

# Setting up CodeDoor

**Note for Windows Users:** Please use Git Bash or some other command line that has unix commands (i.e. use `ls` to list instead of `dir`)

## Clone the repo

1. Make sure you're in a good place (i.e. a CodeBase folder or college folder) and run:

```
git clone https://github.com/codebase-berkeley-mentored-project-sp18/CodeDoor.git
```

## Setup your Virtual Environment

Virtual environments allow you to have different versions of python packages running for different projects. When you are doing any significant project, you should be using a virtual environment.

1. Navigate into the CodeDoor folder – it should just be: `cd CodeDoor`
2. Run: `python -m venv env`
  - a. Depending on your system you might have to replace `python` with what you normally use to run python programs. For Windows users it's typically `py` and Mac users might have to use `python3`
  - b. If you're having problems with this command and have anaconda installed (possibly from EE16A) anaconda is probably causing the problem. I would recommend uninstalling anaconda if you're not currently in a class that requires it. Otherwise google around and try to find a command that will generate the virtual environment with Anaconda.
3. To activate run: `source env/Scripts/activate`
4. To deactivate you can run: `source env/Scripts/deactivate` or just close the terminal, but don't deactivate right now!
  - a. If you're having problems with that command make sure you're in the directory that has `env` in it (i.e. make sure you see `env` when you run `ls`)
5. To make sure your virtual environment is activated you should either see `(env)` next to your path or after you run a command.
6. While your environment is activated run: `pip install -r requirements.txt`  
This is what actually installs Django and a few other packages you'll need.
7. Every time you open a new terminal before you start developing you'll need to run the command in step 3 to activate the environment, but that's it

## Run the Application!

1. Make sure you are navigated to the CodeDoor folder and that your virtual environment is activated. Then run: `python manage.py runserver`
2. Visit `localhost:8000/codedoor/hello` and it should say "Hello Brian"

## Setting Up Your Database

## Download and Install Postgres

1. Go to <https://www.postgresql.org/download/> and pick version corresponding to your os
2. If you're on Windows or Mac then click "Download the installer", if you're on linux follow the commands it tells you to.
3. Pick Postgres 10.1 and specify the os you're running (if requested) and then click to download it
4. Open up the installer and click through it. The defaults should be good for everything. For the password use: Body#513!
  - a. **Make sure you enter this correctly. It is crucial we all use the same local password to make maintenance as easy as possible!**
5. When it asks you if you want to launch Stack Builder you can either select no or just close up stack builder when it comes up. You have completed the install!

## Create a Local Database Server

1. Open up pgAdmin4. It installed with Postgres and is the User Interface to interact with the database. You can find it by either searching your computer or navigating to where you installed postgres – for Windows users the default is C:\Program Files\PostgreSQL\10\pgAdmin 4\bin
2. Click "Add New Server" under quick links in the center of the screen.
3. Under the General tab, for name put: CodedoorLocal and don't change anything else
4. Under connection... for the Host name/address put 127.0.0.1. Leave the other defaults and use Body#513! for your password again. For convenience check save password.

## Connect to the Database in your CodeDoor Application

1. Open up the settings.py file, it's under the codedoor/mysite folder
2. Search for DATABASES (likely either ctrl-f or command-f depending on your os)
3. Find where it says "Use sqlite db just to start but delete from here:" and delete from that line until you reach "to here when you reach that part of the guide" and delete that line as well.
4. Uncomment the code just beneath what you just deleted (to uncomment remove the corresponding triple apostrophes ""')

## Create Superuser and Add Data

1. Run `python manage.py migrate`
2. On your command line with the environment activated and inside the Codedoor directory, run: `python manage.py createsuperuser` – Use development for the username and codebase for the password

3. Run the server again
4. Visit `localhost:8000/admin`
5. Login with credentials you just created
6. Try to add a Dog