Create your own Private Ethereum Blockchain in five steps for setting up your blockchain development environment

1.
Download and install the Ethereum Wallet, Mist browser and Geth
https://github.com/ethereum/mist/releases

2.
Create the folder *Workspace/ethereum in your $HOME.*

3.
Edit the file $HOME/.profile. Add below two lines to the file.

export PATH*="$HOME/Library/Application Support/Ethereum Wallet/binaries/Geth/unpacked:$PATH"*
export ETH_HOME*="$HOME/Workspace/ethereum"*

Open a terminal and run below command.
. $HOME/.profile

4.
In the same terminal run below command.
geth --dev --datadir $ETH_HOME/data --ipcpath $HOME/Library/Ethereum/geth.ipc console 2>>console.log

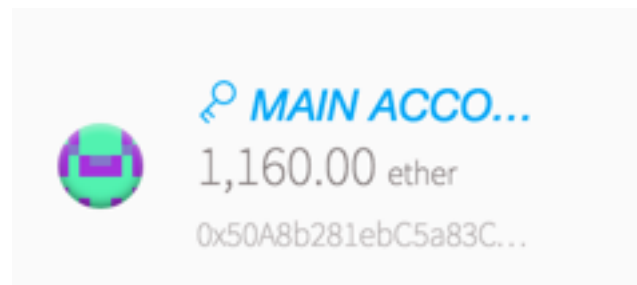Congratulations! You successfully created a Private Ethereum blockchain.

5.
Run below commands at the geth command prompt one at a time. When you started mining, wait for few minutes to get some test Ether mined.

> personal.newAccount()

> *eth.blockNumber*
> *eth.getBalance(personal.listAccounts[0])*
> *miner.start(1)*
> *eth.blockNumber*
> *web3.fromWei(eth.getBalance(personal.listAccounts[0]))*
> *miner.stop()*
> *exit*

Launch Ethereum Mist from your applications. You will see your main account and mined Ether.

How to Delete custom contracts:

In the Ethereum Wallet (Mist) menu, click on Develop -> Toggle Developer Tools -> Wallet UI. Click on the Console tab. Enter *CustomContracts.find().fetch()* in the console, finding the _id of the Custom Contract(click the arrow next to object until you find the one you want to delete), then enter the command *CustomContracts.remove("your Custom Contract _id").*

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         Elements  Console  Sources  Network  Timeline  Profiles  »      ⊗1  ⋮  ×

  ⊘  ▽   top                              ▼   ☐ Preserve log

  ⊗ Failed to load resource:                    file:///sockjs/info?cb=_sqife36py
    net::ERR_FILE_NOT_FOUND

     Connect to node... @                              consoleLogCapture.js:44
     file:///Applications/Ethereum%20Wallet.app/Contents/Resources/app.asar/inter
     face/wallet/b8ae1851f0c039465d7a3b0a65cbe74372ca629c.js:247:13421)

     startNode: 71.994ms                                   b8ae185….js:247

     EVENT LOG:   ▶ Arguments[2] @                    consoleLogCapture.js:44
     file:///Applications/Ethereum%20Wallet.app/Contents/Resources/app.asar/inter
     face/wallet/b8ae1851f0c039465d7a3b0a65cbe74372ca629c.js:248:4647)

     EVENT LOG:   ▶ Arguments[2] @                    consoleLogCapture.js:44
     file:///Applications/Ethereum%20Wallet.app/Contents/Resources/app.asar/inter
     face/wallet/b8ae1851f0c039465d7a3b0a65cbe74372ca629c.js:248:4647)

  > CustomContracts.find().fetch()
  ⟵ [▼Object ℹ                                     , ▶Object]
        _id: "TNfiNrGvmJyveZWar"
        address: "0x624b72621d31823c738d5fac873fd9d1a0515ccb"
        balance: "0"
      ▶ jsonInterface: Array[11]
        name: "EITO Token (admin page)"
      ▶ __proto__: Object

  > CustomContracts.find().fetch()
  ⟵ [▼Object ℹ                                     ,
        _id: "TNfiNrGvmJyveZWar"
        address: "0x624b72621d31823c738d5fac873fd9d1a0515ccb"
        balance: "0"
      ▶ jsonInterface: Array[11]
        name: "EITO Token (admin page)"
      ▶ __proto__: Object
    ▼Object ℹ                                      ]
        _id: "XzYaEH4yP4w2ieNH7"
        address: "0x2aebdae696e3a810dd131630278e1a8c03d56847"
        balance: "5000000000000000000"
        checkpointBlock: 2801
      ▶ contractEvents: Array[2]
      ▶ jsonInterface: Array[22]
        name: "EITO Token ICO"
      ▶ __proto__: Object

  > CustomContracts.remove("TNfiNrGvmJyveZWar")
  ⟵ 1
  > CustomContracts.remove("XzYaEH4yP4w2ieNH7")
  ⟵ 1
  >
```