**Installing dependencies on Ubuntu.**

Run the following commands in the Ubuntu terminal.

Graphical user interface, text

Description automatically generated with medium confidence

1. sudo apt update
2. sudo apt upgrade
3. check the python version using python3 –version. Make sure it is above 3.8
4. sudo apt install python3-pip
5. pip install web3
6. pip install py-solc-x
7. run the following code in python terminal (type python3 in normal terminal):

>>>from solcx import install\_solc

>>>install\_solc(version = '0.8.7')

1. add .local/bin directory to path by adding the highlighted line below to .bashrc file, here username will be your username

export PATH="/home/username/.local/bin:$PATH"

1. To install the Bitcoin wallet app type in the following: pip install bit
2. Install python-dotenv: pip install python-dotenv
3. Next we install Node.js to get the npm package manager, to use Chainlink and OpenZeppelin

sudo apt install nodejs

sudo apt install npm

1. Next we get the Chainlink and OpenZeppelin packages. Open a terminal in home directory.

npm install @chainlink/contracts --save

npm install @openzeppelin/contracts

**Note**: to use the above contracts with py-solc-x with the “compile\_source” function you have to add additional paths of the imported files which can be a list of strings containing the file paths using the keyword argument “allow\_paths=”.

1. We install Ganache-CLI so we can switch between GUI/CLI versions:

sudo npm install yarn

sudo yarn global add ganache

1. Download Ganache Blockchain and save it to EVCS folder. Link: <https://www.trufflesuite.com/ganache>

Right click on the ganache.AppImage and check the box to allow execution under permissions. A screenshot of a video game

Description automatically generated

1. We need to install brownie too: start by installing pipx using the following:

python3 -m pip install --user pipx

python3 -m pipx ensurepath

1. We might need to install venv as well so do the following:

sudo apt install python3-venv

1. Finally we install brownie:

pipx install eth-brownie