



ATHENS STATE
UNIVERSITY

New Developer Setup

Hostage Negotiation System

Windows

Installations

Below is a list of tools that need to be installed prior to development. Follow the steps on the download pages or in the associated guides. For some tools, you will need to add them to your Windows PATH environment variable. The installation of the tools may have an option to add the tool path to your Windows PATH; be sure to check.

- Python:
 - Download: <https://www.python.org/downloads/release/python-396/>
 - Guide: <https://docs.python.org/3/using/windows.html#the-full-installer>
- Poetry: <https://python-poetry.org/docs/#installing-with-the-official-installer>
- Docker: <https://docs.docker.com/desktop/install/windows-install/>
- Node.js:
 - Download: <https://nodejs.org/en/>
 - Guide: <https://kinsta.com/blog/how-to-install-node-js/>

Linux

Installations – Debian/Ubuntu

Run the following commands for Debian based Linux systems:

```
sudo apt update  
  
sudo apt install nodejs  
  
sudo apt install npm  
  
sudo apt install python  
  
curl -sSL https://install.python-poetry.org | python -
```

This will install NodeJS, npm, python, and poetry.

To install Docker, it is recommended that you download and install the *.deb package from the Docker website and follow the instructions provided.

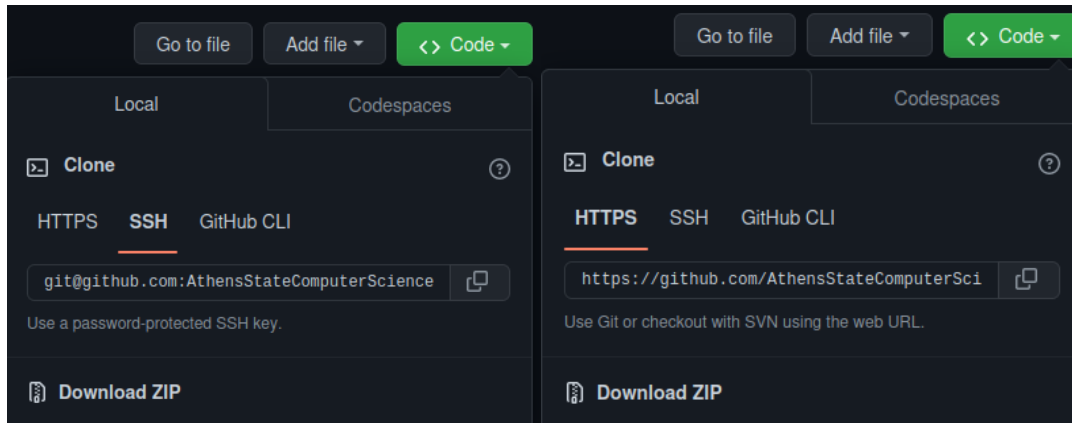
- Docker (Debian): <https://docs.docker.com/desktop/install/debian/>
- Docker (Ubuntu): <https://docs.docker.com/desktop/install/ubuntu/>

Cloning Repository

To clone the repository, navigate in a web browser to the GitHub page hosting the repository. Once there, click the green “Code” dropdown button to open the cloning options.



The dropdown menu will give you two main options to clone: HTTPS and SSH. SSH is preferred but requires a bit of extra setup not covered in this document. You can follow GitHub’s documentation on SSH setup here: <https://docs.github.com/en/authentication/connecting-to-github-with-ssh>



Copy the text and open a new terminal. Navigate in the terminal to your desired directory where you want the code to be. Once there, enter the following command:

```
git clone <copied text>
```

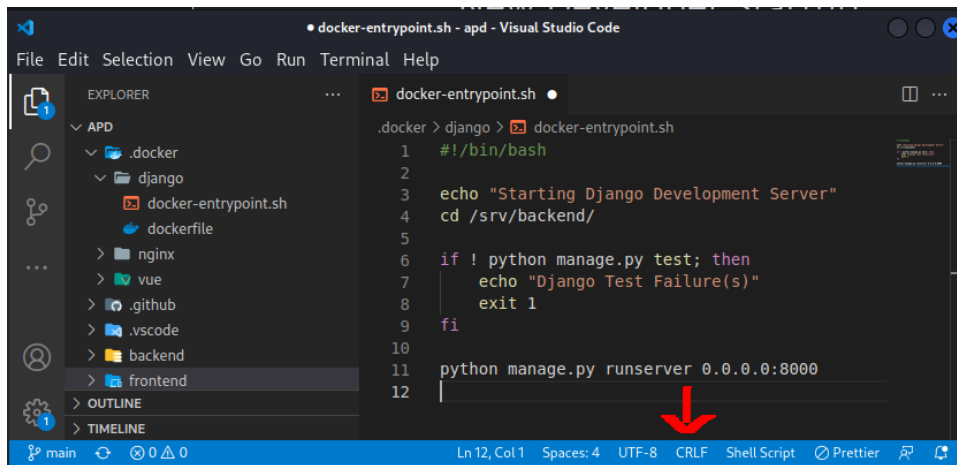
Once finished, you will now have the cloned repository for the APD (Athens Police Department) application.

