



CS213: Advance Programming (3+1) BSCS7 Fall 2019

Assignment # 1

Name: Ayesha Munir	Class: BSCS 7B
Registration No: 216146	Topic: OSS (Joomla)
Submitted to: Dr Sidra Sultana	Date of Submission: 16 th September, 2019

Table of Contents

1.0 Installation of OSS -----	3
2.0 Exploring Joomla from user perspective -----	3
2.0.1 Joomla's Backend -----	3
2.0.2 Joomla's FrontEnd -----	3
3.0 Exploring Database -----	4
4.0 Developer's perspective -----	6
4.0.1 Installing Templates -----	6
4.0.2 Installing plugins and modules -----	7

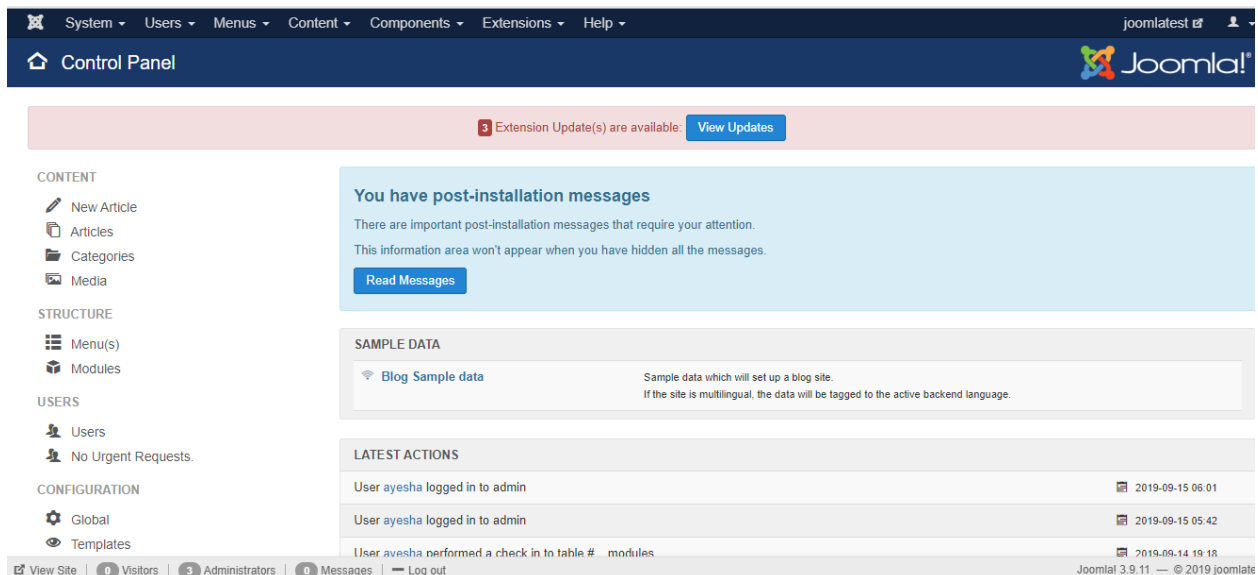
1.0 Installation of OSS:

My choice of OSS is **Joomla 3.9.11**. The reason of choosing this was that Joomla is one of the most popular open source software which comes with a variety of plugins and modules to play with. First, I downloaded the **WampServer**. Opened **phpMyAdmin** by clicking on WampServer icon in the system tray. **Created new database** named “joomla” on that page. Then I downloaded **Joomla 3.9.11** from “<http://www.joomla.org/>”. In order to get Joomla working with WampServer I unzipped Joomla to the folder C:/wamp/www/ folder. Then opened the Joomla on web browser and set some settings accordingly.

2.0 Exploring Joomla from user perspective:

2.0.1 Joomla's Backend:

When I opened Joomla index page it looked something like below:

