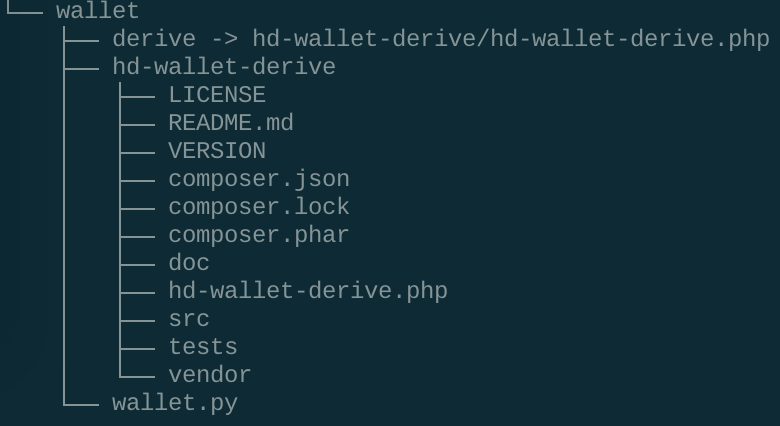
1. Background
   1. Your new startup is focusing on building a portfolio management system that supports not only traditional assets like gold, silver, stocks, etc, but crypto-assets as well! The problem is, there are so many coins out there! It's a good thing you understand how HD wallets work, since you'll need to build out a system that can create them.
   2. You're in a race to get to the market. There aren't as many tools available in Python for this sort of thing, yet. Thankfully, you've found a command line tool, hd-wallet-derive that supports not only BIP32, BIP39, and BIP44, but also supports non-standard derivation paths for the most popular wallets out there today! However, you need to integrate the script into your backend with your dear old friend, Python.
   3. Once you've integrated this "universal" wallet, you can begin to manage billions of addresses across 300+ coins, giving you a serious edge against the competition.
2. Dependencies
   1. PHP must be installed on your operating system
   2. We have to clone the [hd-wallet-derive](https://github.com/dan-da/hd-wallet-derive) tool
   3. [bit](https://ofek.github.io/bit/) Python Bitcoin library
   4. [web3.py](https://github.com/ethereum/web3.py) Python Ethereum library
3. Set-up
   1. Create a project directory called wallet and cd into it.
   2. Clone the hd-wallet-derive tool into this folder and install it using the [HD Wallet Derive Installation Guide](applewebdata://9ED805FF-3087-475A-BB1F-90A276D4E6FE/NU-Coding-Bootcamp/nu-chi-fin-pt-07-2021-u-c/-/blob/master/02-Homework/19-Blockchain-Python/Instructions/Resources/HD_Wallet_Derive_Install_Guide.md)
   3. Create a symlink called derive for the hd-wallet-derive/hd-wallet-derive.php script. This will clean up the command needed to run the script in our code, as we can call ./derive instead of ./hd-wallet-derive/hd-wallet-derive.php:
   4. Make sure you are in the top level project directory - in this case the directory named wallet. Run the following command: ln -s hd-wallet-derive/hd-wallet-derive.php derive. Test that you can run the ./derive script properly, by running the following command.
      1. ./derive --key=xprv9zbB6Xchu2zRkf6jSEnH9vuy7tpBuq2njDRr9efSGBXSYr1QtN8QHRur28QLQvKRqFThCxopdS1UD61a5q6jGyuJPGLDV9XfYHQto72DAE8 --cols=path,address --coin=ZEC --numderive=3 -g
      2. Output should be:

Table

Description automatically generated

Create a file called wallet.py -- this will be your universal wallet script. You can use [this starter code](file:////NU-Coding-Bootcamp/nu-chi-fin-pt-07-2021-u-c/-/blob/master/02-Homework/19-Blockchain-Python/Instructions/Starter-Code/wallet.py) as a starting point.

Your directory tree should look something like this:



1. Setup Constants
   1. In a separate file, constants.py, set the following constants:

* BTC = 'btc'
* ETH = 'eth'
* BTCTEST = 'btc-test'
  1. In wallet.py, import all constants: from constants import \*
  2. Use these anytime you reference these strings, both in function calls, and in setting object keys

1. Generate a mnemonic
   1. Generate a new 12 word mnemonic using hd-wallet-derive or by using [this tool](https://iancoleman.io/bip39/).
   2. Set this mnemonic as an environment variable, and include the one you generated as a fallback using:mnemonic = os.getenv('MNEMONIC', 'insert mnemonic here')
2. Deriving a wallet
   1. Pass as variables Mnemonic (--mnemonic), Coin (--coin) and Numderive (--numderive), then set the --format=json flag, parse the output into a JSON object using json.loads(output).And finally pass all into one function, called 'derive\_wallets'.
   2. When done properly, the final object should look something like this (there are only 3 children each in this image):

