# **CS-213 Advanced Programming**

## **Assignment-01**

"Exploring Open Source Softwares"



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## What Is Xoops?

Xoops, which stands for eXtensible Object Oriented Portal System, is a widely used open source Content Management System Platform that is written in PHP. It is totally free to use, modify and redistribute.

The platform can be used for various types of websites ranging from the smallest to the largest. It has various installation modules through which you can expand the website as much as you want to.

You can make a site as simple as a web journal or make it commercial adding tons of users with different privileges.

## **How Do You Configure?**

For the configuration, you will need to have:

#### 1. Database Server

For this step, phpMy is installed and a database is created to connect with the site once its created.

## 2. Web Server

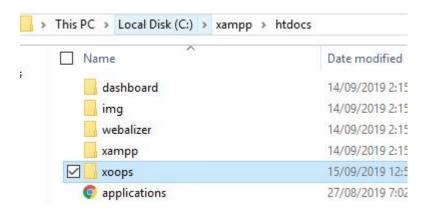
To host a local web server, I have installed XAMPP, an Apache based web server.

## 3. Downloading XOOPS

The compatible version is downloaded from the official xoops.org website in a zipped format. And the files are extracted in the **htdocs** folder of the local web server.

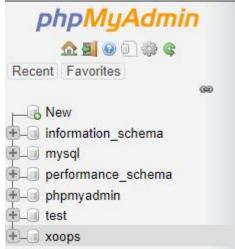
## 4. Placing XOOPS files in the local server folder

Xoops folder is placed in the htdocs folder of localserver as shown below:



## 5. Creating Database

The database is also initialized on the localhost using the phpMyAdmin, as shown below:



## 6. Making The Files Editable

The license file inside the data folder of xoops is toggled from **read-only** mode to make sure that the license number can be copied automatically into the file.

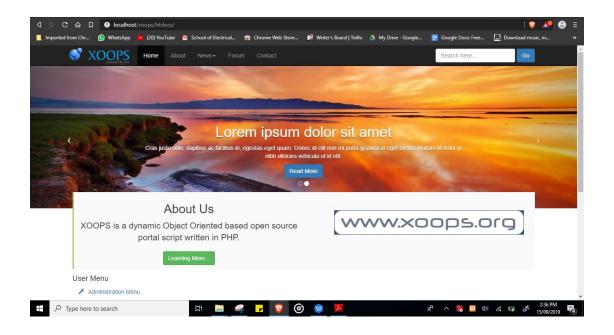


## 7. Setting Up the Website

From the local host, installation wizard of XOOPS is visited and the steps followed. Also, the connection to the database is made properly and the settings done based upon certain preferences.

During the process, the modules to be used in the websites are chosen like different features that are to be used in the website. Eg: Private messaging, posting etc.

Once the wizard is complete, automatic redirection to home page is executed.



## **Exploring The Site From User Perspective**

Now that we're fully done with creating a new website based on our local server, we can traverse all the different features and the services provided by the website to see different aspects of its usage.

## 1. Home Page

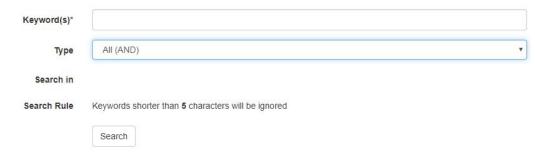
In the home page, there is info available for the website including a background cover. On the top, the navigation bar is available for navigation between different sections of the website along with a search bar.

An overall look of the homepage is as below:



Expanding the search bar will list different filters you can use to search users or content on the website as shown below:

#### Search

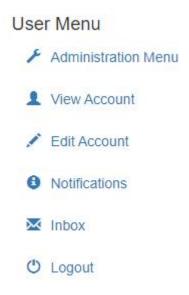


Going further down on the homepage, there can be found a User Menu and a Main Menu.

