Crypto Wallet Exploration

Date: 05:09:2021

Name: Anuhya Gandavaram

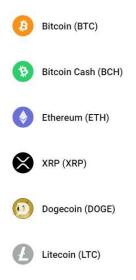
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The wallets selected for this assignment are as below.

Desktop Wallet: BitPay
 Web Wallet: kraken
 Mobile Wallet: BitPie

Desktop Wallet

• BitPay is a Desktop wallet that supports various cryptocurrencies as shown below.



- Though the application **supports testnet**, it by default creates wallets for mainnet.
- We can use the testnet toggle button to create one for testing.

Testnet



• I've created an account for ripple on the testnet. It is observed that the account requires the user to maintain a minimum balance of 20 XRP.



XRP Minimum Balance

The XRP ledger requires that all wallets maintain a minimum balance of 20 XRP. This non-refundable 20 XRP will remain permanently locked in your wallet. Please first deposit no less than 20 XRP to activate your wallet.

 The account is not activated until an initial deposit of 20XRP is made and the same can be observed as a tag





- Now, we see only one tag that says testnet.
- We activate the wallet by requesting 20 ripple from a faucet https://testnet.help/en/xrpfaucet/testnet#log. The transaction is recorded below.

CDF823414B522D13	89FE31AE88302F7FAD159576F6571DEA9A276564526DAC6C				
The transaction wa	s successful and validated in the ledger #20733024 (index: 0).				
Type:	Payment				
Time (UTC):	2021-09-05 06:49:13				
Source:	rp72UNyvA4i2FikMVnYAdNE2FA3caDtZ4Z				
Sequence:	#20293818				
Destination:	rUqR2k4HeRgsh4nXDNArxaShiTgoH8tLpT				
Delivered amount:	20 XRP				
XRPL fee:	0.000012 XRP (12 drops)				
Memos:					
Comments:	show				
TX json:	show				

• Once the transaction is complete, we see an activated tag added to our account.





- We only see an activated tag added but do not see any transactions relating to the 20XRP.
- However, when we receive the bitcoins, we will be able to see it in the transactions of our wallet.

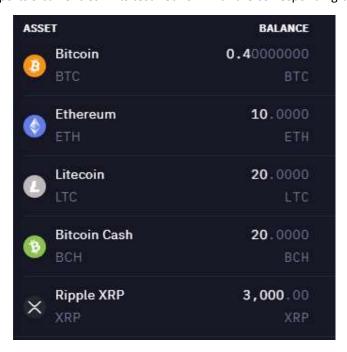
D.0001 BTC Test Only - No Value TESTNET SEGWIT Receive Send Recent Received 0.0001 BTC 9 hours ago

Web Wallet

• **Kraken** is a web wallet that supports various cryptocurrencies.

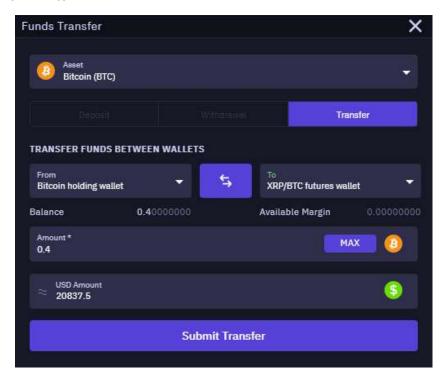


- This application is by default for mainnet and lets us create accounts.
- If we want to test and play around with some test currency, this application provides us credentials for test network.
- As we sign up, we get our login credentials as well as some test currencies allocated on start up.
- Kraken supports 5 currencies in its test network with the corresponding balance allotted.



