSQ>
- Install Drupal on Ubuntu18.04: <https://www.youtube.com/watch?v=9SEpG0rOs1w>
- Install Drupal on Windows: <https://www.youtube.com/watch?v=4Gl9s40vldY>

Our current server is running on Ubuntu. This guide does not include the guide for Linux users, so you may need to know how you can access 'MyphpAdmin (We need this later) in your own Linux.

For Windows and MacOS users need to download 'MAMP application to run the server. Download MAMP: <https://www.mamp.info/en/downloads/>

1.1.3 Install Drupal and import Database on your local machine

1. Download MAMP and run MAMP. Then, you should see this program. Then, Click the 'Start Servers. The server is starting now.

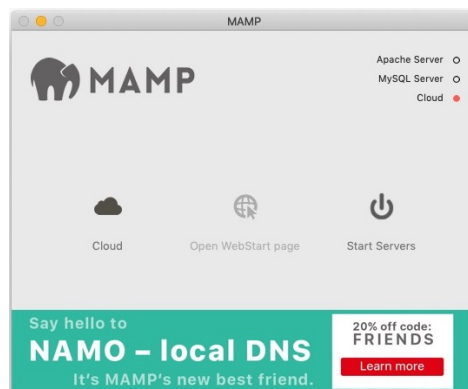


Figure 1: MAMP Application

2. Now you can see this page, then your MAMP application works.

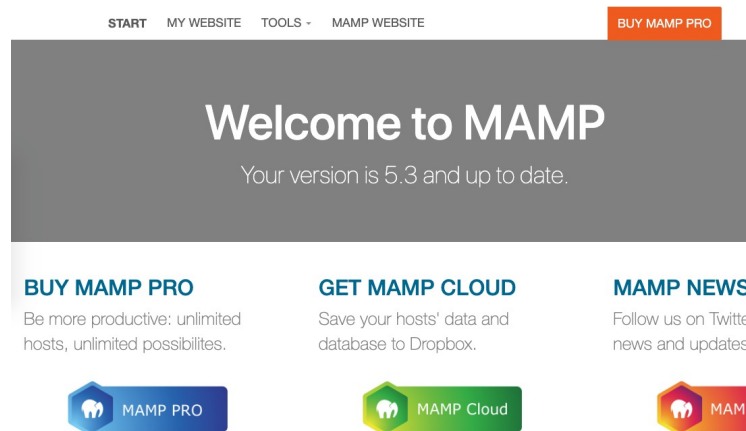


Figure 2: MAMP Page

3. Now, you need to find the folder that will render your code to its server.

- For MacOS, move 'html' from this repository to '/Application/MAMP/htdocs' (if you are using MAMP).
- For Windows, move 'html' from this repository to 'Local Disk/MAMP/htdocs' (if you are using MAMP), and keep following the instruction for MacOS.
- (if) For Ubuntu, locate to the folder 'html' in /var/www/ (if you followed the instruction the above).