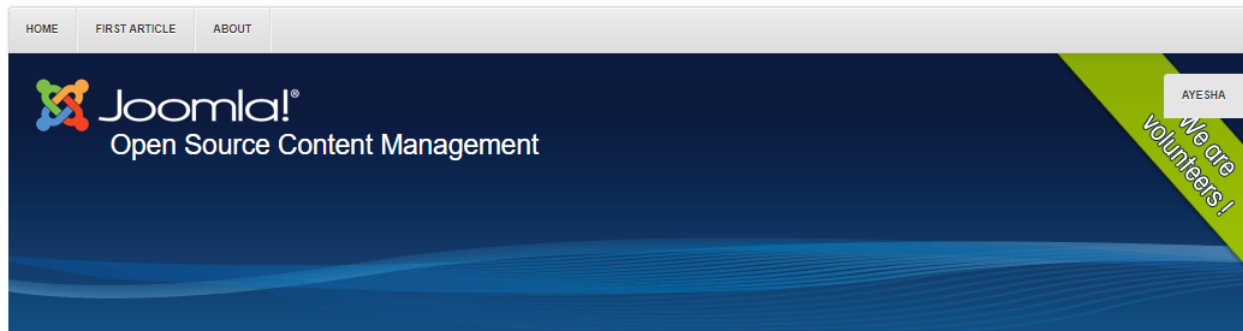


At the top of it, it had a menu with different options ‘System’, ‘Users’, ‘Menus’, ‘Content’, ‘Components’, ‘Extensions’ and ‘Help’. On the left, it had some quick options like creating articles, modules or adding users etc. in the middle it had some latest news like newly created articles, logged in users, latest actions taken etc.

2.0.2 Joomla's FrontEnd:

Joomla's Frontend looked like this:

It had a login form and menu.



Home

Login Form

Username
ayesha

Password

☐ Remember Me

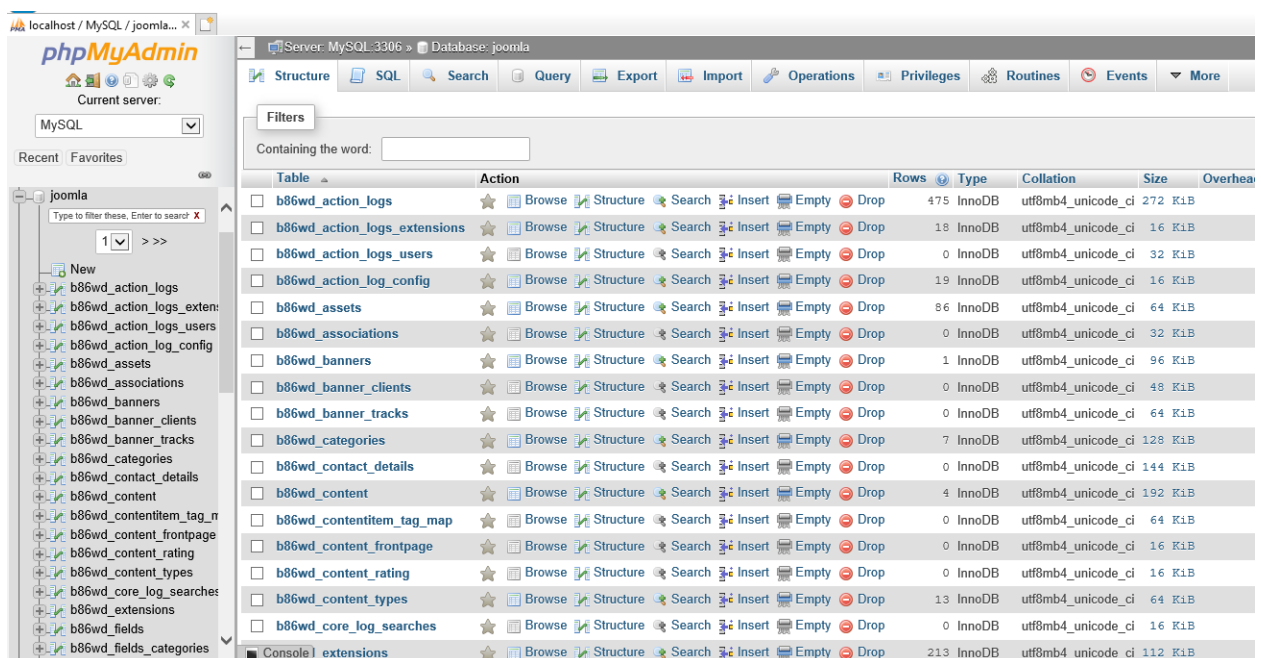
[Log in](#)

[Forgot your password?](#)
[Forgot your username?](#)

*the menus in the above figure have been created by me afterwards

3.0 Exploring Database:

The database could be seen by opening phpmyadmin from the wamp icon. The Joomla had already created some databases at the time of installation.



