



Activities Terminal Sun 03:30

stylo@stylo-OMEN: ~/POS-BlockChain

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stylo@stylo-OMEN:~/POS-BlockChain\$ go run p2p_blockchain.go -l 8001 -d /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQQdERw4XSvILQ5jdbuD3Lta -secio

(main.Block) {
Index: (int) 0,
Timestamp: (string) (len=54) "2020-11-29 03:29:45.845274712 +0530 IST m=+0.002278527",
UserId: (int) 0,
Balance: (int) 0,
Type: (main.TransactionType) (len=4) "NONE",
Amount: (int) 0,
Hash: (string) "",
PrevHash: (string) ""
}

2020/11/29 03:29:45 I am /ip4/127.0.0.1/tcp/8001/p2p/QmfVnDV4VRZJ9ZscEJAQqjS5dG685jjPSmYTKss2qpqVqb
2020/11/29 03:29:45 Now run "go run p2p_blockchain.go -l 8002 -d /ip4/127.0.0.1/tcp/8001/p2p/QmfVnDV4VRZJ9ZscEJAQqjS5dG685jjPSmYTKss2qpqVqb -secio" on a different terminal.
2020/11/29 03:29:45 opening stream
> RETAIL
This became a Retail POS Terminal
>

stylo@stylo-OMEN: ~/POS-BlockChain

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stylo@stylo-OMEN:~/POS-BlockChain\$ go run p2p_blockchain.go -l 8000 -secio

(main.Block) {
Index: (int) 0,
Timestamp: (string) (len=54) "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
UserId: (int) 0,
Balance: (int) 0,
Type: (main.TransactionType) (len=4) "NONE",
Amount: (int) 0,
Hash: (string) "",
PrevHash: (string) ""
}

2020/11/29 03:29:28 I am /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQQdERw4XSvILQ5jdbuD3Lta
2020/11/29 03:29:28 Now run "go run p2p_blockchain.go -l 8001 -d /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQQdERw4XSvILQ5jdbuD3Lta -secio" on a different terminal.
2020/11/29 03:29:28 listening for connections
HANDLESTREAM
2020/11/29 03:29:45 Got a new stream!
> CASH
This became a Cash POS Terminal
>

ActivitiesTerminal

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stylo@stylo-OMEN:~/POS-BlockChain\$ go run p2p_blockchain.go -l 8001 -d /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQqDERw4XSvILQ5jdbuD3Lta -secio
(main.Block) {
 Index: (int) 0,
 Timestamp: (string) (len=54) "2020-11-29 03:29:45.845274712 +0530 IST m=+0.002278527",
 UserId: (int) 0,
 Balance: (int) 0,
 Type: (main.TransactionType) (len=4) "NONE",
 Amount: (int) 0,
 Hash: (string) "",
 PrevHash: (string) ""
}
2020/11/29 03:29:45 I am /ip4/127.0.0.1/tcp/8001/p2p/QmfVnDV4VRZJ9ZscEJAQqjS5dG685jjPSmYTKss2qpqVqb
2020/11/29 03:29:45 Now run "go run p2p_blockchain.go -l 8002 -d /ip4/127.0.0.1/tcp/8001/p2p/QmfVnDV4VRZJ9ZscEJAQqjS5dG685jjPSmYTKss2qpqVqb -secio" on a different terminal.
2020/11/29 03:29:45 opening stream
> RETAIL
 This became a Retail POS Terminal
> {
 {
 "Index": 0,
 "Timestamp": "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
 "UserId": 0,
 "Balance": 0,
 "Type": "NONE",
 "Amount": 0,
 "Hash": "",
 "PrevHash": ""
 },
 {
 "Index": 1,
 "Timestamp": "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",
 "UserId": 1,
 "Balance": 0,
 "Type": "NEW_ACCOUNT",
 "Amount": 0,
 "Hash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",
 "PrevHash": ""
 }
}
]> []

