Web Services Mini Project

Multi currency e-wallet application

(Spring boot + java)

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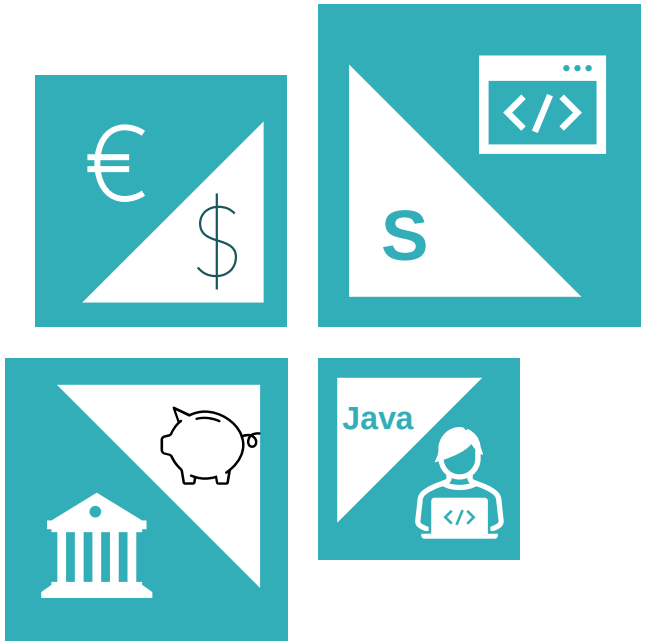
Introduction

Multi currency e-wallet

Euro or USD based e-wallet accounts can be created using the system.



Spring boot backend

spring-boot application has been implemented on the provider end.

