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**

This includes the attribute of consumer wallet

* CustomerName
* CustomerEmail
* Age
* DOB
* MobileNumber
* Gender
* Balance
* Username
* Password
* AccountNumber

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.

* public void setBalance(int balance)
* public void setBalance(int balance)
* public String getUsername()
* public void setUsername(String username)
* public String getPassword()
* public void setPassword(String password)
* public String getCustomerName()
* public void setCustomerName(String customerName)
* public String getCustomerEmail()
* public void setCustomerEmail(String customerEmail)
* public String getGender()
* public void setGender(String gender)
* public String getPhoneNumber()
* public void setPhoneNumber(String phoneNumber)
* public int getAge()
* public void setAge(int age)
* public LocalDate getDob()
* public void setDob(LocalDate dob)
* public long getAccountNumber()
* public void setAccountNumber(long accountNumber2)
* **UI package**

It contains

* **Client.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

* AccountValidation.java
* public boolean validateName(String customerName)
* public boolean validateEmail(String cusomterEmail)
* public boolean validateusername(String username)
* public boolean validatepassword(String password)
* public boolean validatephoneNumber(String phoneNumber)
* public boolean validateBalance(int balance)
* public boolean validategender(String gender)
* **AccountService.java**
* public boolean createAccount(AccountDetails account)
* public List<AccountDetails> showBalance()
* public AccountDetails deposit(int deposit,AccountDetails ad)
* public AccountDetails withdraw(int withdraw,AccountDetails ad)
* public Boolean fundTransfer(long accountNumber2, ,AccountDetails ad)
* **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 List<AccountDetails> showBalance()
* public AccountDetails deposit(int deposit,AccountDetails ad)
* public AccountDetails withdraw(int withdraw,AccountDetails ad)
* public Boolean fundTransfer(long accountNumber2, ,AccountDetails ad)
* **Exception package**

It contains

* **IPAccountException.java**
* **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**