To be able to run the contract, the user of the notebook must have the following:

* A **virtual python 3.6 environment** with:

web3==5.4.0

pandas==0.25.3

ipython==7.10.1

ipython-genutils==0.2.0

*As well as all standard libraries and the required libraries for the aforementioned packages.*

* Latest version of **Ganache**

*The user will also need to change the Ganache host server address (****string****) and main wallet address (****string****) to theirs if necessary.*

* **Solidity version 0.4.25**
* **Node.js v12.13.1**
* **Jupyter Notebook**

jupyter==1.0.0

jupyter-client==5.3.4

jupyter-console==6.0.0

jupyter-core==4.6.1

* **Both abi.json** and **bytecode.json** files provided in the github.

*Disclaimer:*

*As this project was made over multiple days/weeks with countless compatibility problems, the authors of this document might have forgotten some necessary software or packages. Here is the full list of packages in the environment (****Note some of them were not used in final version****)*

*aniso8601==8.0.0*

*attrdict==2.0.1*

*attrs==19.3.0*

*backcall==0.1.0*

*base58==1.0.3*

*bleach==3.1.0*

*certifi==2019.11.28*

*chardet==3.0.4*

*Click==7.0*

*colorama==0.4.3*

*cytoolz==0.10.1*

*decorator==4.4.1*

*defusedxml==0.6.0*

*entrypoints==0.3*

*eth-abi==2.0.0*

*eth-account==0.4.0*

*eth-hash==0.2.0*

*eth-keyfile==0.5.1*

*eth-keys==0.2.4*

*eth-rlp==0.1.2*

*eth-typing==2.2.1*

*eth-utils==1.8.4*

*Flask==1.1.1*

*flask-marshmallow==0.10.1*

*Flask-RESTful==0.3.7*

*future==0.18.2*

*hexbytes==0.2.0*

*idna==2.8*

*importlib-metadata==1.2.0*

*Interface==2.11.1*

*ipfshttpclient==0.4.12*

*ipykernel==5.1.3*

*ipython==7.10.1*

*ipython-genutils==0.2.0*

*ipywidgets==7.5.1*

*itsdangerous==1.1.0*

*jedi==0.15.1*

*Jinja2==2.10.3*

*jsonschema==3.2.0*

*jupyter==1.0.0*

*jupyter-client==5.3.4*

*jupyter-console==6.0.0*

*jupyter-core==4.6.1*

*lru-dict==1.1.6*

*MarkupSafe==1.1.1*

*marshmallow==3.3.0*

*mistune==0.8.4*

*more-itertools==8.0.2*

*multiaddr==0.0.8*

*mypy-extensions==0.4.3*

*nbconvert==5.6.1*

*nbformat==4.4.0*

*netaddr==0.7.19*

*notebook==6.0.2*

*numpy==1.17.4*

*pandas==0.25.3*

*pandocfilters==1.4.2*

*parsimonious==0.8.1*

*parso==0.5.1*

*pickleshare==0.7.5*

*prometheus-client==0.7.1*

*prompt-toolkit==2.0.10*

*protobuf==3.11.1*

*pure-interface==3.5.2*

*py-solc-x==0.6.0*

*PyContracts==1.8.12*

*pycryptodome==3.9.4*

*Pygments==2.5.2*

*pyparsing==2.4.5*

*pypiwin32==223*

*pyrsistent==0.15.6*

*python-dateutil==2.8.1*

*python-interface==1.5.3*

*pytz==2019.3*

*pywin32==227*

*pywinpty==0.5.7*

*pyzmq==18.1.1*

*qtconsole==4.6.0*

*requests==2.22.0*

*requests-cache==0.5.2*

*rlp==1.2.0*

*semantic-version==2.8.3*

*Send2Trash==1.5.0*

*six==1.13.0*

*solc==0.0.4*

*terminado==0.8.3*

*testpath==0.4.4*

*toolz==0.10.0*

*tornado==6.0.3*

*traitlets==4.3.3*

*typing==3.7.4.1*

*typing-extensions==3.7.4.1*

*urllib3==1.25.7*

*varint==1.0.2*

*wcwidth==0.1.7*

*web3==5.4.0*

*webencodings==0.5.1*

*websockets==8.1*

*Werkzeug==0.16.0*

*widgetsnbextension==3.5.1*

*zipp==0.6.0*

*zope.event==4.4*

*zope.interface==4.7.1*

*zope.schema==4.9.3*