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| PAYMENT WALLET SYSTEM  Parallel Project Using Collection | Abstract  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.  Parallel Project Documentation (AMAN\_15267)  PAYMENT WALLET |

# Problem Statement

## Objective

Development of online payment wallet system 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.
   2. Deposit money.
   3. Check the balance.
   4. Withdraw money.
   5. Print transactions.
   6. Do Fund transfer.

## CLASSES AND DEPENDENCIES

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

* **Bean package**

It contains

* Wallet.java class

This includes the attribute of consumer wallet

* Balance
* Consumer.java class

This includes all the attributes of consumer

* Mobile Number
* Name
* Wallet
* Email

This class contains getter and setter for all the attributes.

* public void SetWalletBalance(Big Decimal balance)
* public BigDecimal getWalletBalance()
* public void setWalletBalance(BigDecimal balance)
* public String getMobileNumber()
* public void setMobileNumber(String mobileNumber)
* public String getName()
* public void setName(String name)
* public String getEmail()
* public void setEmail(String email)
* public Wallet getWallet()
* public void setWallet(Wallet wallet)
* **UI package**

It contains

* PaymentWalletCustomer.java class

This includes methods that displays the menu to consumer and calls appropriate methods

* private static void createAccount()
* private static void depositMoney()
* private static void withdrawMoney()
* private static void fundTransfer()
* private static void pritTransaction()
* **Service package**

It contains

* IPaymentWalletService.java Interface
* public boolean validateDetails(String mobileNumber, String name, String email)
* public void createAccount(Customer customer);
* public boolean validateMobileNumber(String mobileNumber)
* public Customer getCustomerDetails(String mobileNumber);
* public boolean validateAmount(String amount) throws PaymentWalletException;
* public void depositMoney(Customer customer, BigDecimal depositAmount);
* public boolean withdrawMoney(Customer customer, BigDecimal depositAmount);
* public boolean fundTransfer(Customer recCustomer, Customer recCustomer2, BigDecimal depositAmount);
* public StringBuilder printTransaction(String mobileNumber);
* PaymentWalletService.java class

This class implements all the methods of interface of this package, also contains validation methods.

* **DAO package**

It contains

* IPaymentWalletDao.java Interface
* public void createAccount(Customer customer);
* public Customer getCustomerDetails(String mobileNumber);
* public void depositMoney(Customer customer, BigDecimal depositAmount);
* public boolean withdrawMoney(Customer customer, BigDecimal depositAmount);
* public boolean fundTransfer(Customer sendCustomer, Customer recCustomer, BigDecimal depositAmount);
* public StringBuilder printTransaction(String mobileNumber);
* PaymentWalletDAO.java class

(This includes methods which contains logic to do operations like add money show balance etc.)

* **Exception package**

It contains

* IPaymentWalletException.java class
* PaymentWalletException

(This class is used to handle Exceptions that disrupts the normal flow of the program’s instructions)

* **Test package**

It extends the class Exception and uses Junit framework and well written test code to check the authenticity of code. Package contains following test classes