# READ ME

1) Database Design

- Customer – customerId, name, mobileNumber, password
- Bank Account – accountNumber, IFSCCode, bankName, balance, customerId(foreign key)
- Wallet – walletId, balance, walletName, Customer, accountNumber(Foreign key), customerId(foreign key)
- Beneficiary Details – beneficiaryId, customerId(foreign key), name, mobileNumber, userWallet(Foreign key to wallet), beneficiaryWallet(Foreign key to wallet)
- Bill Payment – billId, billType, amount, paymentDate, wallet(foreign key)
- Transaction – id, transactionId, transactionType, transactionDate, amount, Description, wallet(foreign key)

2) MicroServices

- Customer micro service – http://localhost:8083/swagger-ui.html (Customer, Beneficiary Details)
- Bank micro service – http://localhost:8082/swagger-ui.html (Bank Account, Bill Payment, Transaction)
- Wallet micro service – http://localhost:8081/swagger-ui.html (Wallet)

Flow of the program -

- Open the Customer micro service and add a customer – Customer micro service
- Authenticate the customer with the help of authenticate rest end point – Customer micro service
- Copy the token to be used everywhere
- Create the bank account of the person. - Bank micro service
- Create a wallet for the person. - Wallet micro service
- Add beneficiary details for a particular wallet – Customer micro service
- Add bill for a wallet – Bank micro service
- Add or deposit money between wallet and account – Wallet micro service
- Transfer funds to a beneficiary – Wallet micro service
- Pay the bill – Wallet micro service
- Logout to delete the token from DB – Customer micro service

Some end points can be accessed without a token -

- Add a customer
- Get customer by Id
- Get account by Id
- Get Wallet by Id
- Get Beneficiary by Id