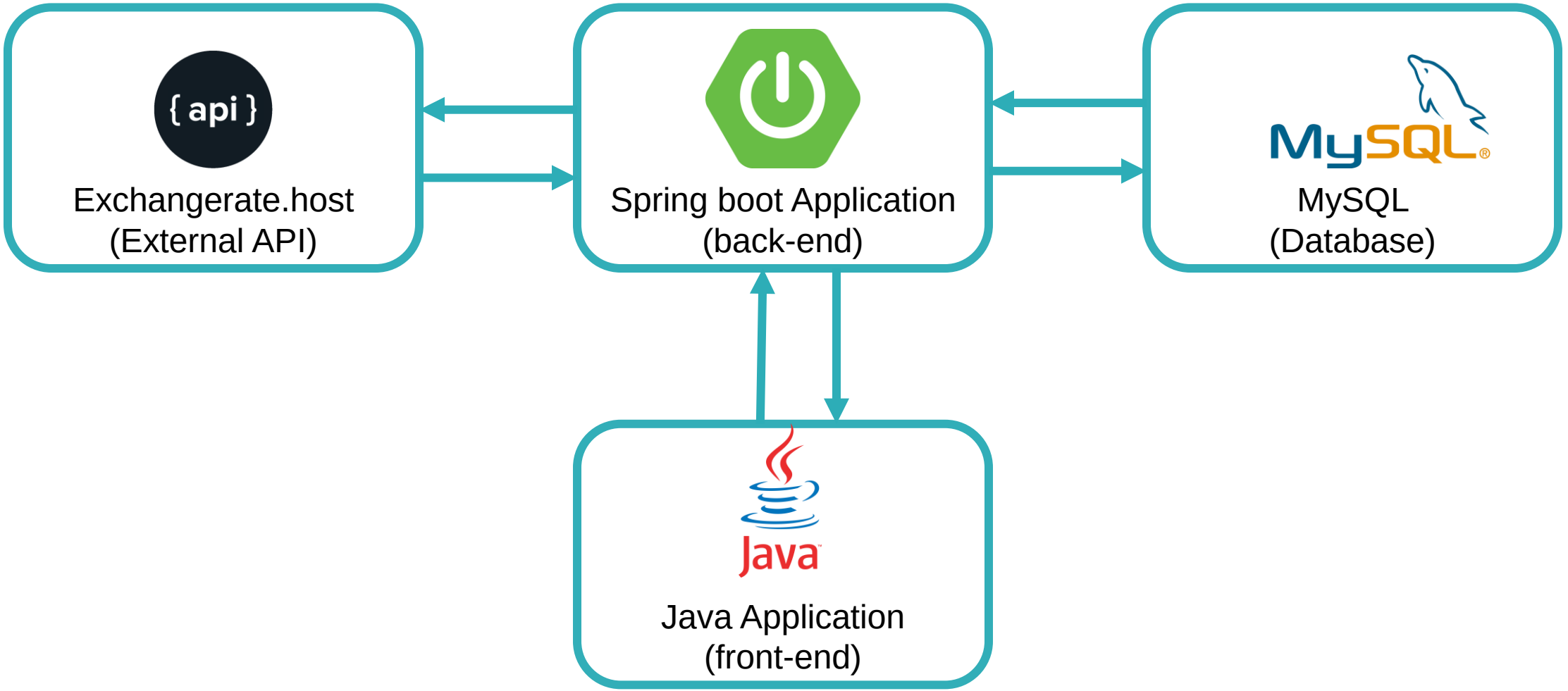
Basic bank account operation

basic bank operations such as deposits, withdrawal, transferring money and bill payment.

