

ADVANCED POGRAMMING

Assignment # 1



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BSCS 7-B

Magento 2

Magento is a feature-rich, professional open source e-commerce web application that was launched on March 31, 2008. Magento offers merchants complete flexibility and control over the look, content and functionality of their online store. Magento's intuitive administration interface contains content management, powerful marketing and merchandising tools to give merchants the ability to create sites that are fully fit their unique business needs, putting no constraints on business processes and flow.

When Magento was released in 2008, it transformed the ecommerce platform market. In a period of 18 months, Magento surpassed one million downloads and now records billions of dollars of transactions worldwide by tens of thousands of merchants. Purchased by eBay in early 2011, it continues to be the fastest growing ecommerce platform in the world. There is some amazing information of Magento:

- Over 25% of online businesses in the world choose Magento as their platform.
- Over \$25 billion transaction was made each year.
- Over 300 solution & industry partners in the world.

Here are few reasons for people to choose Magento:

- * Easily to control and manage your online store.
- * Flexible to meet your unique needs.
- * Enterprise edition features.
- * Scalable to grow with your business.
- * Thousands of Magento extensions to meet your requirements.

System Requirements to install Magento:

Our system requirements include required software to run the Magento application, supported web browsers, and also recent requirements to securely connect with our software repository and with PayPal.

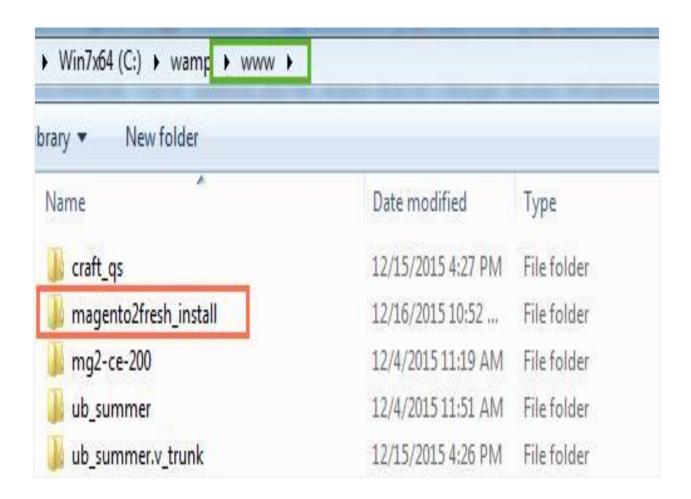
See the following for more detail:

- Magento technology stack requirements
- Supported browsers
- TLS requirement for repo.magento.com
- TLS 1.2 requirement for PayPal
- Apache 2.2 or later

- PHP 5.5.x or PHP 5.6.x
 - Note: Magento 2 does not support PHP 5.4.
- Required PHP extensions:
 - o PDO/MySQL
 - o mbstring
 - o mcrypt
 - o mhash
 - o simplexml
 - o curl
 - o gd2, ImageMagick 6.3.7 (or later) or both
 - o soap
 - o intl
 - o bc-math
 - o openssl
- MySQL 5.6.x
- Mail Transfer Agent (MTA) or an SMTP server

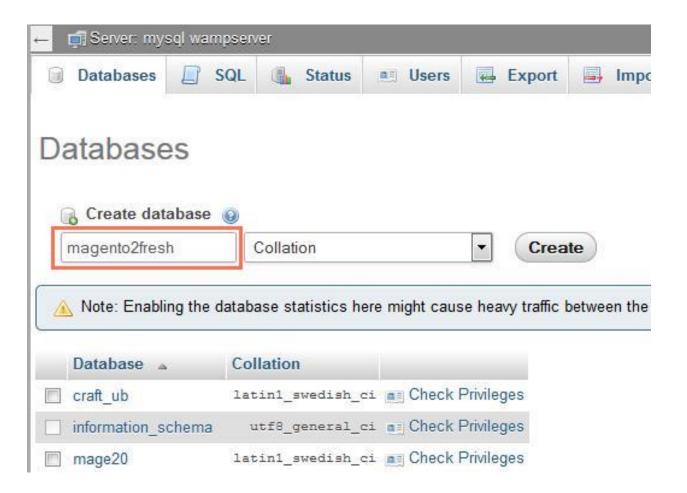
When you are done with verifying your prerequisites, follow the steps below to install Magento 2.

1. Upload package to your web root



Create DataBase

Open PHPmyadmin, then create Database for Magento 2.0



Follow the 7 steps below to start your Magento installation

From your browser, navigate to the location of the Magento downloader on your server.

Step 1: Agree and Setup

The Magento Downloader welcome page appears.



