CNSA 266 final notes

Win svr 2016 standard, on vmware, 4gbs memory

Add IIS through add roles and features. Turned on every single option. Installed.

Installed updates.

Installed visual studio 2019

Installed mysql

Selected server option (middle) and new auth method.

p/w: cnsaCNSA1234

added “Miranda” as db admin user

[MySQL : HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html" HYPERLINK "https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html": MySQL 8.0 Reference Manual :: 2.3.3 MySQL Installer for Windows](https://dev.mysql.com/doc/refman/8.0/en/mysql-installer.html)

[Linux HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4"github HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" HYPERLINK "https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4" desktop install](https://github.com/shiftkey/desktop/tree/release-2.9.12-linux4)

$ wget -qO - <https://mirror.mwt.me/ghd/gpgkey> | sudo tee /etc/apt/trusted.gpg.d/shiftkey-desktop.asc > /dev/null

# if you want to use packagecloud.io

$ sudo sh -c 'echo "deb [arch=amd64] <https://packagecloud.io/shiftkey/desktop/any/> any main" > /etc/apt/sources.list.d/packagecloud-shiftkey-desktop.list'

# if you want to use the US mirror

$ sudo sh -c 'echo "deb [arch=amd64] <https://mirror.mwt.me/ghd/deb/> any main" > /etc/apt/sources.list.d/packagecloud-shiftkey-desktop.list'

$ sudo apt update && sudo apt install github-desktop

[https://ubuntu.com/tutorials/install-and-configure-apache#1-overview](https://ubuntu.com/tutorials/install-and-configure-apache)

sudo apt update

sudo apt upgrade (if upgrades available)

sudo apt install apache2

<https://askubuntu.com/questions/19898/whats-the-simplest-way-to-edit-and-add-files-to-var-www>

virtual host, idk what Im doing wrong but this wasn’t working

did the group adding from top comment on top response

sudo cd /home/Miranda/virtualhost.conf /etc/apache2/sites-available

<https://www.theserverside.com/blog/Coffee-Talk-Java-News-Stories-and-Opinions/How-to-git-clone-on-Ubuntu-with-GitLab-and-GitHub>

check status of apache:

service apache2 status

atom on linux

<https://flight-manual.atom.io/getting-started/sections/installing-atom/#platform-linux>

download deb package and install that way

(see other doc for all in one place linux notes)

mysql functions were removed from php in v7. The new api is mysqli (or another one). Luckily, you can look up functions on php.net/manual to find the old ones with links provided to the replacement. So now it’s just a matter of replacing it all.

<https://www.php.net/manual/en/mysqli.construct.php>

running on iis

<https://docs.microsoft.com/en-us/iis/application-frameworks/scenario-build-a-php-website-on-iis/configuring-step-1-install-iis-and-php>

[~~https://www.microsoft.com/web/downloads/platform.aspx~~](https://www.microsoft.com/web/downloads/platform.aspx)

~~install php 8.0 and the ms driver (5.9) for php 8.0 on iis~~

(my ubuntu VM decided to kill the network adapter again)

PHP through web platform doesn't work!! Do the manual installation (section 1.3). I think that worked? I can see a php error which is progress.

(attempted) to completely remove PHP via web platform and then installed it manually. having a file with just phpinfo in it is very helpful for debugging. Had to edit php.ini (which is renamed from php.ini-production)

turned on errors

uncommented/added:

extension=mysqli

extension=php\_mysqli.dll

session.save\_path = "C:\CNSA266\_Final\tmp" (also had to make a tmp folder there)

I think I added something about "ext" for mysqli (c:\php\ext) but I cant find it in there

PHP email

<https://github.com/PHPMailer/PHPMailer>

<https://alexwebdevelop.com/phpmailer-tutorial/>

Installed manually, trying to install with composer caused problems because of mysqli

[https://support.google.com/mail/answer/7104828?hl=en HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"visit\_id=637862314485888123-4087107387 HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"visit\_id=637862314485888123-4087107387 HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"visit\_id=637862314485888123-4087107387 HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"visit\_id=637862314485888123-4087107387 HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"visit\_id=637862314485888123-4087107387 HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"& HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"rd=3" HYPERLINK "https://support.google.com/mail/answer/7104828?hl=en&visit\_id=637862314485888123-4087107387&rd=3"rd=3](https://support.google.com/mail/answer/7104828?hl=en&visit_id=637862314485888123-4087107387&rd=3)

uncommented "extension=openssl" in php.ini

created a new gmail account for this project, see details below

email: auctionsite.cnsa@gmail.com

p/w: cnsaCNSA1234

had to toggle the less secure apps thing in google acct settings

"wait an hour" ugh

using gmail example from phpmailer github

<https://support.google.com/mail/?p=BadCredentials>

Changed all require functions to require\_once functions

fixed all redirects according to this: <https://www.exchangecore.com/blog/how-redirect-using-php> and first answer here: <https://stackoverflow.com/questions/4871942/how-to-redirect-to-another-page-using-php>

set up the function in functions.php

replaced the old, very stupid date time selection with something from this century

added a hidden field to keep the item id through page submit

messed around with the image upload stuff until it worked, took a while.

permissions for images folder, also made it a virtual directory in IIS

in itemdetails.php, had to break up the <form> to be able to save the $validid var in a hidden input. When the form started near the bottom, the hidden input didn't load because that part of the form is in the section for if the form hasn't been submitted. I added the start of the form and the hidden input field near the top and it FINALLY worked.

<https://stackoverflow.com/questions/23851821/setting-file-permissions-in-windows-with-php>

problem I was having was images weren't showing properly, console would have a warning about permissions. What PHP does is upload files to a temp location (C:\windows\temp) and then moves them to the final destination. While moving to the final dest, the permissions are carried over from temp. Adjusted permissions in temp.

setting end date value in edititems

<https://www.richardlord.net/blog/php/dates-in-php-and-mysql.html>

mysql field using datetime. Option 1 doesn't work, opt 2 doesnt work, can't change table to opt.3

console error: specified value does not conform to required format

<https://stackoverflow.com/questions/23157003/from-mysql-to-input-type-datetime-local>

format('Y-m-d\TH:i')

THAT TOOK SO LONG

added a hidden input for the id again. New item doesn't have that and seems to function fine, I really have no clue how

Working on email stuff today. Using just the gmail example from phpmailer didn't work, so I'm going to try the xoauth example they have. Involves another thing to download

<https://github.com/thephpleague/oauth2-google>

<https://developers.google.com/identity/protocols/oauth2/openid-connect#registeringyourapp>

Installed composer (had to comment out extension=mysqli and an smtp line in php.ini)

ran the command from github oauth2 link to install it

entered code from phpmailer example and then went to second link to set up the google stuff with the auctionsite.cnsa email

project name/ID: CNSA266-Final

had to set up a consent screen and then could create the client ID

<https://www.w3jar.com/php-send-emails-using-phpmailer/>

<https://stackoverflow.com/questions/30240014/enabling-ssl-on-localhost-iis>

had to set up ssl on localhost so that I could do the google connect thing, as it wanted https and not http

<https://stackoverflow.com/questions/34264121/why-i-am-getting-fatal-error-uncaught-exception-guzzlehttp-exception-requestex>

set up a task in task scheduler to run the processauctions.php script