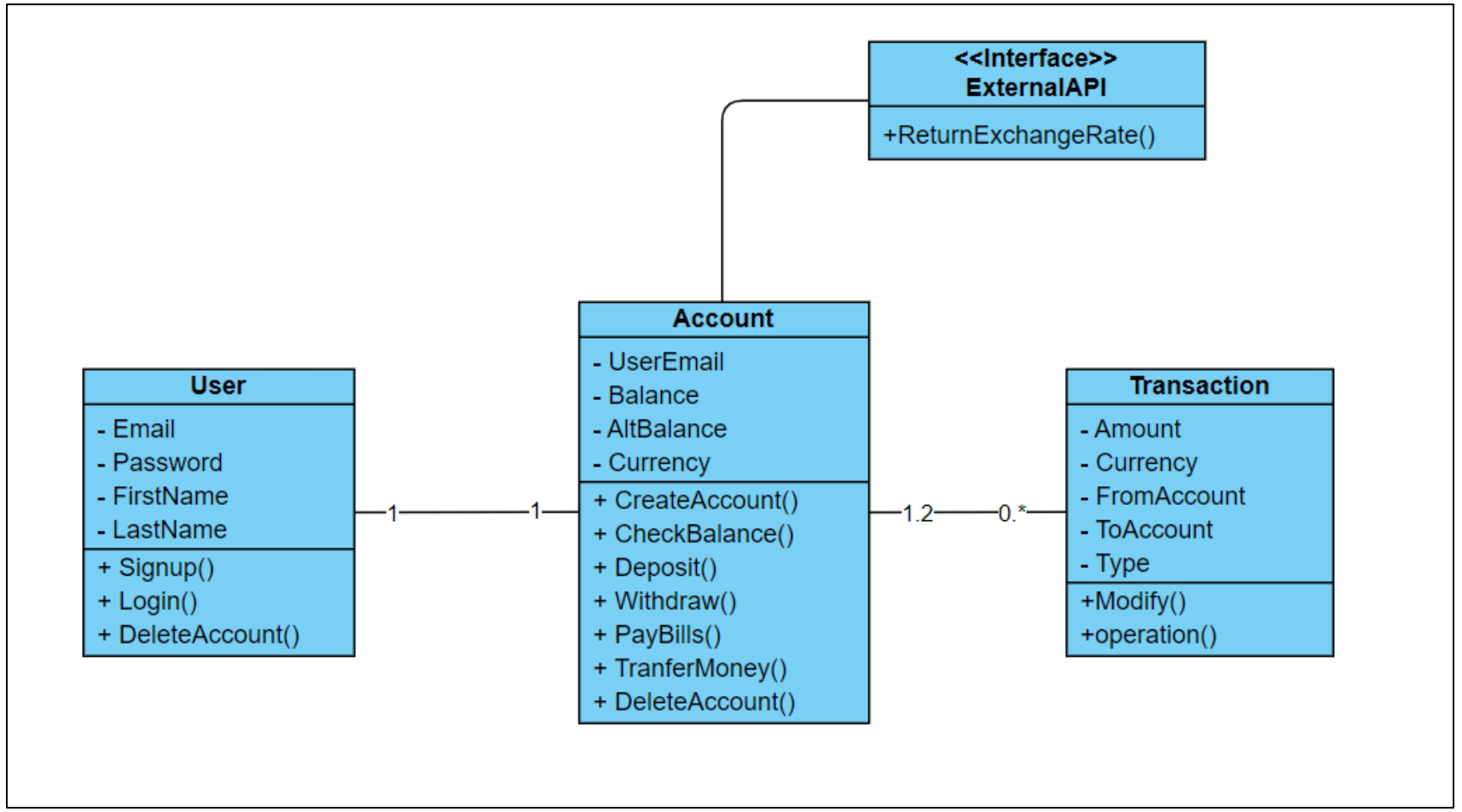
Java application for consumer

a standalone java application has been implemented on the client end.

System Architecture



UML Class Diagram



Application Backend

Spring boot Application

Spring Boot Application Functions

01

Sign up

An external user can sign up for the system.

02

Log in

A user who already has an e-wallet account can sign in

03

Create e-wallet Account

An e-wallet account has been created automatically when a user signs up for the system

04

Deposit money

Users can deposit money into their account through two currencies

05

Withdraw money

Users can withdraw money from their account through two currencies

