Orange County Community College

Computer Science and Technology Department

**CSC 108 – Web Programming 1**

**Laboratory Exercise 1**

1. Log into your Linux instance.
2. Create a directory for your Django project. This could be in your home directory or create a directory of the “/” root directory. If you create a directory of root then make sure “occc” user and “occc” group has read, write and execute permissions.

Where did you create your project directory?

How did you go about doing this?

1. Using your notes chapter 3 as a guide install Django.
2. Which version of python do you have installed?
3. Which version of pip do you have installed? If it was not installed, how did you go about installing python3 pip?
4. Change to your Django project directory as user “occc”
5. Type “python3 -m venv <venv>” The <> means to replace the name with a name of your choosing if you so desire. What was the name of your virtual environment that you choose?
6. Using your notes as a guide how did you activate your python virtual environment?
7. How did your command prompt change?
8. Install Django(make sure your virtual environment is activated)

Type “ python3 -m pip install Django”

1. Which version if Django was installed? How did you check the version?
2. Create your project. Type “Django-admin startproject <name of your project>” Replacing “name of your project” with your own project name. Note you cannot use spaces!!!! Make sure you are in a directory where you want to have your project. It will create a directory for you. Don’t do this in your virtual environment directory, but make sure your env is active.
3. What did you name your project?
4. Creating a project will create a new directory. Change to this directory.
5. Find the directory that has the manage.py file in it. What is the “full” path to this file?
6. Type “python3 manage runserver” What was the output of the command?
7. Open your web browser and navigate to the URL that was displayed during the runserver command.
8. Make sure you have the Django congratulations page up. Take a screen shot of this and attach it to this lab.
9. Using you notes chapter 6 as a guide install your Visual Studio code. It might be already installed so the initial installation might not be necessary. Was VSCode installed?
10. Follow the Notes as a guide and install the extensions that are mentioned in your notes.
11. Make sure your virtual environment is activated and on the command line start Visual Studio Code.
12. Set up your project. “Ctrl + Shift + P”. Which interpreter did you select?
13. Open your project folder. The directory you created to host your Django project.
14. Open your terminal inside your VScode
15. Edit your “/etc/hosts “ file and add an internal domain name for your Django website under 127.0.0.1. What was the URL name?
16. On the command prompt ping this url name. Did you get a reply?
17. Make sure you started your Django “runserver” and navigate to the url you just added in your /etc/hosts file. Nake sure you still have the proper port number in the URL!!!

Did the same page came up as before? If not, what was the page?

1. Using your VScode edit the “settings.py” file and add the domain name you added in your hosts file the “ALLOWED\_HOSTS” directive. Since we are changing the settings.py you might have to restart the Django server for you to get in. Attach a screen shot of the Django welcome page showing that you got there using the URL you created.