**Revolute-Fund-Transfer RESTFul API**

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**Tools and Technologies Used:**

* java 8
* junit 4.12
* log4j2 2.11.1
* jetty 2.21
* http client 1.5.6
* jersey 2.27
* maven
* h2 1.4.199
* postman

**Steps to run this project:**

1. go to root directory
2. run this maven command : **mvn clean package**
3. go to **target** directory. this will create a fat jar i.e. revolut-fund-transfer.jar
4. run this java command from target directory: **java -jar revolut-fund-transfer.jar**

**REST API End points.**

Base URL:[*http://localhost:9090/revolut/fundtransfer*](http://localhost:9090/revolut/fundtransfer)

|  |  |  |
| --- | --- | --- |
| **Htttp Method** | **URI** | **Description** |
| GET | /usr/all | To get all users |
| GET | /usr/{name} | To get a particular user by name |
| POST | /usr/{create} | To create a user |
| PUT | /usr/{userId} | To update a user by ID |
| DELETE | /usr/{userId} | To delete a user by ID |
| GET | /ac/all | To get all accounts |
| GET | /ac/{accountId} | To get an account by ID |
| GET | /ac/{accountId}/balance | To get an account balance by ID |
| POST | /ac/create | To create an account |
| PUT | /ac/{accountId}/deposit/{amount} | To deposit an amount to an account by ID |
| PUT | /ac/{accountId}/withdraw/{amount} | To withdraw an amount from an account by ID |
| DELETE | /ac/{accountId} | To delete an account by account ID |
| POST | /trans/ | To transfer fund from one account to another |

**Sample Calls from postman:**

**To get a user**

GET: http://localhost:9090/revolut/fundtransfer/usr/JOHN

Content-Type : application/json

Response : {

"userId": 1,

"name": "JOHN",

"emailId": "john123@gmail.com"

}

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**To get all users**

GET: http://localhost:9090/revolut/fundtransfer/usr/all

Content-Type : application/json

Response : [

{

"userId": 1,

"name": "JOHN",

"emailId": "john123@gmail.com"

},

{

"userId": 2,

"name": "MERRY",

"emailId": "merry654@gmail.com"

},

{

"userId": 3,

"name": "LUCY",

"emailId": "lucy369@gmail.com"

},

{

"userId": 4,

"name": "ROSE",

"emailId": "rose123@gmail.com"

},

{

"userId": 5,

"name": "TAYLOR",

"emailId": "taylor654@gmail.com"

},

{

"userId": 6,

"name": "PONTING",

"emailId": "ponting001@gmail.com"

},

{

"userId": 7,

"name": "PELLE",

"emailId": "pelle369@gmail.com"

}

]

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**To create a user**

POST: http://localhost:9090/revolut/fundtransfer/usr/create

Content-Type : application/json

Request : {

"name":"test1",

"emailId":"test1@gmail.com"

}

Response : {

"userId": 8,

"name": "test1",

"emailId": "test1@gmail.com"

}

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**To get all accounnts**

GET : http://localhost:9090/revolut/fundtransfer/ac/all

Content-Type : application/json

Response : [

{

"accountId": 1,

"userName": "JOHN",

"balanceAmount": 1000.0000,

"currencyCode": "USD"

},

{

"accountId": 2,

"userName": "MERRY",

"balanceAmount": 2000.0000,

"currencyCode": "USD"

},

{

"accountId": 3,

"userName": "LUCY",

"balanceAmount": 3000.0000,

"currencyCode": "EUR"

},

{

"accountId": 4,

"userName": "ROSE",

"balanceAmount": 4000.0000,

"currencyCode": "EUR"

},

{

"accountId": 5,

"userName": "HAPPY",

"balanceAmount": 5000.0000,

"currencyCode": "GBP"

},

{

"accountId": 6,

"userName": "TAYLOR",

"balanceAmount": 6000.0000,

"currencyCode": "GBP"

},

{

"accountId": 7,

"userName": "PONTING",

"balanceAmount": 7000.0000,

"currencyCode": "USD"

},

{

"accountId": 8,

"userName": "PELLE",

"balanceAmount": 8000.0000,

"currencyCode": "USD"

}

]

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**To create an account**

POST : http://localhost:9090/revolut/fundtransfer/ac/create

Content-Type : application/json

Request : {

"userName":"test1",

"balanceAmount": 2000,

"currencyCode":"EUR"

}

Response : {

"accountId": 9,

"userName": "test1",

"balanceAmount": 2000.0000,

"currencyCode": "EUR"

}

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**To transfer insufficient amount**

POST: http://localhost:9090/revolut/fundtransfer/trans

Content-Type : application/json

Request : {

"currencyCode":"EUR",

"amount":"12345.68940",

"fromAccountId":"3",

"toAccountId":"4"

}

Response :

{

"errorCode": "Not enough Fund from source Account "

}

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**To transfer sufficient amount**

POST: http://localhost:9090/revolut/fundtransfer/trans

Content-Type : application/json

Request: {

"currencyCode":"EUR",

"amount":"125.68940",

"fromAccountId":"3",

"toAccountId":"4"

}

Response : {

"message": "FUND TRANSFERRED SUCCESSFULLY"

}