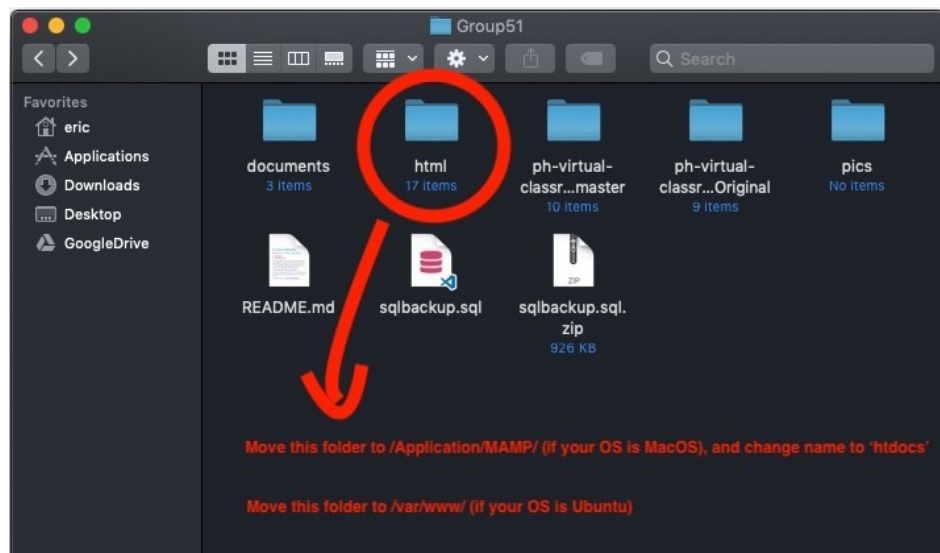


Figure 3: Project File Folder

4. You need to go to your 'PHPMYADMIN. This is where you can find 'phpMyAdmin' by using MAMP (Click 'TOOLS' in the banner, then click 'PHPMYADMIN')

