Parallel Project Documentation (DEVANSHU GUPTA)

Capgemini

PAYMENT WALLET SYSTEM

# 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.

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

* **AccountDetails.java**
* accountNumber
* username
* password
* balance
* customerDetails
* List<String> trans;
* **CustomerDetails.java**
* customerName
* customerEmail
* gender
* phoneNumber
* age

This class contains getter and setter for all the attributes. Setter methods have return type as void, while getter method have return type same as attribute data type.

* + - * **Service package**

It contains

* AccountValidation.java
* public boolean validatecustomerName(String customerName)
* public boolean validatecustomerEmail(String customerEmail)
* public boolean validateusername(String username)
* public boolean validatepassword(String password)
* public boolean validatephoneNumber(String phoneNumber)
* public boolean validategender(String gender)
* public AccountDetails validateLogin(String username, String password)
* **AccountService.java**
* public boolean createAccount(AccountDetails account);
* public boolean depositBalance(int deposit, AccountDetails account);
* public void showBalance(AccountDetails account);
* public boolean withdrawBalance(int withdraw, AccountDetails account);
* public boolean FundTransfer(long accountNumber, AccountDetails account);
* public void PrintTransaction(AccountDetails account);
* **IAccountService.java**

Implementation class

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

* **DAO package**

It contains

* **IPaymentWalletDao.java Interface**

Implementation

* **AccountDAO.java class**
* public boolean createAccount(AccountDetails account);
* public boolean depositBalance(int deposit, AccountDetails account);
* public void showBalance(AccountDetails account);
* public boolean withdrawBalance(int withdraw, AccountDetails account);
* public boolean FundTransfer(long accountNumber, AccountDetails account);
* public void PrintTransaction(AccountDetails account);
* **UI package**

It contains

* **Client.java class**

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

* Following functionality will be there in this class

1. Create Account
2. Login

1. Show Balance

2. Deposit

3. Withdraw

4. Fund Transfer

5. Print Transactions

6. Logout

1. Exit

* **Exception package**

It contains

* **AccountException.java**

(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

* **AccountServiceTest**
* **AccountDaoTest**
* **AccountServiceTest**