**Trade finance API**

**Wallet API**

GET WALLET LOGS

GET <http://localhost:10007/api/trade/wallet-logs>

Description: Get history of wallet transaction. Returns array of wallet states.

Response:

[{

"state": {

"data": {

"user": 1,

"seller": 1,

"bank": 1,

"lender": "C=GB,L=London,O=PartyA",

"linearId": {

"externalId": null,

"id": "db52b8fa-edd2-4b8b-a3a2-eb609e791d4c"

},

"participants": [

"C=GB,L=London,O=PartyA"

]

},

"contract": "com.example.contract.IOUContract",

"notary": "C=GB,L=London,O=Controller,CN=corda.notary.validating",

"encumbrance": null,

"constraint": {

"attachmentId": "32116E53F4CC37E1D17E39C6C1E445703AD23EEC6CC9D5A401D855F6C74CEE28"

}

},

"ref": {

"txhash": "C5B0B68B916D6CAC54DFBE6D68910C4B265ABF50BDD37D4AD41579C9EB3191E5",

"index": 0

}

}, {},{}]

GET LATEST BALANCE

GET <http://localhost:10007/api/trade/getBalance>

Description: Get balance of user, seller and bank. Returns wallet state object.

Response:

{

"state": {

"data": {

"user": 100,

"seller": 100,

"bank": 100,

"lender": "C=GB,L=London,O=PartyA",

"linearId": {

"externalId": null,

"id": "db52b8fa-edd2-4b8b-a3a2-eb609e791d4c"

},

"participants": [

"C=GB,L=London,O=PartyA"

]

},

"contract": "com.example.contract.IOUContract",

"notary": "C=GB,L=London,O=Controller,CN=corda.notary.validating",

"encumbrance": null,

"constraint": {

"attachmentId": "32116E53F4CC37E1D17E39C6C1E445703AD23EEC6CC9D5A401D855F6C74CEE28"

}

},

"ref": {

"txhash": "C5B0B68B916D6CAC54DFBE6D68910C4B265ABF50BDD37D4AD41579C9EB3191E5",

"index": 0

}

}

SEND TRANSACTION

PUT <http://localhost:10007/api/trade/transfer-amount>

Description: Transfer amount from one account to another

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* from : bank (Possible inputs : bank/user/seller)
* to : bank (Possible inputs : bank/user/seller)
* amount : 10

Response:

{'txHash': 9B0E116D1BE022A5D5EFBB8F229588A0566C22AB9AF75BCC72E98BA981363770 }

LOAD BALANCE

PUT <http://localhost:10007/api/trade/load-balance>

Description: Load balance to any specific account (user, seller or bank)

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* to : bank (Possible inputs : bank/user/seller)
* amount : 10

Response:

{'txHash': 9B0E116D1BE022A5D5EFBB8F229588A0566C22AB9AF75BCC72E98BA981363770 }

**Trade API**

GET PO STATES

GET <http://localhost:10007/api/trade/pos>

Description: Get all POs with data and status.

Response:

[{

"state": {

"data": {

"data": "{\"vendor\": {\"name\" : \"vendor name\"}, \"products\" : [{\"name\": \"name1\", \"quantity\": 1,\"price\": 50}, {\"name\": \"name1\", \"quantity\": 1,\"price\": 50}], \"shipping\" : {\"to\" : \"address\"}, \"TnC\" : \"TnC\"}",

"status": "Created",

"id": "02588c7b-4776-46c5-a8a0-636cc1f7bbd6",

"lender": "C=GB,L=London,O=PartyA",

"borrower": "C=GB,L=London,O=PartyA",

"linearId": {

"externalId": null,

"id": "9eae645e-dfec-46cc-a6ee-e3a0c5941897"

},

"participants": [

"C=GB,L=London,O=PartyA"

]

},

"contract": "com.example.contract.IOUContract",

"notary": "C=GB,L=London,O=Controller,CN=corda.notary.validating",

"encumbrance": null,

"constraint": {

"attachmentId": "E1C37C3C312DB990AB91B27CAF03A3E89A0D71ED13F831161C69C7FACE29AF38"

}

},

"ref": {

"txhash": "314A71AE70FBBBF7C7060FD3E9D770503C45D6EEA773F503EE65C58EDE90332B",

"index": 0

}

},{},{}..]

CREATE PO

PUT <http://localhost:10007/api/trade/create-po>

Description: Creates PO with given data and status “created”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC"}

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD, 'id': ffe59efa-f2af-4c8d-a401-35e6c98e7d33 }

APPROVE PO

PUT <http://localhost:10007/api/trade/approve-po>

Description: Changes PO status to “approved”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC", + ADDITIONAL DATA}
* id : bfa9b55c-b383-4d98-8192-9cf128b3913f

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD}

APPROVE PO AND REQUEST FINANCING

PUT <http://localhost:10007/api/trade/request-finance>

Description: Changes PO status to “FinanceRequested”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC"+ ADDITIONAL DATA }
* id : bfa9b55c-b383-4d98-8192-9cf128b3913f

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD}

REJECT PO

PUT <http://localhost:10007/api/trade/reject-po>

Description: Changes PO status to “Rejected”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC" + ADDITIONAL DATA }
* id : bfa9b55c-b383-4d98-8192-9cf128b3913f

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD}

APPROVE FINANCE

PUT <http://localhost:10007/api/trade/approve-finance>

Description: Changes PO status to “FinanceApproved”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC" + ADDITIONAL DATA }
* id : bfa9b55c-b383-4d98-8192-9cf128b3913f

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD}

REJECT FINANCE

PUT <http://localhost:10007/api/trade/reject-finance>

Description: Changes PO status to “FinanceRejected”

Headers:

* Content-Type : application/x-www-form-urlencoded

Body:

* data : {"vendor": {"name" : "vendor name"}, "products" : [{"name": "name1", "quantity": 1,"price": 50}, {"name": "name1", "quantity": 1,"price": 50}], "shipping" : {"to" : "address"}, "TnC" : "TnC" + ADDITIONAL DATA }
* id : bfa9b55c-b383-4d98-8192-9cf128b3913f

Response:

{ 'txHash': 73483099688C21A5288474B7C923D16F31BDCD11E63D94AAEB302D505DE408DD}