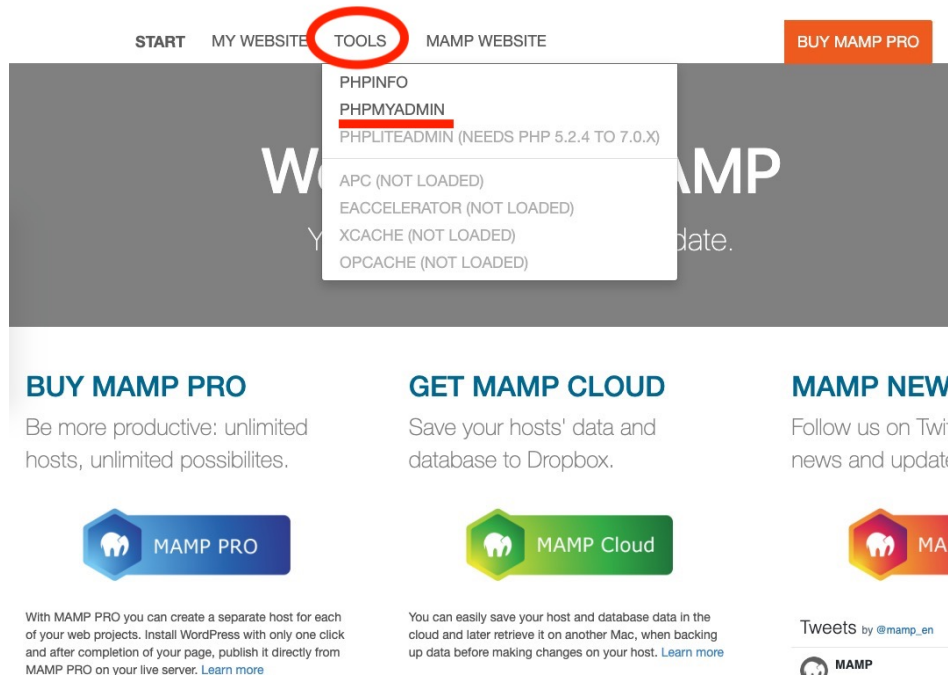


Figure 4: phpMyAdmin on MAMP

5. Now, you need to open 'phpMyAdmin' and create a database. (I named it drupal)

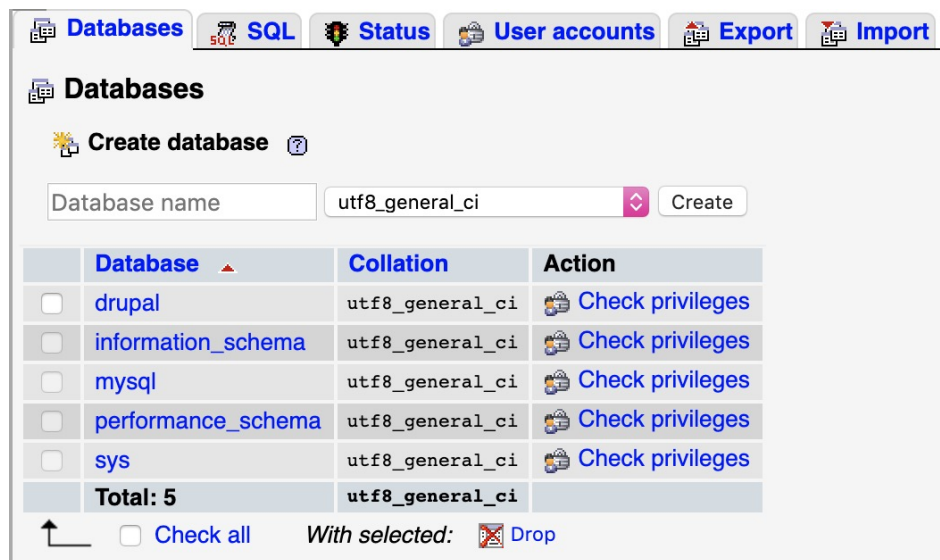


Figure 5: phpMyAdmin

6. Then, click the database and go to 'Import' tab at the top. (I marked in the red square)

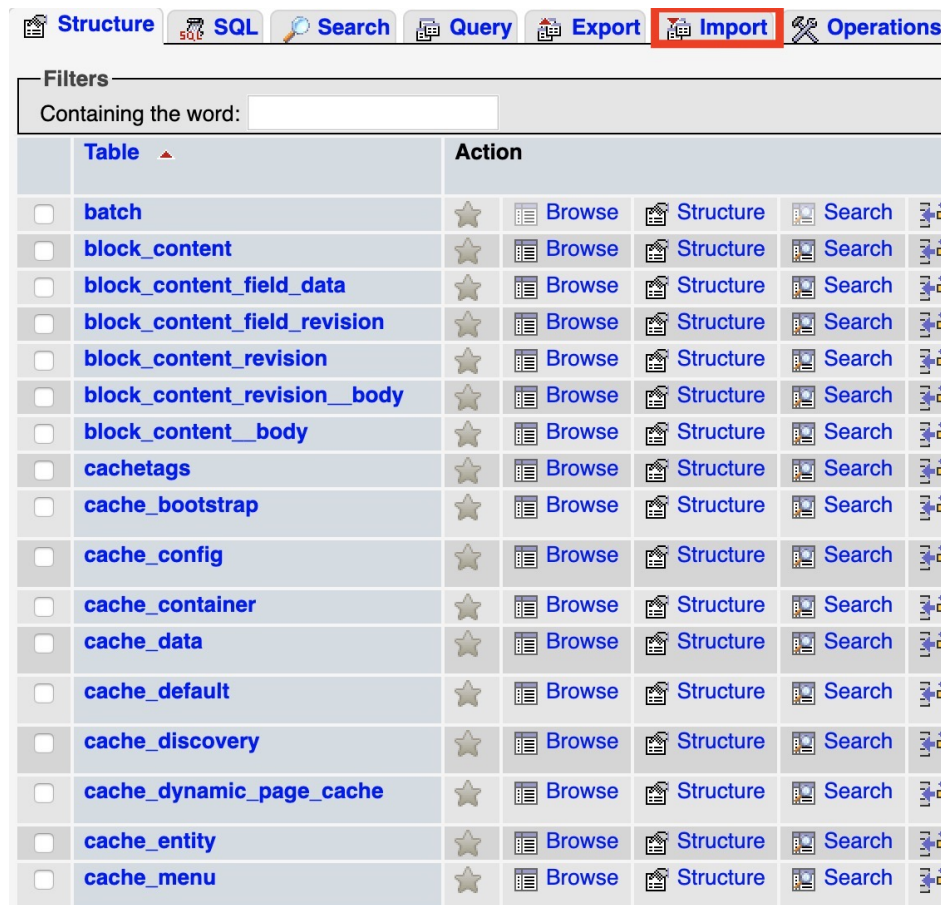


Figure 6: 'Import' Button on phpMyAdmin

7. Then, click the 'choose the file' and open the file name 'sqlbackup.sql.zip' in this repo. Now, you have imported our back-up files from the server.

