

Assignment 1 – Installation Instructions

1. Set Up a Virtual Environment

- Unzip the application into a directory of your choice
- Open a terminal or command prompt and navigate to the root (trump) directory.
- Create a virtual environment called venv:

```
python -m venv venv
```

- Activate the virtual environment.
- On Windows:

```
venv\Scripts\activate
```

- On Linux/ Mac:

```
source venv/bin/activate
```

Here's an example of my command prompt output:

```
C:\Users\Stephen OShaughnessy\trump>python -m venv venv
C:\Users\Stephen OShaughnessy\trump>venv\Scripts\activate
(venv) C:\Users\Stephen OShaughnessy\trump>
```

Note the (venv) – this indicates that you are inside the virtual environment. When you want to exit the virtual environment, simply type **deactivate**.

Permission Error

If you happen to receive a permissions error when attempting to activate the virtual environment in **PowerShell**, then run the following command:

```
Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser
```

2. Install Flask

- This application runs on Python Flask. Flask is a lightweight web framework for Python, designed to help developers build web applications quickly and easily. It is popular for its simplicity and flexibility. The basic structure of a Flask application is:
 - **app.py**: The main file that contains the application logic, routes, and views. Most of your code fixes will be in this file.

- **templates/**: A directory that contains HTML files used for rendering the views (e.g., index.html, login.html). Note: there is a file called base.html, which is the template from which the other pages are based on.
 - **static/**: A directory that contains static files like CSS, JavaScript, and images.
 - **venv/**: The virtual environment directory that contains the Python interpreter and installed packages.
- Run the following command. This will install Flask and SQLAlchemy (for DB connection)

```
pip install Flask Flask-SQLAlchemy
```

3. Run the application

```
python app.py
```

- All going well, you should see something like the following:

```
(venv) C:\Users\Stephen OShaughnessy\trump>python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 127-060-733
```

- If you get errors at this stage, retrace the steps to ensure you have installed as per the instructions.
- You can stop the server by hitting **CTRL-C** and restart the server running the command: **python app.py**.
- You can view the application on: <http://127.0.0.1:5000>.