06

Bill payments

Users can pay essential bills from their account through two currencies

07

Transfer money between two accounts

Users can transfer money from their account to another e-wallet account through two currencies

API Endpoints

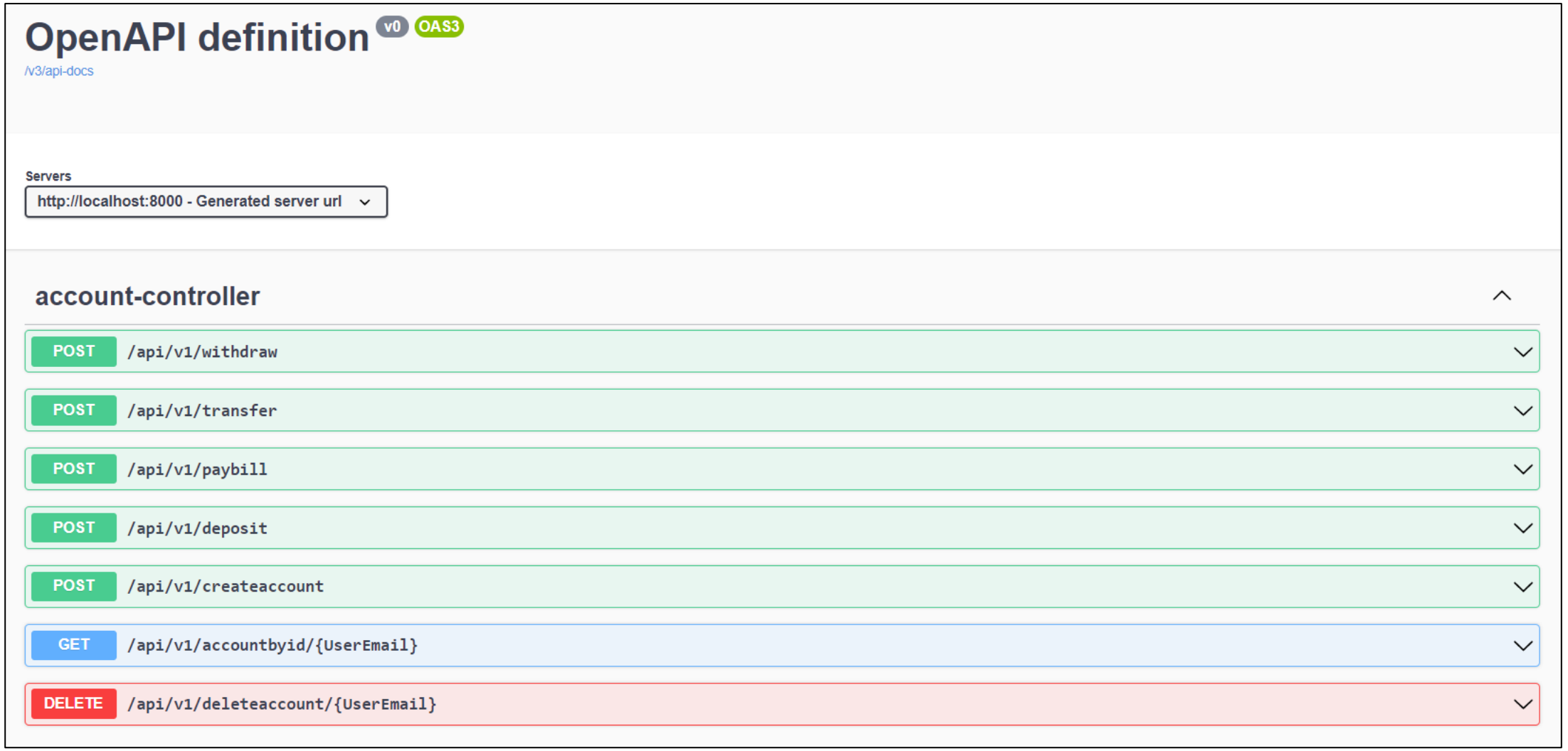
POST	localhost:8000/api/v1/signup
POST	localhost:8000/api/v1/login
POST	localhost:8000/api/v1/createaccount
GET	localhost:8000/api/v1/accountbyid/{email}
POST	localhost:8000/api/v1/deposit
POST	localhost:8000/api/v1/withdraw
POST	localhost:8000/api/v1/paybill
POST	localhost:8000/api/v1/transfer
DELETE	localhost:8000/api/v1/deleteaccount/{email}