- We can use the transfer feature to send funds across wallets and understand compatibilities.
- Compatibilities are as below
 - o BTC to BTC or XRP

- o ETH to ETH
- o LTC to LTC
- o BCH to BCH
- o XRP to XRP

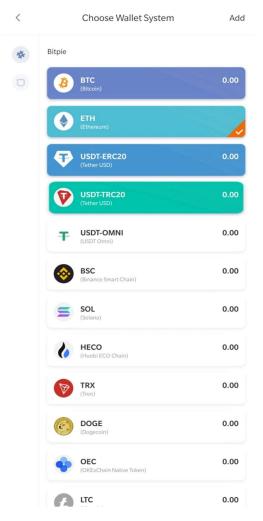


- Disadvantages are that we cannot make actual transactions that are recorded on the blockchain.
- However, all the transactions made are recoded in the transaction log

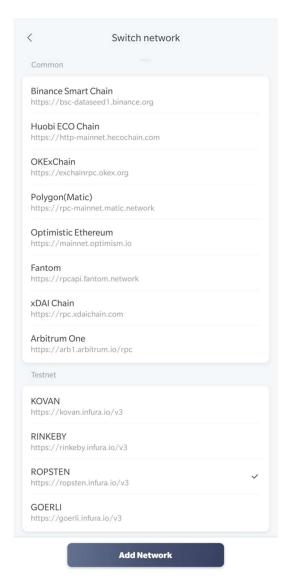
	4.6					
DATE		ACCOUNT	TYPE	SYMBOL	CHANGE	NEW BALANCE
07/Sep/2021	00:12:28	F-ETH:USD	Transfer	ETH	10.0000	10.0000
07/Sep/2021	00:12:28	ETH	Transfer	ETH	-10.0000	0.0000
07/Sep/2021	00:12:19	F-LTC:USD	Transfer	LTC	20.0000	20.0000
07/Sep/2021	00:12:19	LTC	Transfer	LTC	-20.0000	0.0000
07/Sep/2021	00:12:15	F-BCH:USD	Transfer	всн	20.0000	20.0000
07/Sep/2021	00:12:15	всн	Transfer	всн	-20.0000	0.0000
07/Sep/2021	00:12:11	F-XRP:USD	Transfer	XRP	3,000.00	3,000.00
07/Sep/2021	00:12:11	XRP	Transfer	XRP		
07/Sep/2021	00:11:43	F-BTC:USD	Transfer	втс	0.40000000	0.40000000
07/Sep/2021	00:11:43	F-XRP:BTC	Transfer	втс	-0.40000000	0.00000000
07/Sep/2021	00:11:16	F-XRP:BTC	Transfer	втс	0.40000000	0.40000000
07/Sep/2021	00:11:16	втс	Transfer	втс	-0.40000000	0.00000000
07/Sep/2021	00:02:10	LTC	Admin Transfer	LTC	20.0000	20.0000
07/Sep/2021	00:02:10	ETH	Admin Transfer	ETH	10.0000	10.0000
07/Sep/2021	00:02:10	втс	Admin Transfer	втс	0.40000000	0.40000000

Mobile Wallet

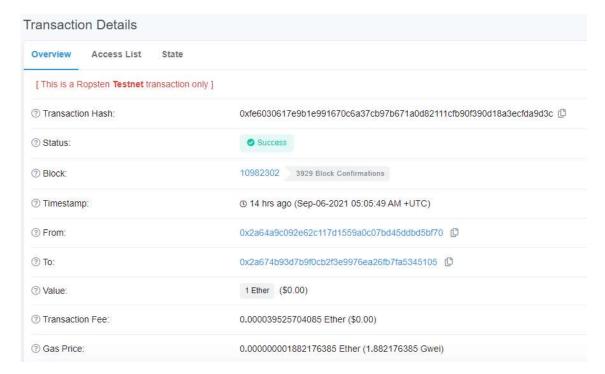
- **BitPie** is a mobile wallet for cryptocurrency.
- It supports Mainnet and testnet for several cryptocurrencies.



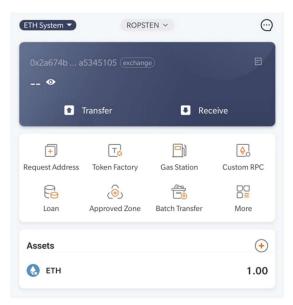
• As per the above screen shot, Ethereum is the chosen wallet and it has various networks to choose from under it.



- Ropsten is the chosen network and we request test coins from the faucet.
- The transaction details are as below.



Once the transaction is confirmed we can see the amount reflected in our application.



- Disadvantages with the application is that it does not support testnet for all the systems. For now, supported only for Ethereum.
- Another drawback is that it does not have the option of viewing transactions on the app yet.