Version 2.0.0

Welcome to Magento Admin, your online store headquarters.

Click 'Agree and Set Up Magento' or read Getting Started to learn more.

Terms & Agreement

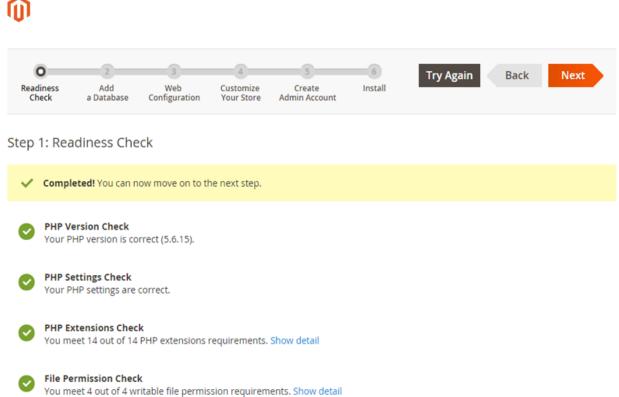
Agree and Setup Magento

Start setup

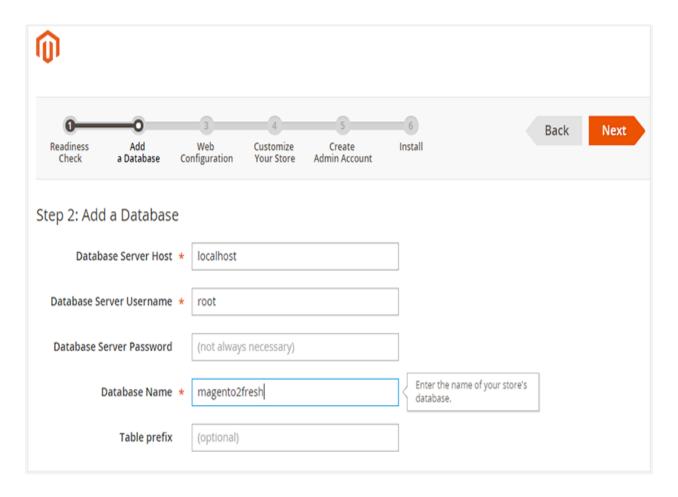
Step 2: Verify System requirements

To validate your server environment, click the Continue button. If error warnings appear, you must correct the errors and validate your environment again

