Aquarius Technical Test

Java Version: 1.8

Port: 8080

H2 DB access: http://localhost:8080/h2-console

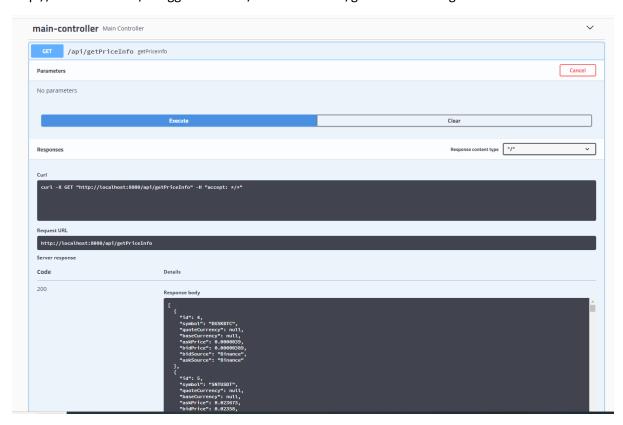
Username: adminUser

Password: password

Start Spring boot application.

Task 1 and Task 2

http://localhost:8080/swagger-ui.html#/main-controller/getPriceInfoUsingGET



Coin pairs are fetched from Binance and Houbi and best price is stored in DB running in 10 seconds retrieval intervals

Response Body will show all the coin pairs and their source data for the prices

API: http://localhost:8080/api/getPriceInfo

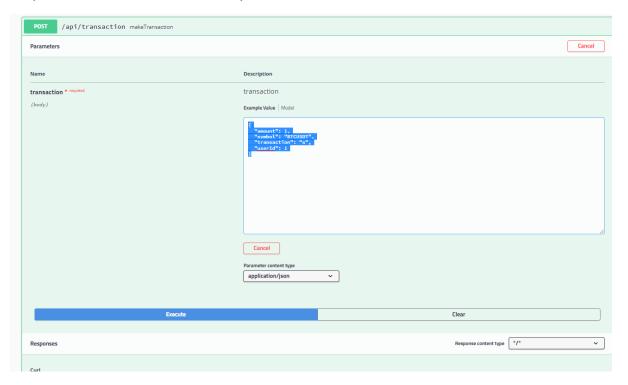
HttpMethod: GET

Task 3, 4 and 5

API: http://localhost:8080/api/transaction

HttpMethod : POST

Purpose of this API is for user to Buy or Sell Coins



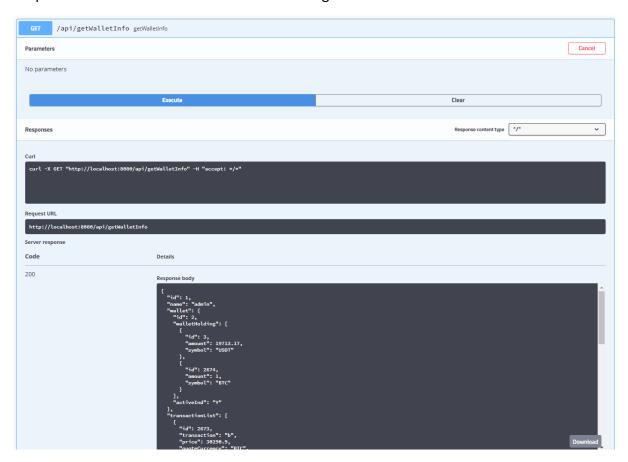
RequestBody

key	Value	type	Remarks
<u>Amount</u>	E.g 1, 2,3	Long	
Symbol	E.g ETHUSDT,BTCUSDT	String	
<u>Transaction</u>	<u>B/S</u>	String	B for Buy, S for
			<u>Sell</u>
<u>userId</u>	1	Long	<u>Defaulted to 1</u>
			for the only pre
			created user