stylo@stylo-OMEN: ~/POS-BlockChain

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stylo@stylo-OMEN:~/POS-BlockChain\$ go run p2p_blockchain.go -l 8000 -secio
(main.Block) {
 Index: (int) 0,
 Timestamp: (string) (len=54) "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
 UserId: (int) 0,
 Balance: (int) 0,
 Type: (main.TransactionType) (len=4) "NONE",
 Amount: (int) 0,
 Hash: (string) "",
 PrevHash: (string) ""
}
2020/11/29 03:29:28 I am /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQqDERw4XSvILQ5jdbuD3Lta
2020/11/29 03:29:28 Now run "go run p2p_blockchain.go -l 8001 -d /ip4/127.0.0.1/tcp/8000/p2p/QmX187pFktWwGB1MyjhesGRQqDERw4XSvILQ5jdbuD3Lta -secio" on a different terminal.
2020/11/29 03:29:28 listening for connections
 HANDLESTREAM
2020/11/29 03:29:45 Got a new stream!
> CASH
 This became a Cash POS Terminal
> NEWUSER
 New User account with UserId=1 is created
([]main.Block) (len=2 cap=2) {
 (main.Block) {
 Index: (int) 0,
 Timestamp: (string) (len=54) "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
 UserId: (int) 0,
 Balance: (int) 0,
 Type: (main.TransactionType) (len=4) "NONE",
 Amount: (int) 0,
 Hash: (string) "",
 PrevHash: (string) ""
 },
 (main.Block) {
 Index: (int) 1,
 Timestamp: (string) (len=55) "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",
 UserId: (int) 1,
 Balance: (int) 0,
 Type: (main.TransactionType) (len=11) "NEW_ACCOUNT",
 Amount: (int) 0,
 Hash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",
 PrevHash: (string) ""
 }
}
> []

ActivitiesTerminal

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> RETAIL

This became a Retail POS Terminal

> [

{

"Index": 0,

"Timestamp": "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",

"UserId": 0,

"Balance": 0,

"Type": "NONE",

"Amount": 0,

"Hash": "",

"PrevHash": ""

}

{

"Index": 1,

"Timestamp": "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",

"UserId": 1,

"Balance": 0,

"Type": "NEW_ACCOUNT",

"Amount": 0,

"Hash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",

"PrevHash": ""

}

> [

{

"Index": 0,

"Timestamp": "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",

"UserId": 0,

"Balance": 0,

"Type": "NONE",

"Amount": 0,

"Hash": "",

"PrevHash": ""

}

{

"Index": 1,

"Timestamp": "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",

"UserId": 1,

"Balance": 0,

"Type": "NEW_ACCOUNT",

"Amount": 0,

"Hash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",

"PrevHash": ""

}

> [

{

"Index": 2,

"Timestamp": "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",

"UserId": 1,

"Balance": 1000,

"Type": "CREDIT",

"Amount": 1000,

"Hash": "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",

"PrevHash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"

}

>]

Sun 03:30

stylo@stylo-OMEN: ~/POS-BlockChain

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UserId: (int) 0,

Balance: (int) 0,

Type: (main.TransactionType) (len=4) "NONE",

Amount: (int) 0,

Hash: (string) "",

PrevHash: (string) ""

},

(main.Block) {

Index: (int) 1,

Timestamp: (string) (len=55) "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",

UserId: (int) 1,

Balance: (int) 0,

Type: (main.TransactionType) (len=11) "NEW_ACCOUNT",

Amount: (int) 0,

Hash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",

PrevHash: (string) ""

}

> RECHARGE 1 1000

Recharge

Amount Credited

([main.Block] (len=3 cap=4) {

(main.Block) {

Index: (int) 0,

Timestamp: (string) (len=54) "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",

UserId: (int) 0,

Balance: (int) 0,

Type: (main.TransactionType) (len=4) "NONE",

Amount: (int) 0,

Hash: (string) "",

PrevHash: (string) ""

},

(main.Block) {

Index: (int) 1,

Timestamp: (string) (len=55) "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",