Open this file by any test editor

```
1 'html' or 'any folder for your Drupal directory' / sites/default/settings.php
```

Find this lines of the code (it is located at the very bottom)

```
$databases['default']['default'] = array (
  'database' => 'db_name',
  'username' => 'user_name',
  'password' => 'password',
  'prefix' => '',
  'host' => 'localhost',
  'port' => '3306',
  'namespace' => 'Drupal\\Core\\Database\\Driver\\mysql',
  'driver' => 'mysql',
);
```

Figure 7: Database Code

Please change database, username and password sections to match your local settings (the database you have imported the above) Finally, you can connect our Drupal Website. If you are using MAMP, MAMP already sets

the username and the password for MySQL for you. This is where you can find your username and password (in MAMP main page). All you needs are user and password. (Mostly, these are already set as root and root)

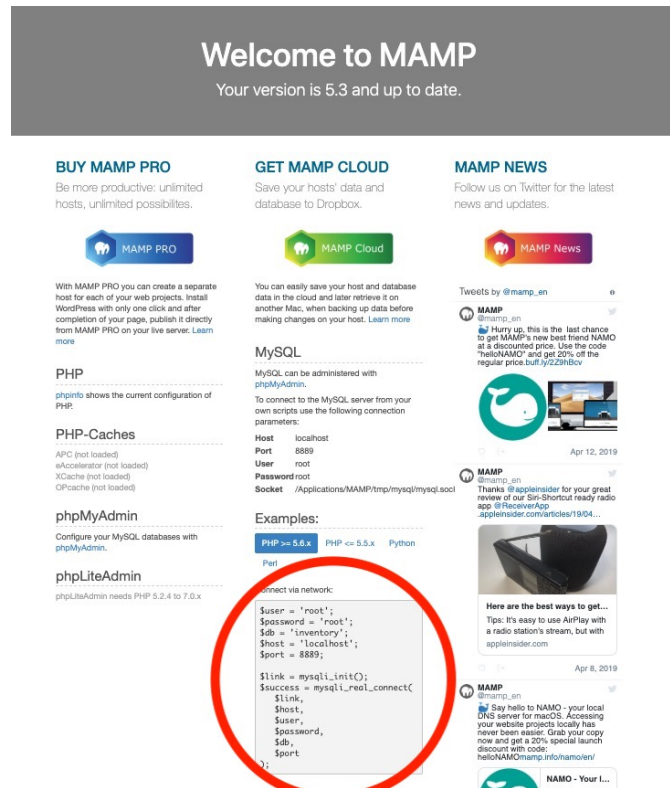


Figure 8: Database Information on MAMP

8. You can connect to your localhost by:

```
1 http://localhost or http://localhost:8888
```

You may want to log in to the site to see how the site actually works. (Click '+' sign at the top right corner)

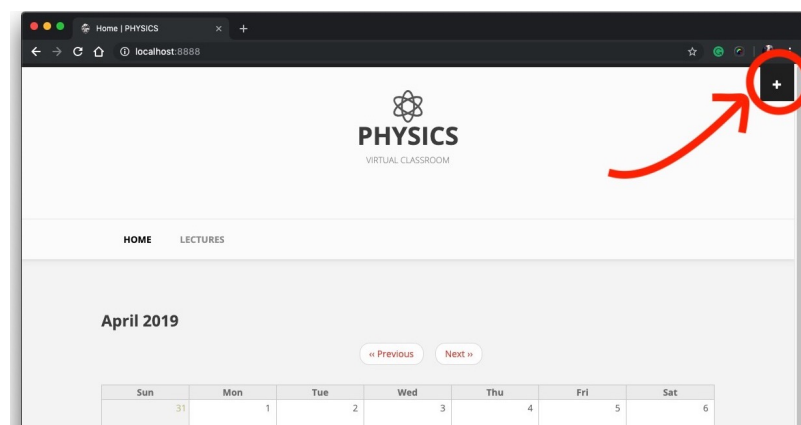


Figure 9: Login Button on Physic Virtual Classroom Website

If you don't know the username and the password, please contact Walsh, Kenneth.