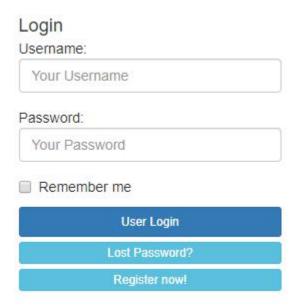
In the main menu, different services are mentioned that are provided by the website like viewing the profiles and private messaging.

# 

While in the User Menu, there are different options available to personalize and manage your account, ranging from editing your profile and checking your inbox etc.



If you haven't logged in, instead of the **User Menu**, you will see a login form where you can put your credentials to login if you haven't already.



Or, if you are not a registered user, you can register yourself by a button given at the bottom. A form will be displayed asking for your personal information in order to get yourself a new account on this website. Fill out the form and submit your info to get registered.

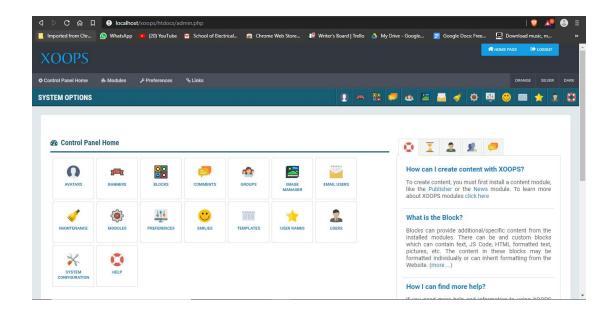
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Basic	
Jsername *	
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3 303500 - 6000	
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	While the administrators and moderators of this site will attempt to remove
	or edit any generally objectionable material as quickly as possible, it is impossible to review every message. Therefore you acknowledge that all posts
	made to this site express the views and opinions of the author and not the
	administrators, moderators or webmaster (except for posts by these people)
	and hence will not be held liable.
	You agree not to post any abusive, obscene, vulgar, slanderous, hateful,
	threatening, sexually-orientated or any other material that may violate any
	applicable laws. Doing so may lead to you being immediately and permanently
	banned (and your service provider being informed). The IP address of all
	posts is recorded to aid in enforcing these conditions. Creating multiple
	accounts for a single user is not allowed. You agree that the webmaster,
Disclaimer	administrator and moderators of this site have the right to remove, edit,
riscialmer	move or close any topic at any time should they see fit. As a user you agree to any information you have entered above being stored in a database. While
	this information will not be disclosed to any third party without your
	consent the webmaster, administrator and moderators cannot be held
	responsible for any hacking attempt that may lead to the data being
	compromised.
	This site system uses cookies to store information on your local computer.
	These cookies do not contain any of the information you have entered above,
	they serve only to improve your viewing pleasure. The email address is used
	only for confirming your registration details and password (and for sending
	new passwords should you forget your current one).
	By clicking Register below you agree to be bound by these conditions.
	☐ I agree to the above
	6 - 0 = ?
Confirmation Code *	Input the result from the expression
	Maximum attempts you can try: 10

In case of not remembering the password, an option for recovering your password is also available. Just press the **lost password** and hit enter. A form will be shown asking for your email associated with your account that you've lost the password to. This will send you a link to **reset** your password.

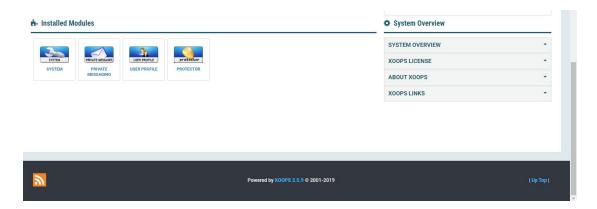
Lost your Password?	
No problem. Simply enter the e-mail ad	Idress we have on file for your account.