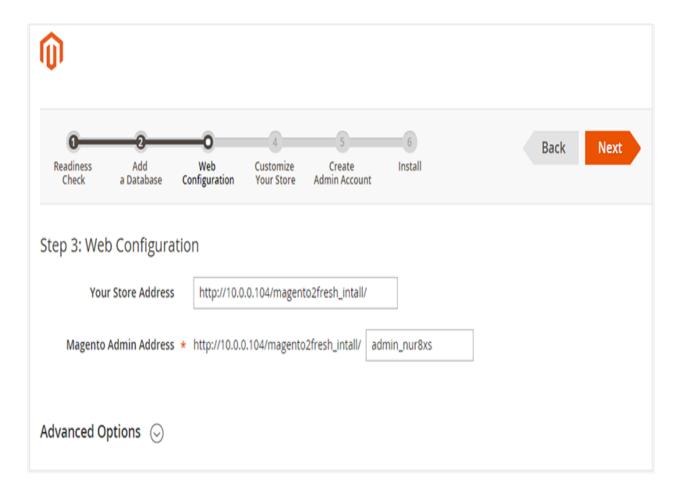




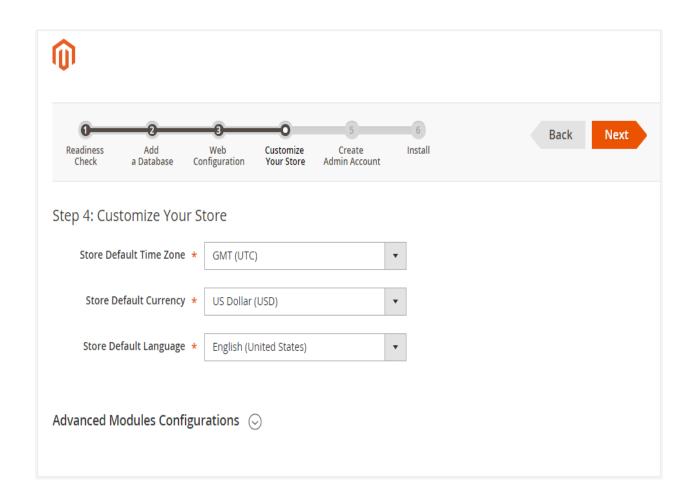
Step 3 : Setup the database



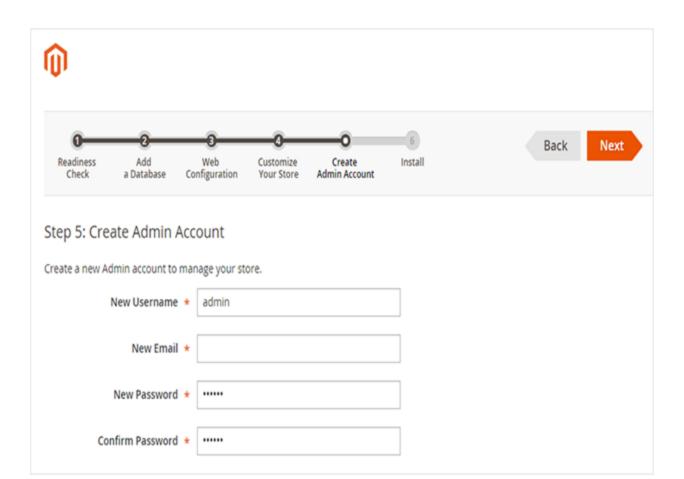
Step 4 : Web Configuration



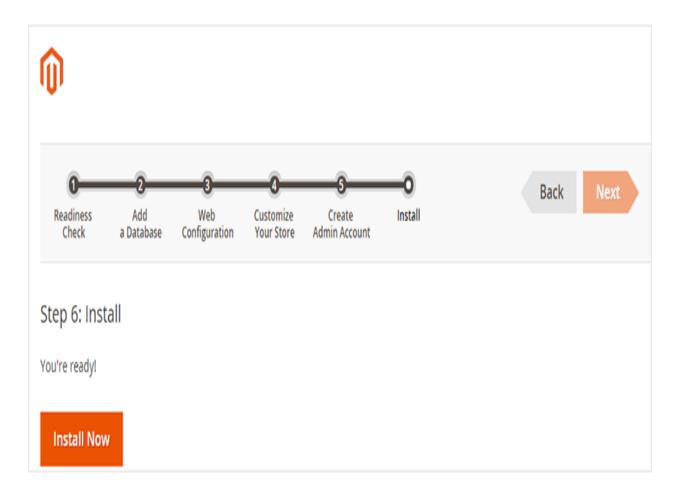
Step 5 : Configure Language, Time Zone and Currency



Step 6 : Create Admin Account



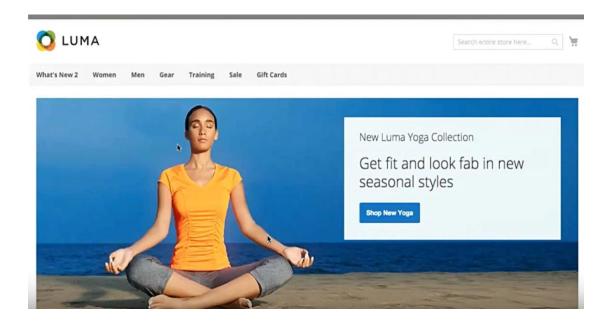
Step 7: Install & Finish



Exploration Being a USER:

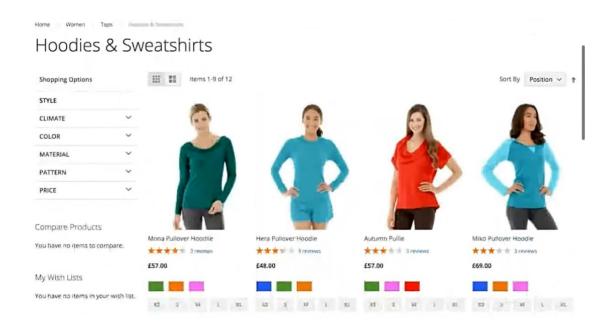
User or client is a person who comes to your website to interact with your website and is attracted by the structure of your website, your design or the attraction you have made to convince the user to come to your website and stay long on your site. Magento provides a lot of user interaction to interact user with your site like editing the content, giving reviews, commenting, adding things to the cart, making and maintaining a wishlist and so on.......

