**GE02 Django & Virtual Environments Documentation**

**Getting Started**

Here is what we have installed:

* Python (Version 3.11.5) [Can be checked by using py --version]
* Pip (Version 23.2.1) [Can be checked by using pip --version]
* Visual Studio Code
* Git & GitHub Repository

**Installing Django & Setting up a Virtual Environment**

*The commands below were completed on Windows and may be different for Mac, use:* [*https://www.w3schools.com/django/django\_install\_django.php*](https://www.w3schools.com/django/django_install_django.php)

1. Create a personal portfolio folder inside a CS3300 folder.
2. Inside the terminal, make your current working directory the portfolio folder, using the cd command. (*cd path\_to\_portfolio\_folder*)
3. Create a virtual environment by using the command: *py -m venv djvenv.* You should see a new folder in your portfolio named djvenv. This is the virtual directory that you will be using.
4. You must now activate the virtual environment, using the command: *djvenv\Scripts\activate.bat.* After the virtual environment has been activated, you should see *(djvenv) C:\your\_path\_here>* in the command line. Your virtual environment is now in use.
5. To install Django, you must use the command: *py -m pip install Django.* You should see something like this:

*A screen shot of a computer

Description automatically generated*

Django has now been successfully installed within your virtual environment.

1. Use the following command to create a Django Project: *django-admin startproject django\_project.* You should see a new folder titled “django\_project” within your portfolio folder.
2. Next you will want to reorganize your folders. Opening GIT Bash inside of the portfolio folder, preform the following commands:

A screen shot of a computer

Description automatically generated

These commands provided in the guided exploration will rearrange your folders in a more convenient way.

1. Back in the regular terminal, run the command: *py manage.py runserver.* You should see a short blurb mentioning unapplied migrations. Next, use this link: <http://localhost:8000/>

You should see a screen that looks like this:

A rocket with text on it

Description automatically generated with medium confidence

This screen means Django is working.