I explored some of these databases, their primary keys, how these are related with each other and how changing the data in database changes the data in the backend.

I created some articles and tried to change them using database:

☐ Show all
 |
 Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

+ Options

	id	asset_id <small>FK to the #_assets table.</small>	title	alias	introtext	fulltext	state	catid	created
<input type="checkbox"/> Edit Copy Delete	1	61	ayesha article	ayesha-article	<p></p>		1	8	2019-09-11 10:42:59
<input type="checkbox"/> Edit Copy Delete	2	62	new	new	<p>hello</p>		1	8	2019-09-11 11:22:12

☐ Check all
 |
 With selected:
 [Edit](#)
[Copy](#)
[Delete](#)
[Export](#)

☐ Show all
 |
 Number of rows:

25

Filter rows:

Search this table

Sort by key:

None

In the above figure there are two articles which I created in the backend and they are shown in the database. The second article had text 'hello'. I tried to change it using database. After making changes, the new article was:

joomlatest

new

Details

Written by Super User

Category: ayesha category

Published: 11 September 2019

Hits: 5


hello1

hello2

hello3

You are here: [Home](#) ▶ [ayesha](#) ▶ [ayesha category](#) ▶ new

I created a menu whose database was like following:



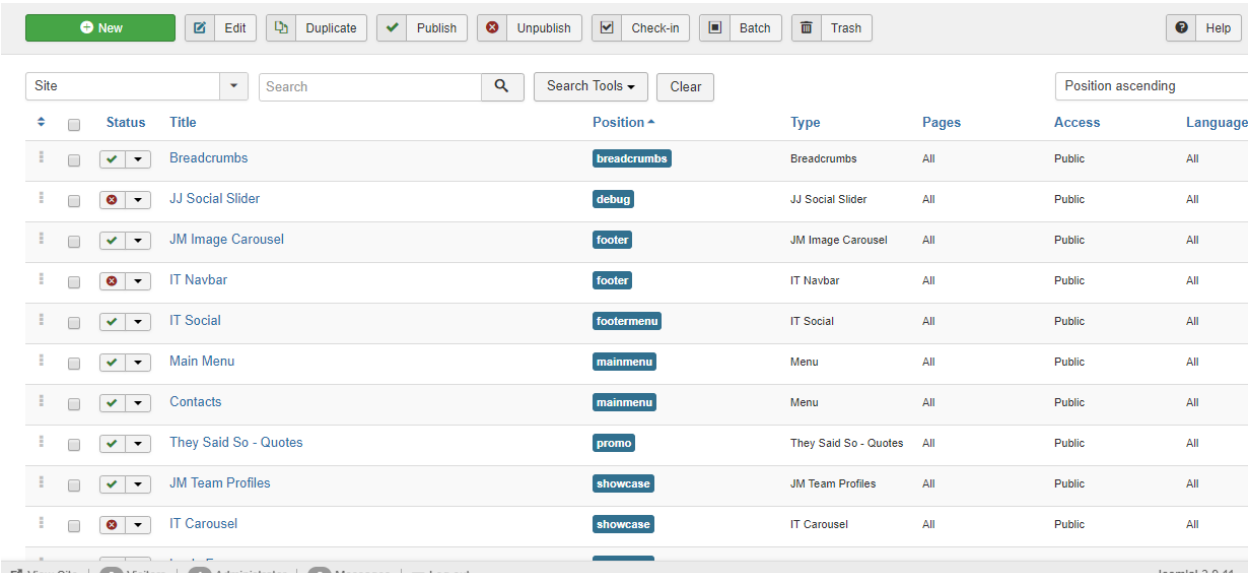
	id	type	link	text	url	target	image	params	component
<input type="checkbox"/>	101	mainmenu	Home	home	home			index.php?option=com_content&view=featured	com_content
<input type="checkbox"/>	102	mainmenu	ayesha	ayesha	home/ayesha			index.php?option=com_content&view=article&id=1	com_content
<input type="checkbox"/>	103	mainmenu	ayesha category	ayesha-category	ayesha-category			index.php?option=com_content&view=article&id=1	com_content
<input type="checkbox"/>	104	mainmenu	first article	first-article	first-article			index.php?option=com_content&view=article&id=2	com_content

4.0 Developer Perspective:

Using Joomla as a developer, I tried some of the features as discussed below:

4.0.1 Installing templates:

The first thing I did was to change the view of my front end. I opened **icetheme templates** from <https://www.icetheme.com/free-themes>. There were free templates available here. I downloaded the It-Zen template from <https://www.icetheme.com/free-themes/it-zen>. A zip folder was downloaded. I went in Joomla's backend. Opened Extensions->Manage and uploaded my zip folder. The zip folder already contained some plugins and modules. I uploaded them as well. After that I enabled the plugins and modules which I wanted, adjust their positions and checked them on my frontend.