Note – Git on Windows

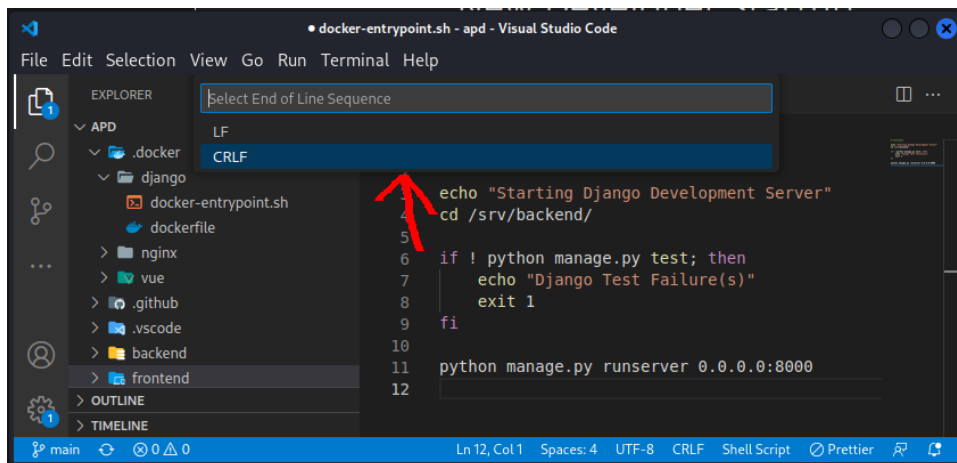
There is a file that needs to be corrected before proceeding. On Windows, when you pull in code with git, it will convert new line characters in the files to Windows styles “CRLF.” This poses a problem for one of the files as it is a Unix-specific file used in one of the Docker containers.

This file needs to be updated to have “LF” new line characters. This can be done by opening VSCode and loading the APD project. Once loaded, open the folder tree for “.docker/django.” Inside this folder is the file “docker-entrypoint.sh,” which is the file that needs to be updated; open it in the editor.

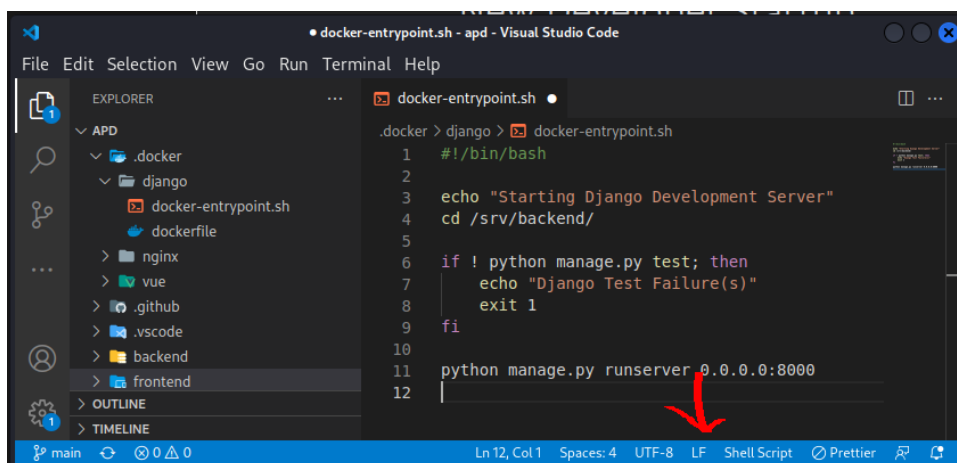
In the bottom right corner of VSCode is the status text. Click on the text labeled “CRLF.”



A dropdown menu should appear with two options: CRLF and LF. Select LF from the list.



Confirm that it has been changed by checking the “LF” has replaced “CRLF” in the status text.



Save the file and then that is it, you are done. Easy peasy. You can move on to the building section of this document to continue.

Building

It is recommended that you use the command prompt for building the application. If you are using Windows, please use the “Run as administrator” option to ensure success.

Frontend

From the root directory of the repository, apd, run the following commands

```
cd frontend
```

```
npm install --quiet
```

This will install all the packages required into the node_module folder.

Backend

From the root directory of the repository, apd, run the following commands

```
cd backend
```

```
poetry install
```

```
poetry export -f requirements.txt --output requirements.txt
```

```
poetry run python manage.py migrate
```

```
poetry run python manage.py collectstatic --noinput
```

```
poetry run python manage.py createsuperuser
```

The last command will run through creating a super user account. Input the Username, Email, and Password for the user. Once the command is complete, a link will be given in the output. You will be unable to use it right now, but you will need it soon.

It is recommended that you copy the link into a text file for safe keeping until the application is working as expected. This way, if you reuse the terminal or close it, you can still easily retrieve the link.

Running – Docker

It is recommended for Windows users to run the Docker Desktop application with the option “Run as administrator” to ensure success.

Wait until the Docker Engine is running before proceeding.

The first time that you start the APD application, you will need to use the command prompt. After that, you can choose to use the Docker Desktop application to start the APD application containers or use the command prompt.

From the root directory of the repository, run the following command

```
docker-compose up
```

Alternatively, if the last command does not work, you may have to run the following command instead

```
docker compose up
```

without the hyphen between docker and compose. The second option will be for Linux users. Otherwise, the first command should work.

Wait a moment for everything to spin up. You should see some logs being generated in the terminal. A good sign that everything is running smoothly is if you see similar of the following logs:

```
DJANGO | Starting Django Development Server
```

```
VUE | > frontend@0.1.0 serve
```

```
VUE | > vue-cli-service serve
```

```
Build finished at 02:13:51 by 0.000s
```

If everything has worked correctly, you should be able to navigate in a web browser by entering “localhost” into the address bar.

If you get a login screen, then good news!

Now, copy the link that you received from the `createsuperuser` command and input that into the browser address bar. This should take you to a login page where you will enter the credentials you setup through the command. Once you login, it should ask you to change the current password.