![Text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAAAAAAAD/4RCyRXhpZgAATU0AKgAAAAgAAodpAAQAAAABAAAIMuocAAcAAAgMAAAAJgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCAkAQAAgAAABQAABCUkpEAAgAAAAM1NwAAkpIAAgAAAAM1NwAA6hwABwAACAwAAAh0AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTAAAAAMBgEHAAA0AAADAASAAADDLSGaNUevMCGdj+NzKOj5CrOwIs2KmzVAiROCqkHa/DFH5gsMlyyhU9gP/wxYJLYNR4DgbAABXOLMFh+IN/hjlFmB86AjDXL0X/DlD68pzmCBL4b84QEqdMwQH/hjYmAyhKcVOAAtRLsGxaDQL4KNgdMwAG8RZGF+N4J2wJXPmDuGiYOynctD5kUJwC0I5r43zB3opxLhPi6juNB2FS/h/hpNT4AmSAKBFDDoFcNcM8+sKNQTfhjKCAsFTxsbElTsBnF+1H+ev5tg18EHt7AvYuWUgmBA89/1i/WL8K65Qg9b/rw5sDJJAzIXnO7P8P9TSokiLLX+YTP2UFeG6WZj4ds0kaWgh4Q7Xijhf1vEswZYL/DOYLwPh2Avo/4VlQvEuL18Ez694fy+FaQ6TfQEMjVxYagUB9l/CuhnGGwGS2BsCy0CJOBziFwjggNP4JbvcpIpotMl+FbM12ATCCQdgC0glj4+Gr/D2iHgKArGW0HShAWtbUxFeO9hX/G8cA9SQAvWEwkRa54BgPeGFpjDe55kaDgegqOPvKfhuND0cTzDQ12D5xeDHw15sWwL/4eoH+wKo2JHskRIdA2B7Xwv2CjIw/6stglMIJGXqfjeOBLbeQQlJw/Sf9HpS5w3S2TA/8bGQl10Y0IWjgD/GHFs9gH1a9AeNhq+HvCHHzB0jiVBMBoeVs4toCaMOH0Rz8b0NAPQ0INw6dwAH56DaY8LBojkUBSDX+N5SXttA3QGizF1HhjDllcBIvjegakEsIbCuWlA8iteLnxzYoPGgU/8b8dOtgI9wE8pX19QP2nQNH8L+gI7H6oGEDllsCxoVlWOBDfG9jRZB9gJn6Jo4Qlymvt4dgtBfjejYfMY2MYC12BIBDBytnh9Fs2wgH/G8bCyqABtoYCMi2gtwX4AkM4AKw8m/YCgSA2AqP42yxcwraQDn4agKVpTBiVSMkwuHp0B/G8JXH1XoaAoWhJmj3TFx4PvAdAcabqC+N5XlDWQKFEBOCdmQMKbFCmAqQ2i74AjhgoDUjEmBqDa/4IOwCwLXivWlWgOvGSAFbDXicVAtYwJ3+H6RBic7QFIiDMpcJHQHX7y2wJCBl4ay+PtC/Ip/jcgQB2BoSUbAo6Apn+vuwQyIydeo+N2bVojpRgEznabDH9KXsEobho3A2lQFEwu0IC9V8btgsPL/lBOALARMDPeAGdhnICAWo2Q8Uv+N3a9Ae7AmDF0YXAGQEA7lnQNgofJL4YoDDaSA4NDpega9LlCB/DnPSvS/4Y8YAxMGBWFXkNt5kiP4Y0AhkAGgMisofvXQGHs1sX8O7BjQI2NgRW+njI67BAdUbTQb0P+HZ0AyWjUAmjOiQFjwHWqZflD0H/Cvp0B6xoHmLNfwryAfcAqtbC7Af96+vDWGUtV1s/DfY/wr2H7RDrdLp1fwr4evBGEXsfeH5E6wFX0ENFZ5bwYiQMYRAliQYCAIAgK7KbqGMQanGfxg5bsAZQAHix0sHz9XwaFkt8q++A2QHHMA960gUAwVfgUsPff/f4BwOWx1FmPA2qYH5RI/31/w4oeAJjmOQ5I90JhcabCAAtkL2iJ1iF6JZPUx0ZqGew1JQlv/hWmEzuMAMZs0aF+/q/llgG02JWp37qvwY+F8t/deEmE4sOQW+N+gEwDGgwHjbm19HihiTcwMfwVAnqf43Bjop2BU4AbH2NA+YIpTAHoDYNVpmBPxtAzpJilL48CV0BUiQFsDMSz+NkCZGMfucA0D3KCwCVvtHav+qAkEwjQQKf42uFiuG9wJWlpCAhbxb30fhxd7wYwMb9BMtkgM458b8PoWRwg0CeNMGwQUMtJDvEiGeqOKgOgNgkIodYpr+NoZA2xS4C9h2BovpMBNs0A0dVAzq/h3oKYQL8dRZwxsJ1AqGwFIPpwB/jY+ADweG0OF9g+iOZzmRwvnabDbYH/w/pY0J1gmHVwn+gGrB7AziqHSOGfhjnp7AS8iTQNBfDnj4jrjBc+l+GPWQA7A0CXCTB7h9r4Y5n9jrsBN8wW+GOwF4wE1KPIkx0tP4Y7aeOCuXjgcPDjsfDHoC9JeAaAXlVfDHMwYIDkSV0Bf+GPOIDkN16FyJPi/ZbF+HOWZEpU4ZQxHnSMD+G+yr/Q/hjlAAoB8gTXQjHeQa+GOyT5iS6fKr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1. Linking the transaction libraries
   1. **BTCTest transaction**
   2. ```btc\_acc = priv\_key\_to\_account(BTCTEST,btc\_PrivateKey) ``` ```create\_trx(BTCTEST,btc\_acc,"miZgMxdGzSxCTpWazfD2KqhewoUvcQ6CC1", 0.1)``` ```send\_trx(BTCTEST,btc\_acc,'miZgMxdGzSxCTpWazfD2KqhewoUvcQ6CC1',0.1)```
   3. Confirmation of Executed Transaction
2. Graphical user interface, text, application, email, Teams

   Description automatically generated
   1. **ETH transaction - using local private blockchain**
      1. ```eth\_acc = priv\_key\_to\_account(ETH,eth\_PrivateKey) ```
      2. ```create\_trx(ETH,eth\_acc,"0xba51af165c60A32B3d23Df9B332b4A86cED4A1B9", 1000)```
      3. ```send\_trx(ETH, eth\_acc,"0xba51af165c60A32B3d23Df9B332b4A86cED4A1B9", 1000)```
3. Graphical user interface, application, Teams

   Description automatically generated