Note: if you are trying to connect to Drupal, not by localhost, you need to modify this code in the same setting.php file. Add your host name in the array.

```
731 $settings['trusted_host_patterns'] = array(  
732     '^www\.drupal\.maxcasts\.com$',  
733     '^drupal\.maxcasts\.com$',  
734     '^www\.maxcasts\.com$',  
735     '^maxcasts\.com$',  
736     '45.79.77.63',  
737     'localhost', //this is for the back-up  
738 );
```

Figure 10: setting.php File

1.2 User manual

1.2.1 Add Lecture

1. Log in to an administrator account. Only users who have an administration account can add lectures.
2. Click 'Content' on the toolbar.

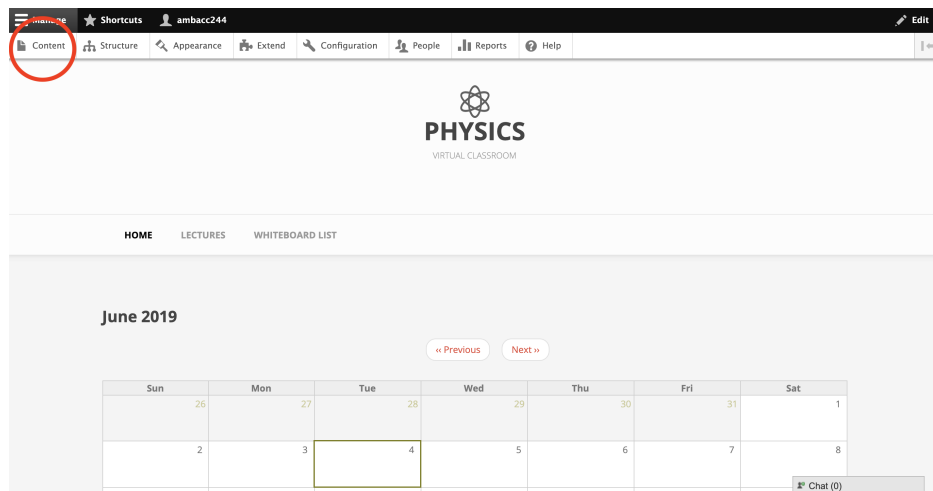


Figure 11: 'Content' Button on the Physics Virtual Classroom Website

3. Click '+Add content' → 'Lecture Video'
4. Need to fill out 'Create Lecture Video' form. There are four parts to fill out which are title, body, date, and video
 - Title: title of the lecture
 - Body: lecture description
 - Data: lecture date and time
 - Video: YouTube or YouTube live video link
5. Click 'Preview' to check lecture information again.
6. Click 'Save' to add the lecture.

1.2.2 Edit or Delete Lecture

1. Log in to an administrator account. Only users who have an administration account can edit lectures.
2. Click 'LECTURES' on the toolbar.