MAIN Page of Sample Website:

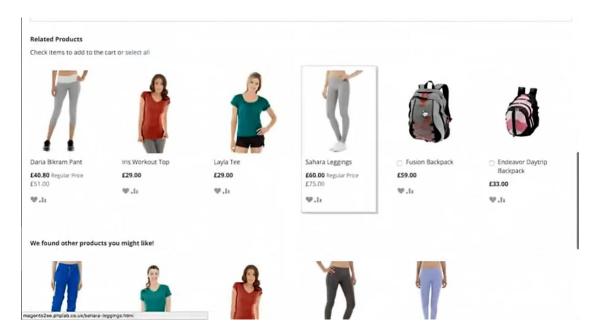


As a user there are a lot of feature through user can interact with the website like:

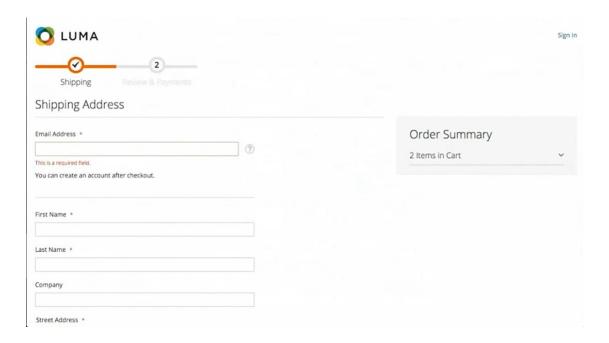
- 1. The main Manu bar of the website allows the user to see and open the main and important services of the website and main categories.
- 2. The main page of the website provides the attractive and convincing interface and user can easily got the idea what about this website is.
- 3. Scrolling the main page can give a complete tour of the website.
- 4. A user can also get the news of the new arrival of the stock.
- 5. A user will be able to maintain a wishlist of the product he likes after the complete exploration of the website which engages him to the website for long.
- 6. User can also comment or review about the product which helps the aftercoming to decide about the quality and experience of the products.
- 7. User can also select different styles, categories and colors which are provided by the framework Magento as:



8. The user can explore and search the product of his own choice and category either for men and women and can take an overview and detailed description of the product.



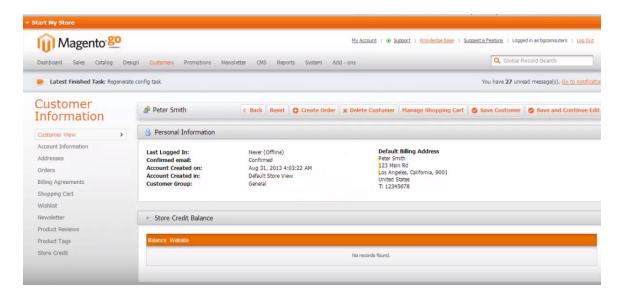
9. User can place the order by giving the important and reachable credentials:



Exploration Being a Database Developer:

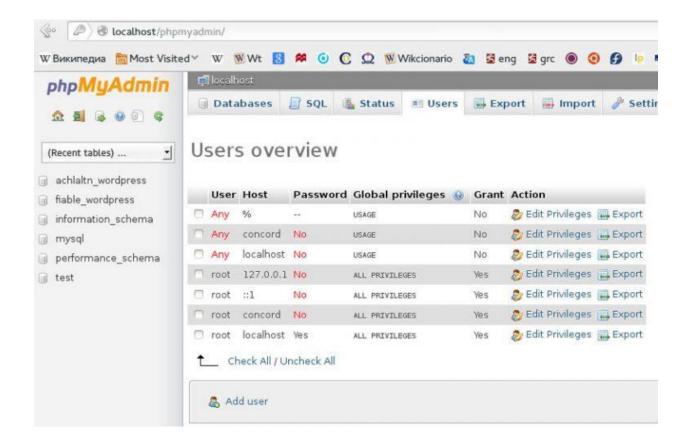
A Database Developer is primarily responsible for creating and implementing databases. He determines the best **database** management system for a particular client, as well as test **database** programs for efficiency and performance and troubleshoot and correct problems. In Magento a database is developed on the SQL server and is being managed and implemented by the database developer. Database Developer maintain the records of the users who have logged in to the website and stores their liked products and also show the content accordingly. Also the database developer make the updates in the website and create the database of newly added products to the website. Storing user comments and user reviews to the database and analyzing that feedback is also an important task of the of the DB Developer.

The DB Developer login into the Admin system and can see and make changes in the dataase accordingly. He can see the customer information, orders and so on as:



There are a lot of controls available to the DB Developer and he can update the data of users, tables and other available privileges. He can add and remove users and products according to the need and requirements. The Users Tab allows the control over the user which includes creating new user and managing them this data is directly linked to the database along with a lot of other data in phpMyAdmin.

The DB Developer has the power and ability to create new users, new tables, new databases according to the need of the store and requirements.