Open API Specification

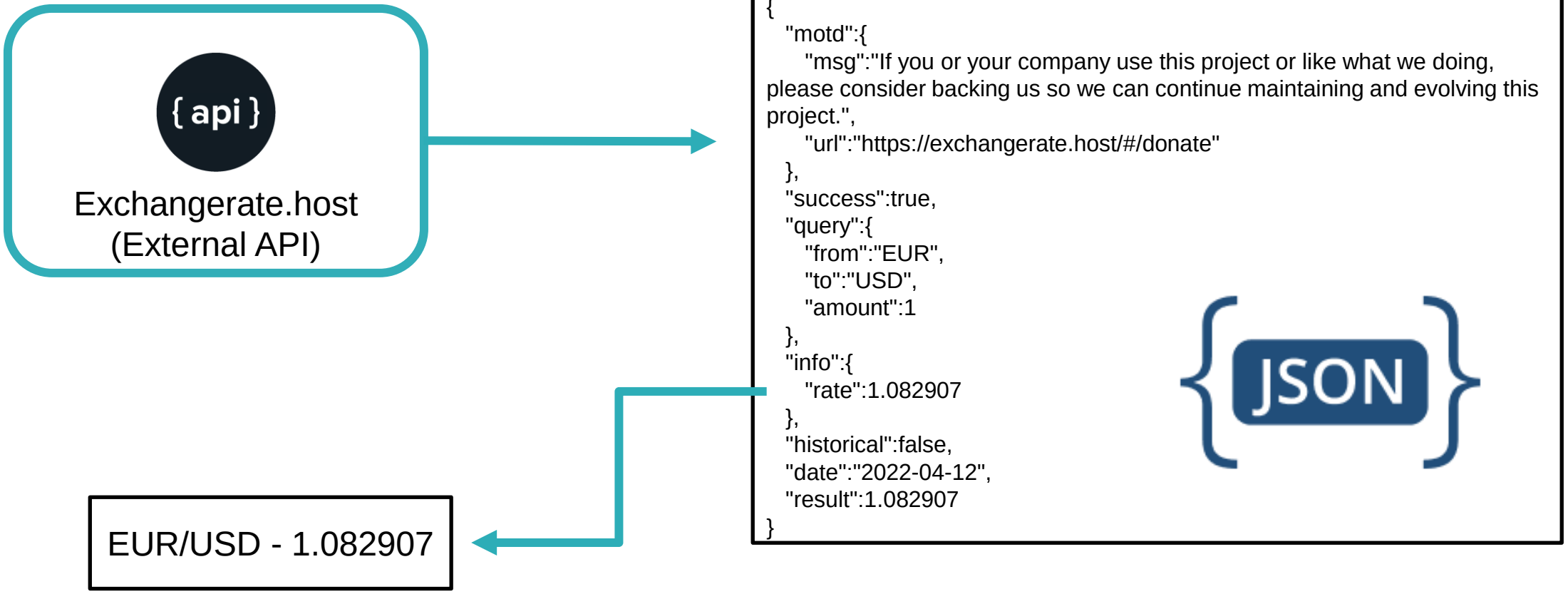
Swagger UI has been included in project

http://localhost:8000/swagger-ui/index.html

Open API Specification



External API



Application Font-end

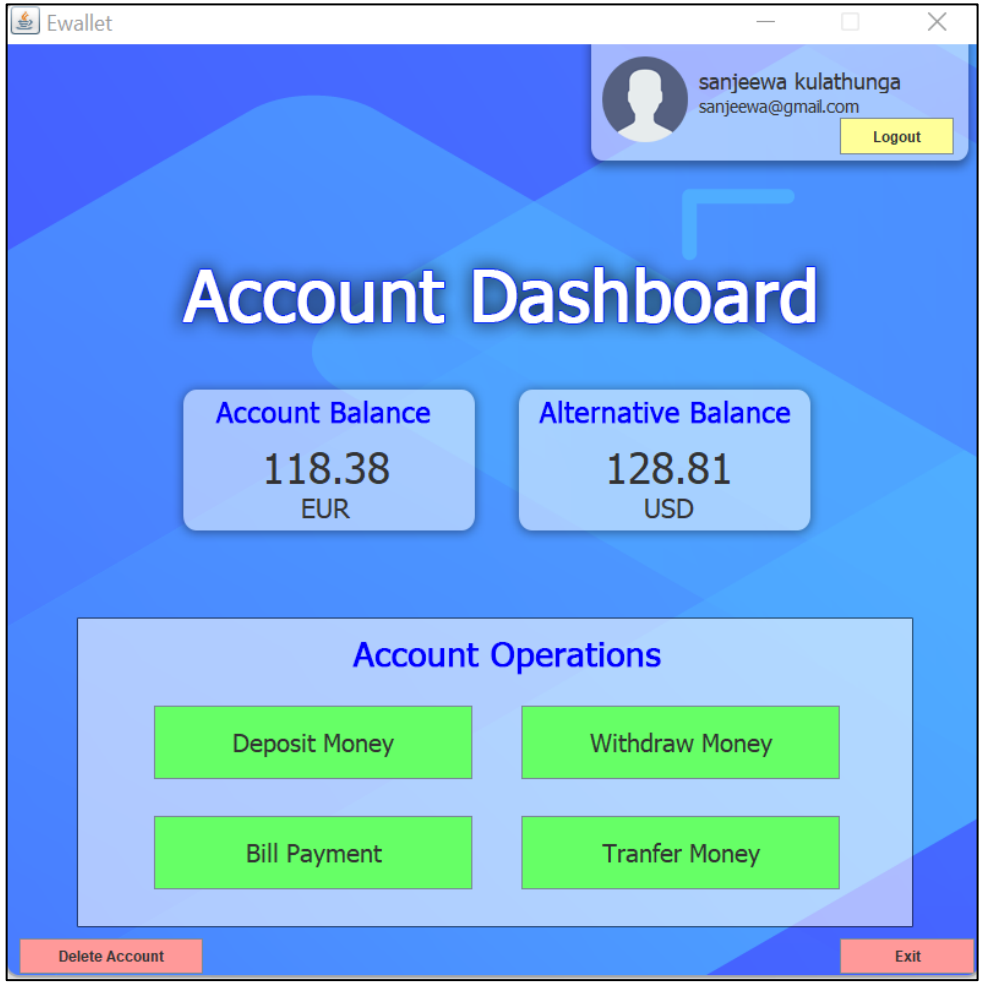
Java Application

Java Application Functions