API: http://localhost:8080/api/getWalletInfo

HttpMethod : GET

Purpose of this API is for user to view his existing wallet

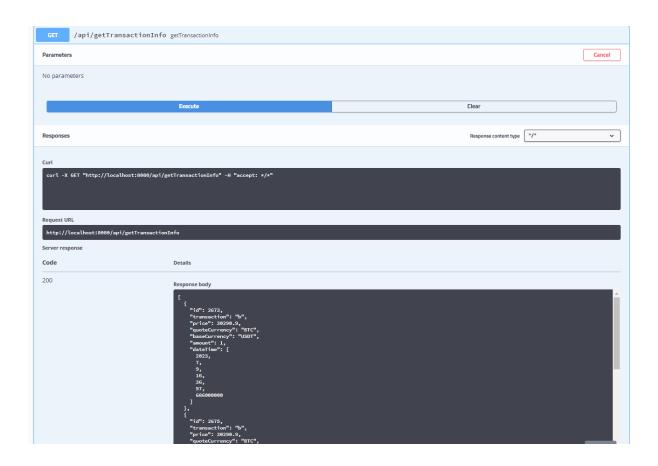


It will show the holdings of the User current coins and their respective amount

API: http://localhost:8080/api/getTransactionInfo

HttpMethod: GET

Purpose of this API is for user to view his previous transaction records

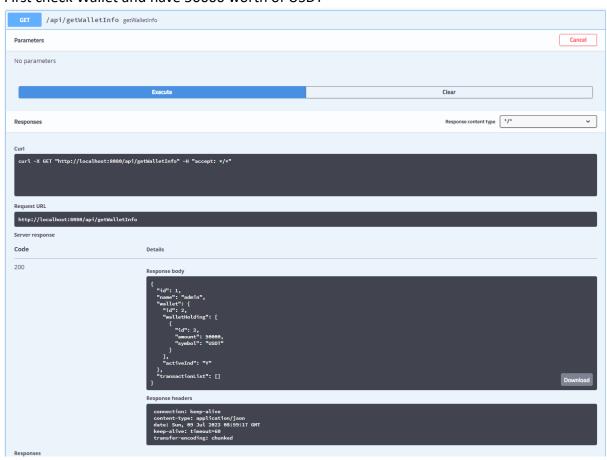


It will show the transaction type B (\mbox{Buy}) / \mbox{S} (Sell) and the price at the time for transaction ,date time and amount

Test Case

User Buys 2 coin of ETH and sell 1 ETH

First check Wallet and have 50000 worth of USDT



Returned JSON: { "id": 1,

```
"name": "admin",

"wallet": {

"id": 2,

"walletHolding": [

{

"id": 3,

"amount": 50000,
```

```
"symbol": "USDT"

}

],

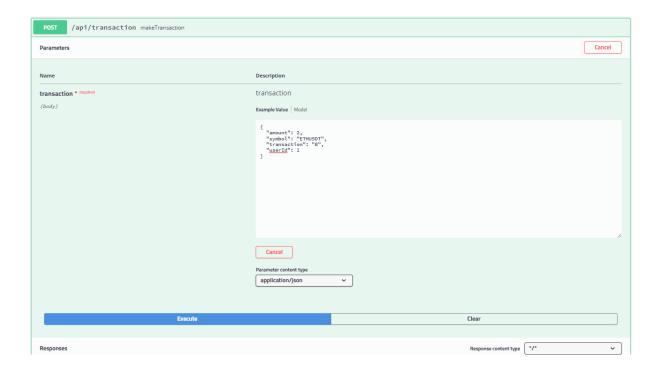
"activeInd": "Y"

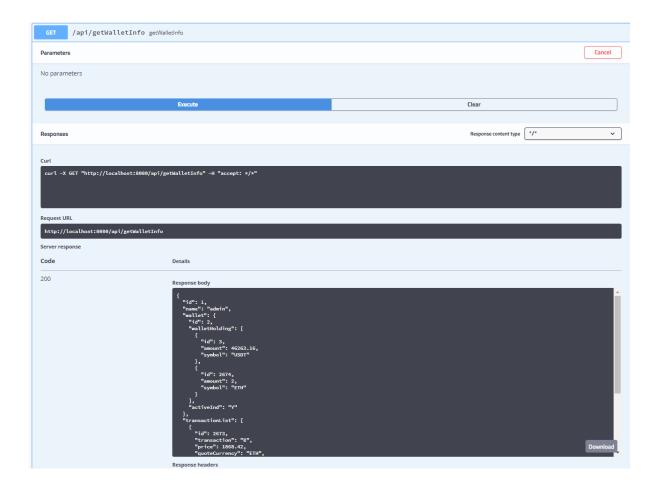
},

"transactionList": []

}
```

