This is Rest API project which is working with PostgreSQL database (username=”postgres”, password=”password”).

Web service is using provided tomcat server.

Folder have generator directory with .jar and .cmd File, run.cmd is generates appropriate database from scripts.sql

For web service to work. Web service have 2 endpoint path: ‘/operations’ and ‘/registration’.

For operations we have:

‘/fillBalance’

Method has request {cardnumber:int, amount:int} parameter, it fills the following card numbers balance with passed amount.

‘/transaction/{cardNumber}’

With method same method request, it takes amount from one card and transacts it to another.

‘/checkBalance/{personId}’

Returns the map of all {cardnumber : amount }which is registered by person with personId, and also returns total sum.

‘/history/{personId}’

Returns information about realized transactions from all cards owned by person.

As for registration:

‘/cardHolder’ and ‘/card’

Both of them takes following model class instances, which is then checked for validation and if it is valid then written to according database tables

**REQUEST EXAMPLES:**

PUT

<http://localhost:8080/RestApi_war/operations/fillBalance>

Request Headers

Accept application/json

Content-Type application/json

Accept-Encoding application/json

Bodyraw (json)

{  
  "cardNumber": 2345234523452,  
  "amount": 10000  
}

PUT

<http://localhost:8080/RestApi_war/operations/transaction/1234123412341>

Request Headers

Accept application/json

Content-Type application/json

Accept-Encoding application/json

Bodyraw (json)

{  
  "cardNumber": 2345234523452,  
  "amount": 10000  
}

GET

<http://localhost:8080/RestApi_war/operations/checkBalance/3>

Request Headers

Accept

application/json

Content-Type

application/json

Accept-Encoding

application/json

GET

<http://localhost:8080/RestApi_war/operations/history/2>

Request Headers

Accept

application/json

Content-Type

application/json

Accept-Encoding

application/json

POST

<http://localhost:8080/RestApi_war/registration/card>

Request Headers

Accept application/json

Content-Type application/json

Accept-Encoding application/json

Bodyraw (json)

{  
  "cardNumber": 1634127891234567,  
  "CCV": 972,  
  "expDate": "2029-04-07",  
  "balance": 5000,  
  "cardHolderId": 4  
}

POST

http://localhost:8080/RestApi\_war/registration/cardholder

Request Headers

Accept application/json

Content-Type application/json

Accept-Encoding application/json

Bodyraw (json)

{  
  "id": 10,  
  "fistName": "Luka",  
  "lastName": "Nemsitsveridze",  
  "email": "Luka.nemsi@gmail.com"  
}