#### 2. Admin Panel

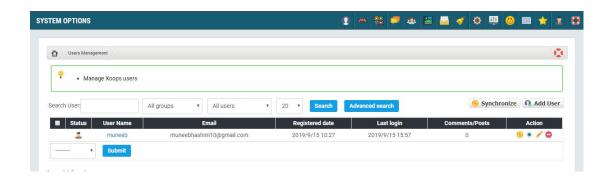
If the current logged in user is an authorized admin, then he can access a whole lot of different options from **control panel** to perform different operations on the website and manage the content and can change **System options** as well. Some of the available options are shown in the screenshot below:



Information about the installed modules System overview is also provided In the admin panel.



• Admin can also add or kick users out of the website and make groups as well.



## From The Database Manager Perspective

So far, we have explored the features and services of the website by looking at eyes through the eyes of a regular user. Now we will see how the database is being managed at backend to get a deeper insight.

We established the database using phpMyAdmin during the configuration stage and connected it to the website.

The database was automatically populated by the software and the tables initialized accordingly.

There's a total of 39 tables that are used to store the data of the website, having different fields and attributes that are pre-set. The tables include different entities including users, configs, images, modules and so on and so forth.

However, the database is totally modifiable and we can insert or drop any table according to our needs. An example view of the tables is attached below.



We can perform various actions on the database as well like running queries, exporting different records or tables, or importing them from any other databases according to the situation.

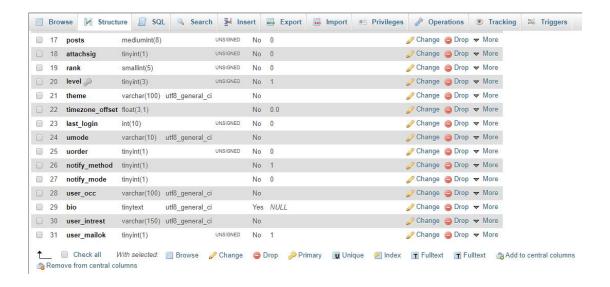
Specific records can also be searched.



We can further explore the attributes of different tables by collapsing them. For example, the user table has a total of 31 columns, used to hold the data of all the users that are registered with this website.

The different columns can also be modified or deleted from here.

A screenshot as a reference to the fields is shown below:

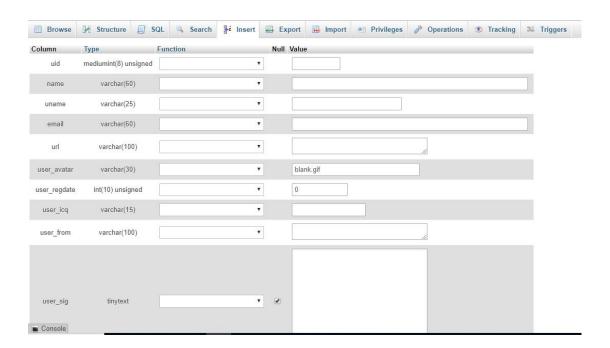


Moreover, the database backend also gives you options to add or delete any users or other data of the website directly. Just click on any record to directly modify or delete it.

#### **Changing The Name of The User**



#### Adding a New User



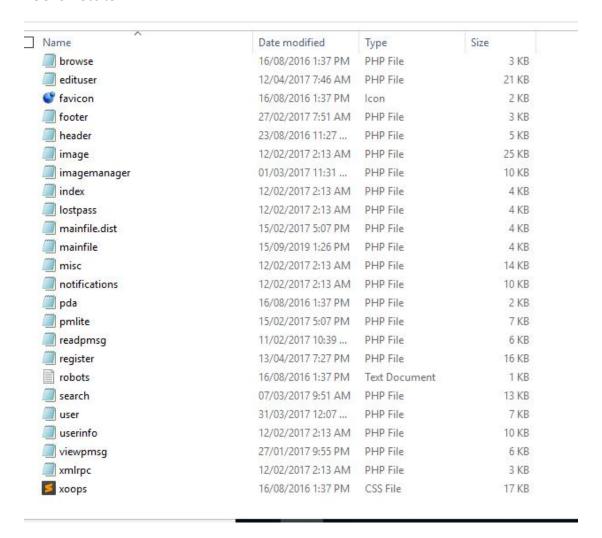
## **Data is Synchronized With The Website**

The data in each one of these tables, like the case of users table shown here, is completely in sync with the content of the website and whenever we change any type of data on the frontend of the website, its automatically updated in the database as well.