UserId: (int) 1,

Balance: (int) 0,

Type: (main.TransactionType) (len=11) "NEW_ACCOUNT",

Amount: (int) 0,

Hash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",

PrevHash: (string) ""

},

(main.Block) {

Index: (int) 2,

Timestamp: (string) (len=55) "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",

UserId: (int) 1,

Balance: (int) 1000,

Type: (main.TransactionType) (len=6) "CREDIT",

Amount: (int) 1000,

Hash: (string) (len=64) "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",

PrevHash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"

}

>]

ActivitiesTerminal

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```
{
  "Index": 2,
  "Timestamp": "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",
  "UserId": 1,
  "Balance": 1000,
  "Type": "CREDIT",
  "Amount": 1000,
  "Hash": "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",
  "PrevHash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"
}
]> DEBIT 1 600
Amount Debitted
([main.Block] (len=4 cap=4) {
(main.Block) {
  Index: (int) 0,
  Timestamp: (string) (len=54) "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
  UserId: (int) 0,
  Balance: (int) 0,
  Type: (main.TransactionType) (len=4) "NONE",
  Amount: (int) 0,
  Hash: (string) "",
  PrevHash: (string) ""
},
(main.Block) {
  Index: (int) 1,
  Timestamp: (string) (len=55) "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",
  UserId: (int) 1,
  Balance: (int) 0,
  Type: (main.TransactionType) (len=11) "NEW_ACCOUNT",
  Amount: (int) 0,
  Hash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",
  PrevHash: (string) ""
},
(main.Block) {
  Index: (int) 2,
  Timestamp: (string) (len=55) "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",
  UserId: (int) 1,
  Balance: (int) 1000,
  Type: (main.TransactionType) (len=6) "CREDIT",
  Amount: (int) 1000,
  Hash: (string) (len=64) "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",
  PrevHash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"
},
(main.Block) {
  Index: (int) 3,
  Timestamp: (string) (len=55) "2020-11-29 03:31:08.701663756 +0530 IST m=+82.858667726",
  UserId: (int) 1,
  Balance: (int) 400,
  Type: (main.TransactionType) (len=5) "DEBIT",
  Amount: (int) 600,
  Hash: (string) (len=64) "b58392a9239bca1f012b83219742b53327fd82c2c5ba2c3c55d873fd435f78f2",
  PrevHash: (string) (len=64) "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80"
}
}>
```

stylo@stylo-OMEN: ~/POS-BlockChain

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```
PrevHash: (string) ""
},
(main.Block) {
  Index: (int) 2,
  Timestamp: (string) (len=55) "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",
  UserId: (int) 1,
  Balance: (int) 1000,
  Type: (main.TransactionType) (len=6) "CREDIT",
  Amount: (int) 1000,
  Hash: (string) (len=64) "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",
  PrevHash: (string) (len=64) "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"
}
}> [
{
  "Index": 0,
  "Timestamp": "2020-11-29 03:29:28.395371189 +0530 IST m=+0.002145003",
  "UserId": 0,
  "Balance": 0,
  "Type": "NONE",
  "Amount": 0,
  "Hash": "",
  "PrevHash": ""
},
{
  "Index": 1,
  "Timestamp": "2020-11-29 03:30:11.397294747 +0530 IST m=+43.004068746",
  "UserId": 1,
  "Balance": 0,
  "Type": "NEW_ACCOUNT",
  "Amount": 0,
  "Hash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016",
  "PrevHash": ""
},
{
  "Index": 2,
  "Timestamp": "2020-11-29 03:30:38.313138204 +0530 IST m=+69.919912204",
  "UserId": 1,
  "Balance": 1000,
  "Type": "CREDIT",
  "Amount": 1000,
  "Hash": "3b35354a991bd1fd4af277d0889d7801f195673977485b781685031d75005b80",
  "PrevHash": "1f062132c0ea88767cd4c89f93c4b40c8783e4383fcf62783e4da74ec9c98016"
}
]>
```