Specification of the use case and class diagram

The project was proposed to implement a multi-currency e-wallet by achieving basic functional requirements such as money deposit, withdrawal, bill payment and transfer of money between two e-wallet accounts. As the instruction given for the project, "exchangerate API" (https://exchangerate.host) was used to get exchange rates to covert EUR and USD currency values. Following user cases have been implemented as project functions.

User Signup

An external user can sign up for the system.

User Login

A user who already has an e-wallet account can sign in for the system by using his/her login credentials

• Create e-wallet Account

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

Deposit money

Users can deposit money into their account through two currencies which are Euro and US dollars

Withdraw money

Users can withdraw money from their account through two currencies which are Euro and US dollars

Bill Payment

Users can pay essential bills from their account through two currencies which are Euro and US dollars

Transfer money between two accounts

Users can transfer money from their account to another e-wallet account through two currencies which are Euro and US dollars.

<<Interface> ExternalAPI +ReturnExchangeRate() Account - UserEmail User Transaction - Balance - Email - AltBalance - Amount - Password Currency - Currency - FirstName - FromAccount + CreateAccount() - LastName - ToAccount + CheckBalance() + Signup() + Deposit() - Type + Login() + Withdraw() +Modify() + DeleteAccount() + PavBills() +operation() + TranferMoney() + DeleteAccount()

UML Class Diagram