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SER 401

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**Steps on how to set up a Python Django project on VS Code**

Prerequisites:

1. Download VS Code if you don’t already have it installed from [here](https://code.visualstudio.com/)
2. Download Python if you don’t already have it installed from [here](https://www.python.org/)
3. Install Extensions necessary. (See additional document)

After you have VS Code and Python installed:

1. Create a folder where your project will live.
2. Open the folder within VS Code.
3. Open the terminal within VS Code and create a virtual environment.
   1. A virtual environment isolates your project so that any other installation files or dependencies do not interfere with your project.
   2. To create a virtual environment in the terminal.
      1. First install it by typing in **pip install virtualenv**
      2. To create a virtual environment type in **python -m** **virtualenv <name\_of\_environment>**
      3. Once you do this you should see the name of your virtual environment underneath project root folder name the one below is called djPractice.

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* 1. Now we need to enter the virtual environment
     1. **<name\_of\_environment>\Scripts\activate.bat** (For windows machine)
     2. OR **<name\_of\_environment>\Scripts\activate.ps1** (For windows machine)
     3. **source <name\_of\_environment>\Scripts\activate.bat** (For MacOS)
        1. [MacOS StackOverflow Setup](https://stackoverflow.com/questions/55482197/how-to-correctly-install-python3-and-virtualenv-on-macos-mojave#:~:text=Just%20follow%20as%20below%3A%201%20%24%20pip%20install,the%20command%20would%20be%203%20%24%20source%20myvenv%2Fbin%2Factivate)

Should now be in the virtual environment (ex: (djPractice) as seen below)



* 1. Now we need to install Django. See additional documentation [here](https://www.djangoproject.com/download/)
     1. Type in **pip install Django==4.1.1** (4.1.1 is the latest version).
     2. Should see a successfully installed Django message.

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* 1. Now we need to create a project.
     1. Type in **Django-admin startproject <project\_name>**
     2. Should see it created in the folder structure
     3. 

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* 1. Now enter the directory
     1. Type in **cd <project\_name>**
  2. Every Python Django app has a file which contains all the database tables.
     1. To obtain it, type in **python manage.py migrate**

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* 1. Now we can run our server
     1. Type in **python manage.py runserver**

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* + 1. Our server should now be running at port 8000
  1. You can verify our Python Django server is working by going to the IP and port listed
  2. Graphical user interface, text, website

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