	Status	Title	Position	Type	Pages	Access	Language
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Breadcrumbs	breadcrumbs	Breadcrumbs	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	JJ Social Slider	debug	JJ Social Slider	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	JM Image Carousel	footer	JM Image Carousel	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	IT Navbar	footer	IT Navbar	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	IT Social	footermenu	IT Social	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Main Menu	mainmenu	Menu	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Contacts	mainmenu	Menu	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	They Said So - Quotes	promo	They Said So - Quotes	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	JM Team Profiles	showcase	JM Team Profiles	All	Public	All
<input type="checkbox"/>	<input checked="" type="checkbox"/>	IT Carousel	showcase	IT Carousel	All	Public	All

View Site | 0 Visitors | 1 Administrator | 0 Messages | Log out | Joomla! 3.9.11

[Home](#) [first article](#) [About](#)



ayesha article

Written by Super User Category: [ayesha category](#) Published: 11 September 2019 Hits: 60



ayesha article

Latest News Enhanced

Welcome

Welcome to my website

Welcome

Welcome to my website

new

hello1 hello2 hello3

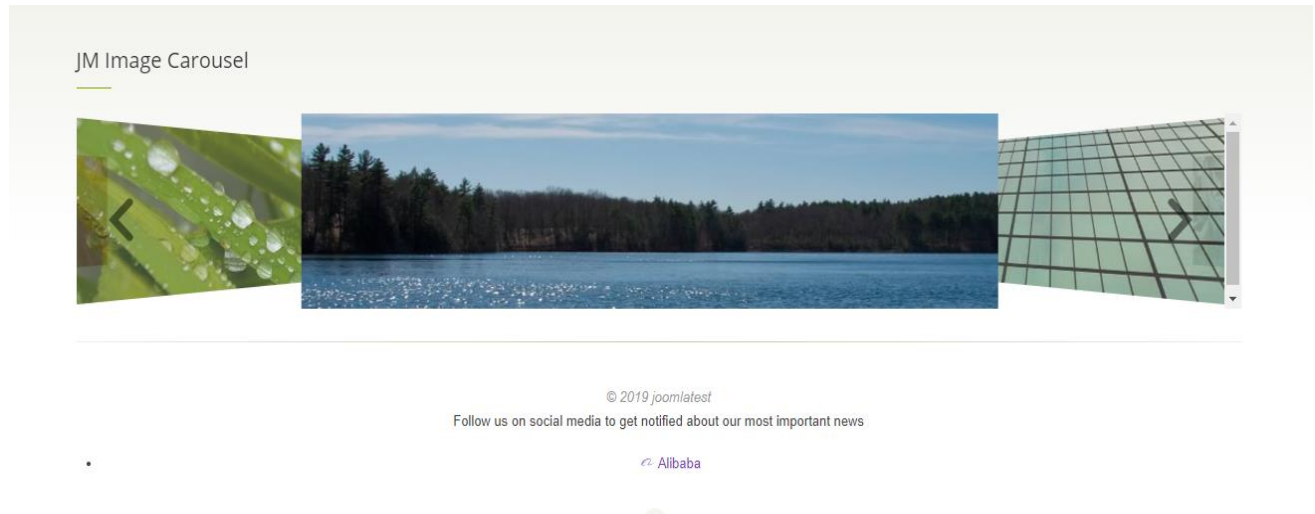
ayesha article

ayesha article

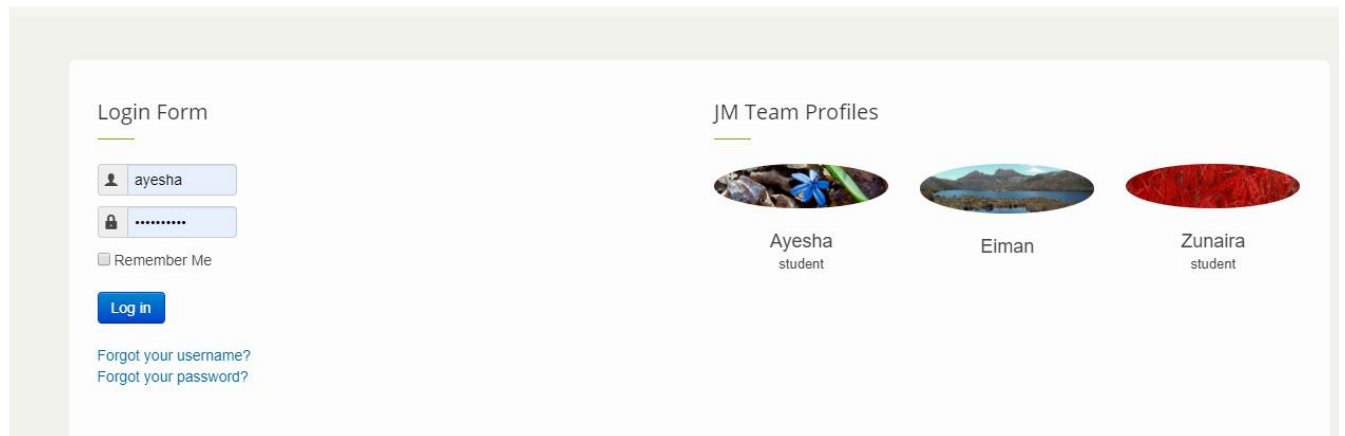
4.0.2 Adding plugins and modules:

Joomla had many free plugins and modules which I downloaded from <https://extensions.joomla.org/>.

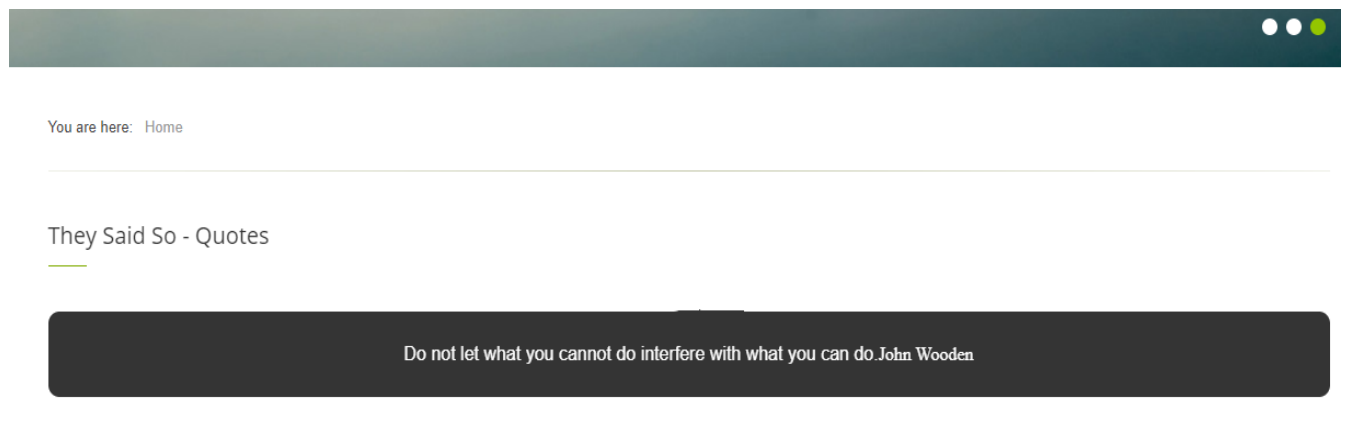
- The first was a JM image Carousel. As I downloaded the template, in the same way I downloaded this. After adding pictures, enabling it and setting its positions, it looked something like this.



- The next I downloaded the JM Team Profiles, added the members, enabled it and the teams profile was shown on the frontend as shown below.





- I added the 'quotes' extension which showed quotes on daily basis.



- I added current date and time:

Login Form

 ayesha




☐ Remember Me

[Log in](#)

[Forgot your username?](#)

[Forgot your password?](#)

Current Date & Time



12:17:57

Sunday

Universal Time, Coordinated (UTC)