# Money transfer Rest API

A Java RESTful API for money transfers between users accounts

**Technologies**

JAX-RS API

H2 in memory database

Log4j

Jetty Container (for Test and Demo app)

Apache HTTP Client

## How to run

Execute this command >

**mvn exec:java**

Application starts a jetty server on localhost port 8080 An H2 in memory database initialized with some sample user and account data To view

<http://localhost:8080/user/test1>

<http://localhost:8080/user/test2>

<http://localhost:8080/account/1>

<http://localhost:8080/account/2>

# Available Services

| HTTP METHOD | PATH | USAGE |
| --- | --- | --- |
| GET | /user/{userName} | get user by user name |
| GET | /user/all | get all users |
| PUT | /user/create | create a new user |
| POST | /user/{userId} | update user |
| DELETE | /user/{userId} | remove user |
| GET | /account/{accountId} | get account by accountId |
| GET | /account/all | get all accounts |
| GET | /account/{accountId}/balance | get account balance by accountId |
| PUT | /account/create | create a new account |
| DELETE | /account/{accountId} | remove account by accountId |
| PUT | /account/{accountId}/withdraw/{amount} | withdraw money from account |
| PUT | /account/{accountId}/deposit/{amount} | deposit money to account |
| POST | /transaction | perform transaction between 2 user accounts |

## Http Status

200 OK: The request has succeeded

400 Bad Request: The request could not be understood by the server

404 Not Found: The requested resource cannot be found

500 Internal Server Error: The server encountered an unexpected condition

## Sample JSON for User and Account

##### User:

{

"userName":"test1",

"emailAddress":"test1@gmail.com"

}

##### User Account:

{

"userName":"test1",

"balance":10.0000,

"currencyCode":"GBP"

}

##### User Transaction:

{

"currencyCode":"EUR",

"amount":100000.0000,

"fromAccountId":1,

"toAccountId":2

}

**Thank you**