## **From The Coding Perspective**

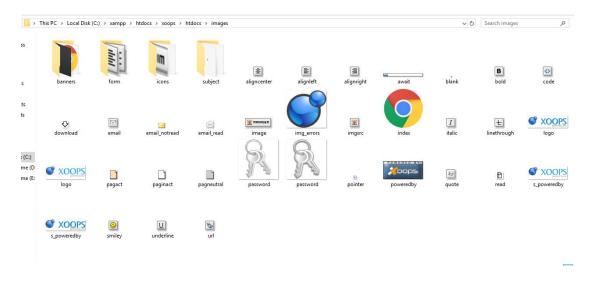
XOOPS is a PHP based website and is open source so we have full access to the back-end files.

The files which contain all the PHP code are placed in the htdocs folder of the local server and if needed, they can be edited from there to change the layout or functionality of the XOOPS website.

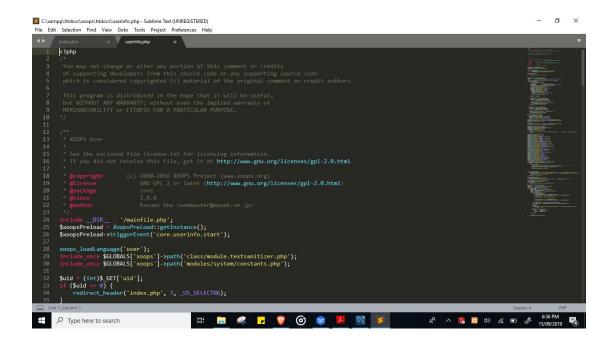


The CSS file which contains all the styling of the website looks something like this:

The images file, consisting of all the images that are used on the website.



 Next up is the view of Index filed opened in sublime text where we can edit the code if need be. Followed by the PHP files for the users.

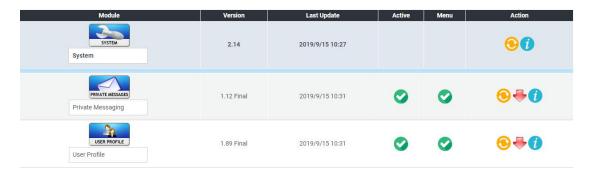


## **Adding More Modules To XOOPS**

Going to the **Module Administration** panel from an admin account, we can install or uninstall different modules that are recognized by XOOPS into our website increasing or decreasing its functionality.

This menu also makes us capable of updating, deleting or hiding the modules or to inspect their features.

As of now, the website has 3 modules which are shown below:



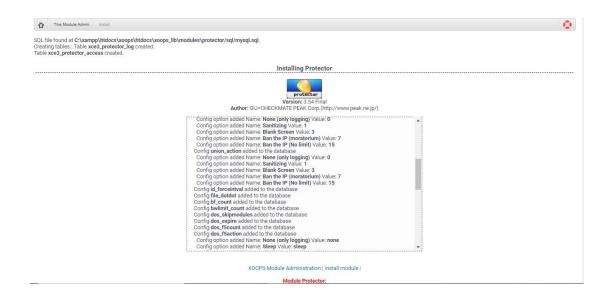
However, if we want to enhance our website, we can add new modules to our website by clicking the add modules button there as in the steps shown below:



- Clicking the button shows us the list of available modules that can be added to the
  website and are provided free of cost by the XOOPS developing community. From there,
  can select any number of modules that we want to add.
- Here, we have selected the **Protector** module to embed into our website.



Confirming it would start the installation process.



 Now that this module is added, there should be a total of 4 modules now that our website has, it can be confirmed by going back to the module administration now.