Being a Backend Developer:

As a backend developer, a backend developer has the power given by the magento framework to change and manipulate the contents of the website. Either it is HTML, or CSS or JAVAscript a backend developer can change the product display styles, their arrangements, prices, categories, designs through this framework. According the need and requirements and most of the time from the feedback given by the users and reviews, a backend developer decides to change the style, price or listing of the products. Updating the css files will change the look of the website, js files are responsible for the dynamic changes, php is needed to communicate with the server. In order to make changes to the files a coder needs access to the admin.

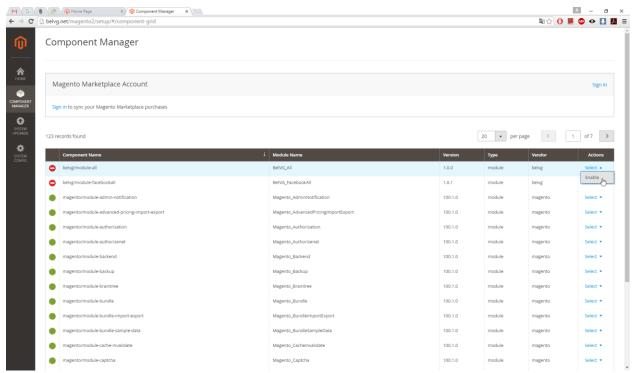
Adding Modules to Magento

This method requires Cron tasks set up and proper running. In case it has not performed yet — do it. You will need it further, not only while extensions installing.

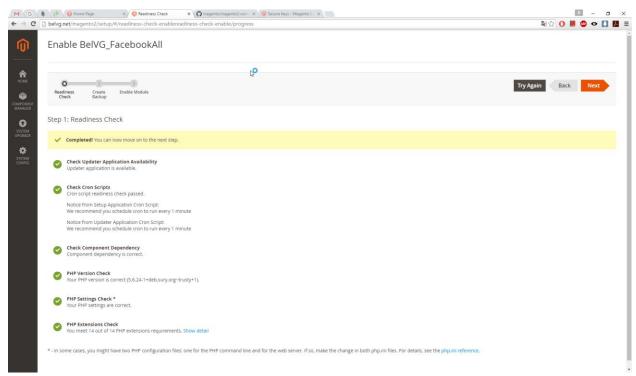
So if Cron is set up correctly, just follow the path in admin panel to initialize the module:

System/ Web Setup Wizard/ Component Manager

Here you can enable all available modules.

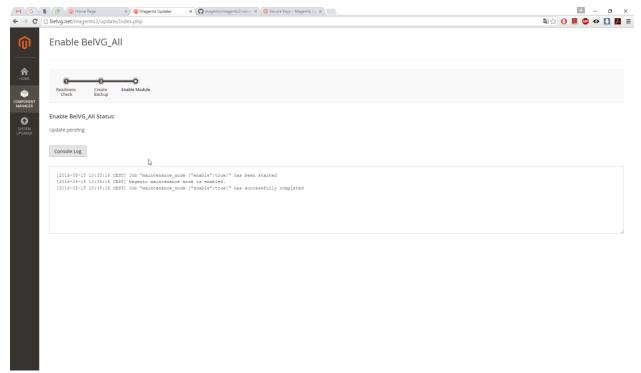


In case Magento is set up properly you'll see the notification that all of the systems run correctly.



Further, before you enable the custom module in Magento 2, Backup creation will be proposed.

And finally we will see the following screen:



The module has been enabled. And now we can switch back to the module list and enable (install) the next one.

Problems I Faced During the Assignment

Following are the major problems I faced during the assignment:

Problem # 1

Error! You need to resolve these issues to continue.



PHP Settings Check *
Your PHP settings are correct.

PHP Extensions Check
3 missing PHP extensions. Hide detail

The best way to resolve this is to install the correct missing extensions. The exact server, your host, and other system variables.

Our PHP extension help can get you started.

I searched on internet and finally solved the problem.

Solution:



Open your Php.ini file available at the location {your_installation_drive}:\xampp\php

O Search for the below given extension over there.



extension=intl.dll
extension=php_soap.dll
extension=php_xsl.dll

May be available at line no 884, 906 & 911 respectively just remove the ; symbol before the extensions.

Save the php.ini file & restart the the server again

If still facing the same problem feel free to revert

Thank you!

Step 2: Add a Database

X SQLSTATE[HY000] [1045] Ac	cess denied for user 'root'@'localhost' (using password: NO)
Database Server Host 🔸	localhost
Database Server Username *	root
Database Server Password	(not always necessary)
Database Name *	mydb

I also solved this issue by searching on the internet.