**\*\*\* This guide is done on a Mac with Python version 3.11, Django version 4.2 \*\*\***

cd "/Users/naomirodriguez/Documents/Past UCCS Classes/Spring 2024/CS 3300 Intro to Software Engineering/cs3300"

**Django Portfolio App Set-Up**

**2.1 Create Virtual Environment and Django Project**

Check your python version:

python3 —version



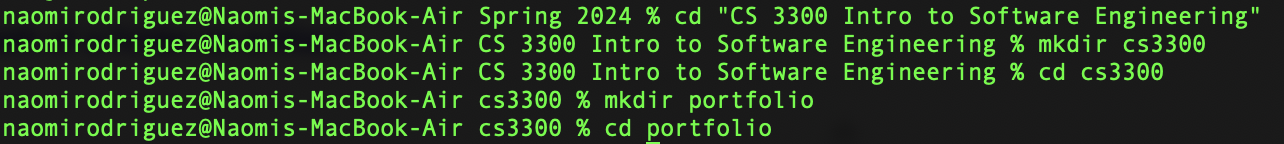
Create a cs3300 and a portfolio folder in your location of choice:

**mkdir cs3300**

**cd cs3300**

**mkdir portfolio**

**cd portfolio**



Create and activate virtual environment:

**python3 -m venv djvenv**

**source djvenv/bin/activate**

Install Django version 4.2 in virtual environment and confirm installation:

**pip install Django==4.2**

**python -m django —version**

A computer screen with green text

Description automatically generated

Upgrade pip:

**python3 -m pip install —upgrade pip**

A computer screen with green text

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Create django project:

**django-admin startproject django\_project**

Reformat the directory:

**mv django\_project/manage.py ./**

**mv django\_project/django\_project**

**rm -r django\_project/django\_project/**

Should go from portfolio -> django\_project, djvenv -> bin, include, etc…

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Run server, ignore migration warnings:

**python manage.py runserver**

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Check to see if installation worked by going to <http://localhost:8000/>

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Open multiple terminal tabs

*\*\* Tip: \*\**

*- On Mac shortcut to open multiple tabs:*

*cmd-t*

*I had to recreate and activate venv:*

***python3 -m venv djvenv***

***source djvenv/bin/activate***

Display packages:

**pip list**

Create a requirements.txt file

**pip freeze > requirements.txt**

A black screen with green text

Description automatically generated

*Our team is using PyCharm, make sure you’ve been approved with your student license so you have full access to PyCharm’s features:* [*https://www.jetbrains.com/community/education/#students*](https://www.jetbrains.com/community/education/#students)

In PyCharm go to File —> Open and open the Portfolio folder we created.

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**2.2 Create Local Git and GitHub Repository**

Go to GitHub and create a repository separate from the team one

Initialize your local directory/folder and add files to repository:

**git init**

**touch .gitignore** Needed otherwise you’ll get a .DS\_Store error

**git add .**

**git commit -m “Initial Commit”**

Commit changes and link local repository to GitHub repository:

**git remote add origin http://github.com/*username/repository***

Push changes:

**git push -u origin main**

**A screenshot of a computer program

Description automatically generated**

**2.3 Create Portfolio App**

Create and switch to new branch called sprint01:

**git branch sprint01**

**git checkout sprint01**

Activate your virtual environment (back in your portfolio folder):

**source djvenv/bin/activate**

**Django-admin startapp portfolio\_app**

PyCharm now has a portfolio\_app section:

A screenshot of a computer

Description automatically generated

Edit settings.py in the Django\_project folder:

A screen shot of a computer code

Description automatically generated

**2.4 Define URI path and view**

Open django\_project/urls.py and add another path to the patterns:

A screen shot of a computer code

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Open and update portfolio\_app/views:

A screen shot of a computer

Description automatically generated

Create a urls.py file in portfolio\_app and add the following:

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Description automatically generated

In your virtual environment,

Run Start server command:

**python manage.py runserver**

A screen shot of a computer program

Description automatically generated

Open [http://127.0.0.1:8000](http://127.0.0.1:8000/) and you should see ‘home page’

A screenshot of a phone

Description automatically generated

Update portfolio\_app/views.py:

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Description automatically generated

Open [http://127.0.0.1:8000](http://127.0.0.1:8000/)

A screenshot of a computer

Description automatically generated

What happened?

* <https://developer.mozilla.org/en-US/docs/Learn/Server-side/Django/Home_page>