Buys 2 amount of ETH and check wallet again





```
Response Body
{

"id": 1,

"name": "admin",

"wallet": {

"id": 2,

"walletHolding": [

{

"id": 3,

"amount": 46263.16,

"symbol": "USDT"

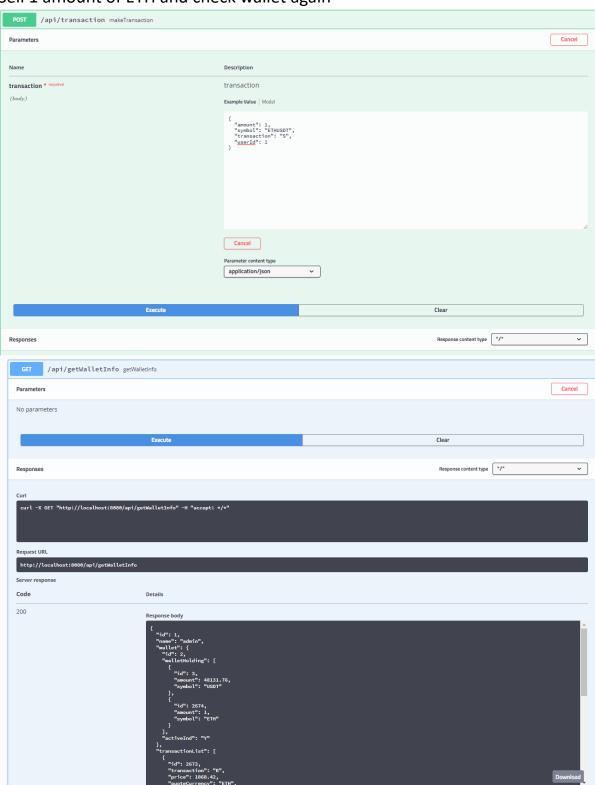
},

{

"id": 2674,
```

```
"amount": 2,
    "symbol": "ETH"
   }
  ],
  "activeInd": "Y"
 },
 "transactionList": [
  {
   "id": 2673,
   "transaction": "B",
   "price": 1868.42,
   "quoteCurrency": "ETH",
   "baseCurrency": "USDT",
   "amount": 2,
   "dateTime": [
    2023,
    7,
    9,
    17,
    2,
    3,
    767000000
   ]
  }
]
}
```

Sell 1 amount of ETH and check wallet again



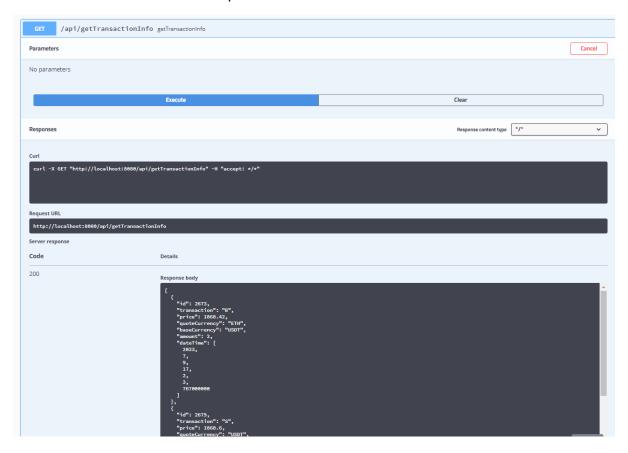
```
Response Body:
```

```
"id": 1,
"name": "admin",
"wallet": {
"id": 2,
"walletHolding": [
  {
   "id": 3,
   "amount": 48131.76,
   "symbol": "USDT"
  },
 {
   "id": 2674,
   "amount": 1,
   "symbol": "ETH"
 }
],
"activeInd": "Y"
},
"transactionList": [
{
  "id": 2673,
  "transaction": "B",
  "price": 1868.42,
  "quoteCurrency": "ETH",
  "baseCurrency": "USDT",
  "amount": 2,
  "dateTime": [
```

```
2023,
   7,
   9,
   17,
   2,
   3,
   767000000
  ]
 },
 {
  "id": 2675,
  "transaction": "S",
  "price": 1868.6,
  "quoteCurrency": "USDT",
  "baseCurrency": "ETH",
  "amount": 1,
  "dateTime": [
   2023,
   7,
   9,
   17,
   4,
   44,
   353000000
  ]
 }
]
```

}

Checks Transaction Record of his past actions



Response Body:

```
[
    "id": 2673,
    "transaction": "B",
    "price": 1868.42,
    "quoteCurrency": "ETH",
    "baseCurrency": "USDT",
    "amount": 2,
    "dateTime": [
    2023,
    7,
    9,
```

```
17,
   2,
   3,
   767000000
  ]
 },
  "id": 2675,
  "transaction": "S",
  "price": 1868.6,
  "quoteCurrency": "USDT",
  "baseCurrency": "ETH",
  "amount": 1,
  "dateTime": [
   2023,
   7,
   9,
   17,
   4,
   44,
   353000000
  ]
 }
]
```