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| A picture of a winding road and trees  PAYMENT WALLET SYSTEM  [Document subtitle] | Abstract  [Draw your reader in with an engaging abstract. It is typically a short summary of the document. When you’re ready to add your content, just click here and start typing.]  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.

* **DTO package**

It contains

* Wallet.java class

This includes the attribute of consumer wallet

* Balance
* Deposit Time
* Withdraw Time
* Consumer.java class

This includes all the attributes of consumer

* Mobile Number
* Name
* Email
* Wallet class attributes

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** setWalletBalance(**long** balance)
* **public** **long** getWalletBalance()
* **public** **void** setMobileNumber(String mobileNumber)
* **public** String getMobileNumber()
* **public** **void** setName(String name)
* **public** String getName()
* **public** **void** setEmail(String email)
* **public** String getEmail()
* **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 validateName(String name)
* **public** **boolean** validateEmail(String email)
* **public** **boolean** validateMobileNumber(String mobileNumber)
* **public** **boolean** validateAmount(String amount)
* **public** String createAccount(Customer customer);
* **public** Customer depositAmount(String tempDepositAmt);
* **public** Customer withdrawAmount(String WithdrawAmt)
* **public** Customer checkMobileNumber(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 checkMobileNumber(String mobileNumber)
* public Customer depositAmount(String depositAmount)
* public Customer withdrawAmount(String WithdrawAmt)
* public long checkBalance(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

* PaymentWalletServiceTest
* PaymentWalletDaoTest
* PaymentWalletServiceTest