**PARALLEL PROJECT DOCUMENTATION**

**PAYMENT**

**WALLET APPLICATION**

**(152636)**

# Problem Statement

## Objective

To develop an online payment wallet application of XYZ bank.

## Abstract of the project

This project is aimed at developing an online payment wallet system. This system can be used to create payment wallet application for XYZ bank. Customers will be able to deposit their money in the wallet, check the balance, withdraw money, print transactions and can do fund transfer.

## Functional components of the project

Following is a list of functionalities of the system.

1. Customer should be able to:
   1. Create payment wallet account / SIGN UP.
   2. Login using his/her credentials/SIGN IN.
   3. Show Balance.
   4. Deposit Money.
   5. Withdraw money.
   6. Fund transfer to another account.
   7. Print transactions.

## CLASSES AND DEPENDENCIES

Following is a list of packages, classes and their dependency.

1. **Bean package**

(com.capgemini.paymentwallet.bean)

**CLASS-** AccountDetails.java

ATTRIBUTES:

* **private** String aadharNo;
* **private** String custName;
* **private** **int** age;
* **private** String gender;
* **private** String custMobileNo;
* **private** String custAddress;
* **private** String custEmail;
* **private** **float** custBal;
* **private** String nationality;
* **private** **int** custAccNo;
* **private** LocalDate custAccDate;
* **private** String uName;
* **private** String uPassword;

1. **UI package**

(com.capgemini.paymentwallet.ui)

Customer.java

* public static void createAccount()
* public static void depositAmount()
* public static void withdrawAmount()
* public static void fundTransfer()
* public static void printTransaction()
* public static void showBalance()

1. **Service package**

(com.capgemini.paymentwallet.service)

Class- CustomerDataValidation.java

* public Boolean validateAadhar(String aadhar)
* public Boolean validateMobNo(String mobNo)
* public Boolean validateInitBalance(float custInitBal)

Interface- IPaymentWalletService.java

Implementation class

Class- PaymentWalletService.java

* public Boolean addCustomer(AccountDetails account)
* public float showBalance()
* public Boolean depositBalance(float amount)
* public Boolean withdrawBalance(float amount)
* public Boolean fundTransfer(int accNumber, float amount)
* public void printTransaction()

(returns Dao class object)

1. **DAO package**

IPaymentWalletDAO.java

Implementation class

PaymentWalletDAO.java

* public Boolean addCustomer(AccountDetails details)
* public float showBalance()
* public Boolean depositBalance(float amount)
* public Boolean withdrawBalance(float amount)
* public Boolean fundTransfer(int accNumber, float amount)
* public void printTransaction()

1. **Exception package**

Class- PaymentAppException.java

1. **Test package**

It uses JUnit framework and well written test code to check the authenticity of code.

* AccountDetailsTest
* CustomerDataValidationTest
* PaymentWalletServiceTest
* PaymentWalletDAOTest