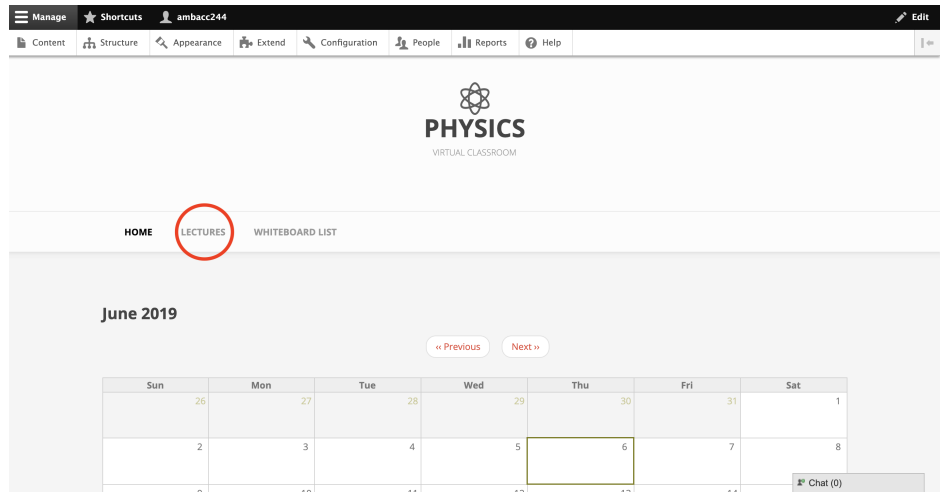


Figure 12: 'LECTURES' Button on the Physics Virtual Classroom Website

3. Click the lecture which you want to edit or delete on the table.
4. Click 'Edit' or 'Delete' to edit or delete the lecture.

1.2.3 Add, Edit or Delete whiteboard on the whiteboard list

1. Log in to an administrator account. Only users who have an administration account can add lectures.
2. Click 'WHITEBOARD LIST' on the toolbar.

