Parallel Project Documentation (Deepak\_152630)

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.

1. Customer should be able to:
   1. Create payment wallet.
   2. Deposit money.
   3. Check the balance.
   4. Withdraw money.
   5. Do Fund transfer.
   6. Print transactions.

## CLASSES AND DEPENDENCIES

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

* **Bean package**

It contains

* AccountDetails.java class

(This includes all the attributes of consumer)

Attributes with return types:

* String accountHolderName
* String phoneNumber
* String email
* String gender
* int age
* String accountNumber;
* Int balance
* String username
* String password
* List<String> transactions
* **UI package**

It contains

* Client.java class

(This includes methods that displays the menu to consumer and call appropriate method)

* Following functionality will be there in this class

1. Create Account
2. Show Balance
3. Deposit
4. Withdraw
5. Funds Transfer
6. Print Transactions

* **Service package**

It contains

* IAccountService.java Interface
* Functions with return type and parameters:
* public int addAccountDetails(AccountDetails details)
* public boolean deposit(String username, String password, String accountNumber, int balance)
* public boolean withdraw(String username, String password, String accountNumber, int balance)
* public boolean showBalance(String username, String password, String accountNumber)
* public boolean fundTransfer(String username, String password, String SenderAccountNumber, String RecieverAccountNumber, int balance)
* public boolean printTransactions(String username, String password, String accountNumber)

* AccountService.java class

(This class implements IAccountService interface and includes methods which calls the class of dao class where the logic is implemented)

* AccountDataValidation.java class
* Functions with return type and parameters:
* public boolean validateUsername(String username)
* public boolean validatePassword(String password)
* public boolean validateEmail(String email)
* public boolean validatePhoneNumber(String phoneNumber)
* public boolean validateAge(int age)
* public boolean validateGender(String gender)
* **DAO package**

It contains

* IAccountServiceDAO.java Interface

(It will have the same methods as in service interface)

* AccountServiceDAO.java class

(This class will implements IAccountServiceDao interface and includes methods which contains logic to do operations like add money show balance etc.

* **Exception package**

It contains

* AccountNotCreatedException.java class

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

* **Test package**

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

* Dao test class
* Data validation test class
* Bean test class