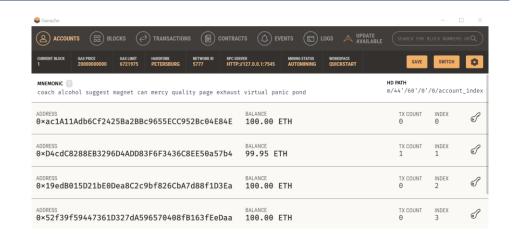


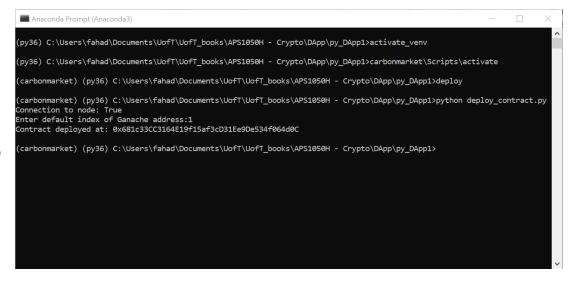
WHAT YOU WILL NEED TO RUN THE PROOF-OF-CONCEPT DAPP

- Ganache personal Ethereum blockchain with a few accounts loaded with fake ether
- Anaconda and Python 3.6+ with Flask
- Internet browser such as Chrome

STEP I: DEPLOYING THE SMART CONTRACT

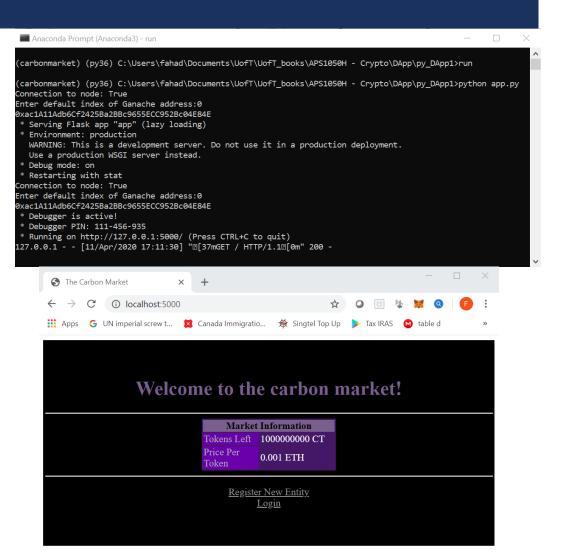
- Run Ganache application to host a local blockchain with 10 addresses loaded with 100 fake ether each
- Run Anaconda prompt and navigate to the directory where app.py is located
- OPTIONAL: create and activate a new environment with python 3.6+ installed
- Activate virtual environment by simply running activate_venv.bat
- 5. Run deploy.bat
- 6. Enter the Ganache address index that you would like to use to deploy the smart contract; note that this address will become the address of the carbon market authority for the entire life of the smart contract





STEP 2: RUNNING THE DAPP

- 1. Run run.bat or use the commands python app.py
- 2. Enter the Ganache address index with which you want to interact with the smart contract; if you choose the address used earlier to deploy the contract, you will be accessing the system as the government authority
- 3. Open a browser and visit http://localhost:5000/ and you are done
- 4. If you would like to switch to a different account, then go back to the anaconda prompt, stop the application by Ctrl+C and re-run **run.bat** and enter a different Ganache address index



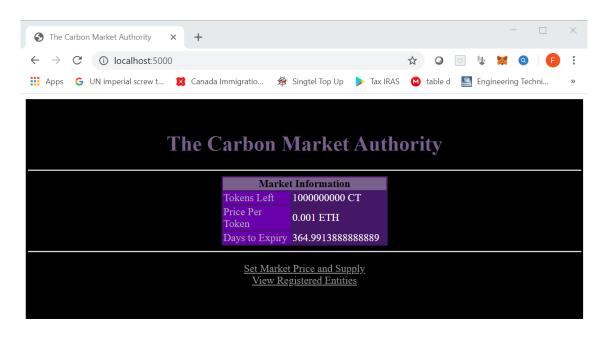
CARBON MARKET DAPP

SOME SCREENSHOTS OF THE APPLICATION

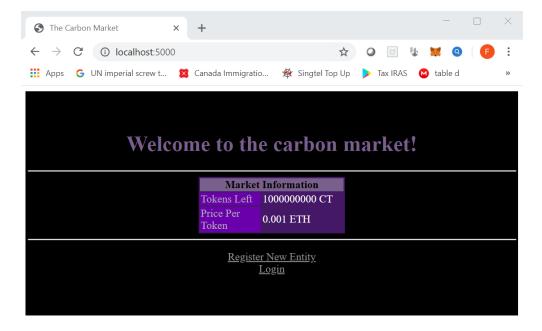


LANDING PAGE

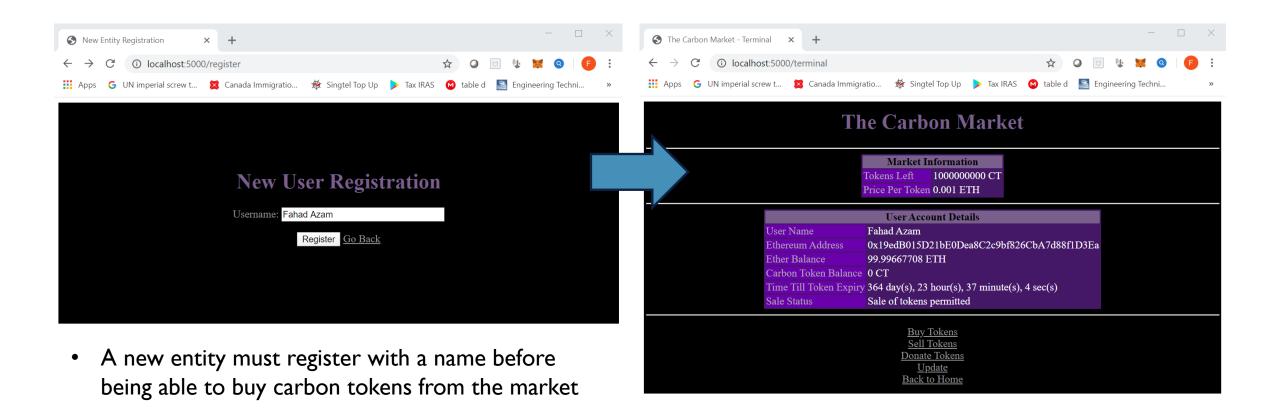
Government Entity



Regular User



NEW ENTITY REGISTRATION – REGULAR USER



LIST OF REGISTERED ENTITIES – GOVERNMENT AUTHORITY