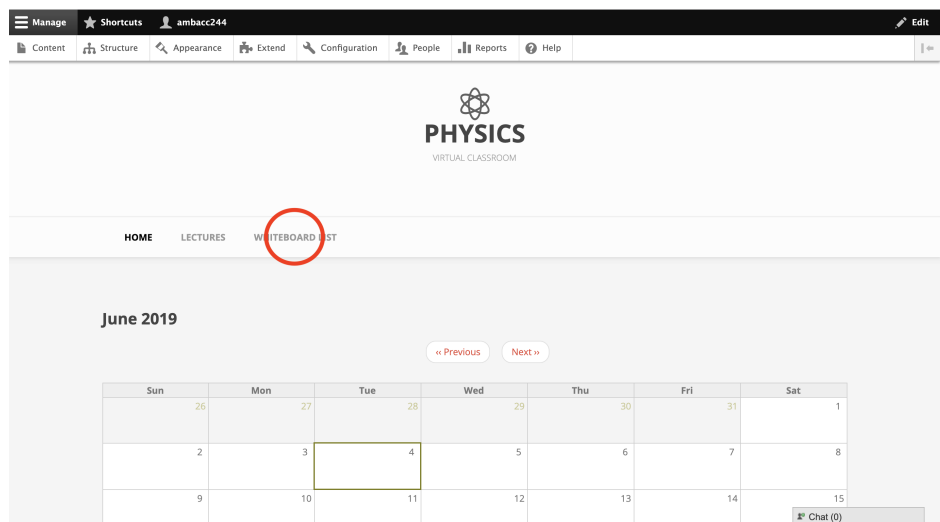


Figure 13: 'WHITEBOARD LIST' Button on the Physics Virtual Classroom Website

3. Click 'Edit' → 'Source'

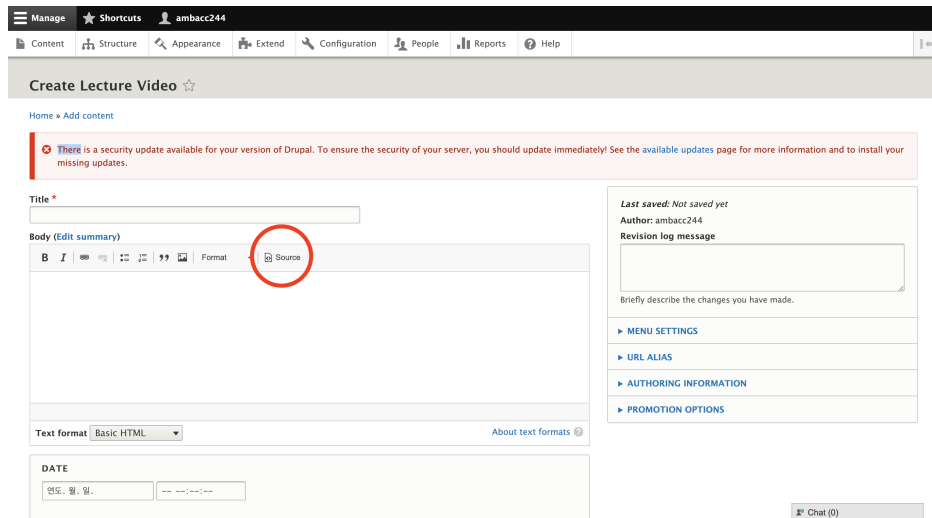


Figure 14: 'Source' Button on the Physics Virtual Classroom Website

4. Change code to create and delete whiteboard buttons.

1.2.4 Create new Administrator Account

1. Click 'People' on the toolbar.

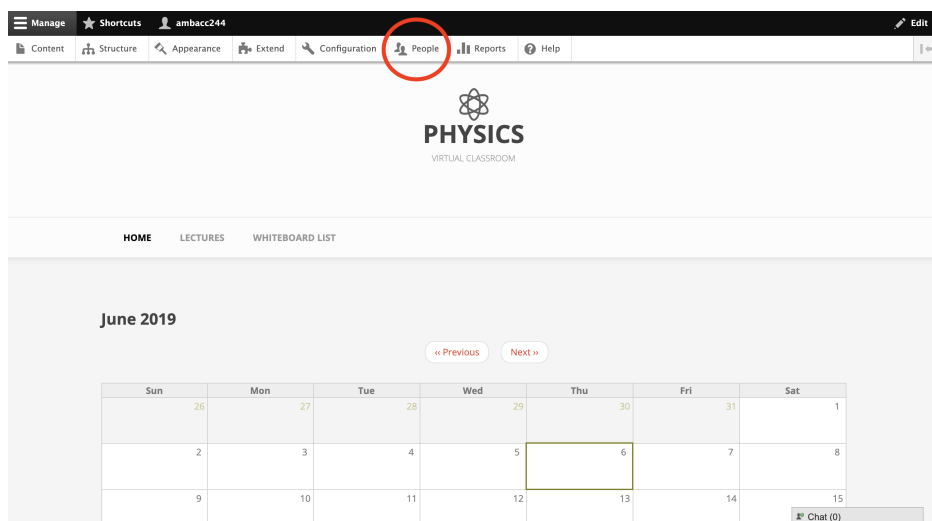


Figure 15: 'People' Button on the Physics Virtual Classroom Website

2. Click '+Add user'

3. Need to fill out 'Add user' form.

- Email address: Optional
- Username: Required
- Password: Required
- Status: Set as 'Active'
- Roles: Set as 'Administrator'

- Picture: Optional

4. Click 'Create new account

1.3 Back-up Guide

If you want to make back-ups of the current website, you need to duplicate the current folder of Drupal and export the current database. Then, follow the above instruction to install or re-install the website. Another easy tool for back-ups may be available as a module. You may want to find it at Drupal's module website.

1.4 Additional Information

1. The website does not require any permission to read any contents on the website. If you want to fix this, you need to download a module that will block anonymous users to read the specific contents of the website.
2. Drupal encourages users to keep the website up-to-date. Updating the website may cause some problems, so its always good to have the latest back-ups.
3. Currently, the website is run on 'http, not 'https. Some browsers may show a warning message because of the security issue. This can be fixed within the server. You also may want to change some settings of Drupal.
4. When you upload content, URL of the content may be ugly. It looks like this: drupal.org/node###. So, you may want to change the URL of the content manually. The feature can be found where you can edit the content. (Its called URL ALIAS) It looks better if you keep adding numbers of what you are posting. For example, /lecture1, /lecture2. There may some module that makes this automatic, but we could not find it.
5. The whiteboards in the list of whiteboards are currently managed by Erics account on AWW. This whiteboard may be removed if the whiteboard hasnt used for a long time. In case, you may want to create your own account on AWW and make the whiteboards. It will last a very long time (we havent checked how long those last).
6. Drupal can be easily crushed if you make an inappropriate change. So, please test it on your local machine and apply it on the main server.