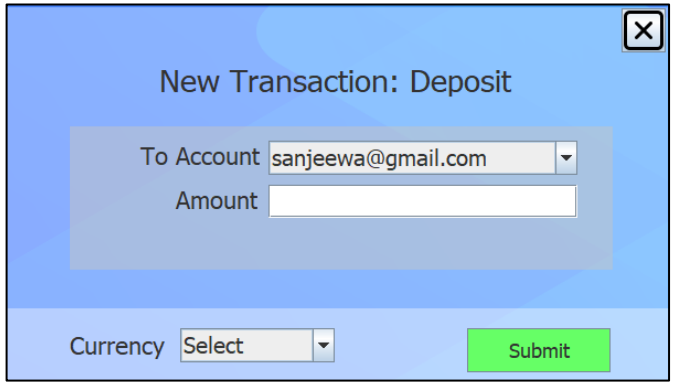
Sign up interface

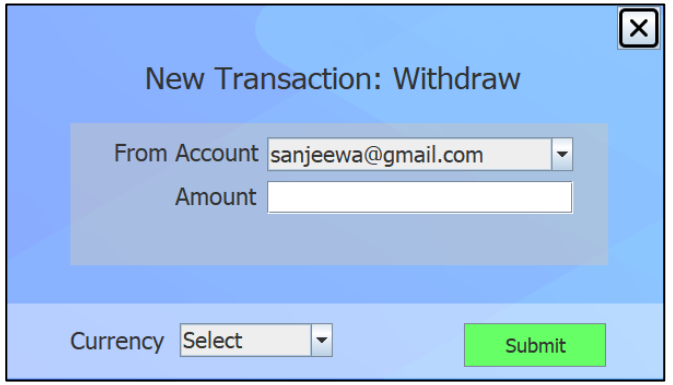
Log in interface

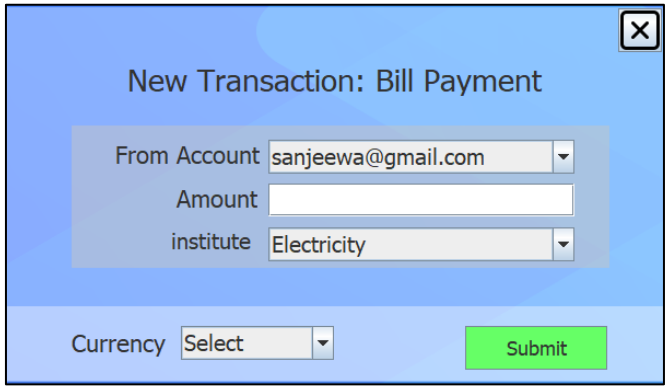
Java Application Functions

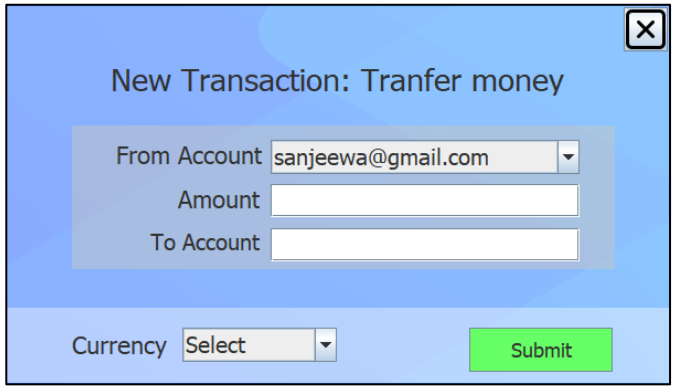


Account Dashboard









Transaction interfaces

Thank you