**PAYMENT WALLET APPLICATION**

1. **INTRODUCTION**

Payment wallet application is an application that allows customers to park their money in the e-wallet of XYZ bank. It provides functionalities such as depositing money, withdrawing money, checking the current balance, transferring funds and printing the necessary transactions. With the availability of such functionalities customers will be able to virtually use their money in a safe environment from any location without the need to be physically present at the bank.

1. **APPLICATION ARCHITECTURE**

The application follows a layered architecture containing a set of packages with their corresponding interfaces and implementation classes. They are given as:

* com.capgemini.walletapp.bean
* WalletApplication
* com.capgemini.walletapp.service
* WalletApplicationService
* WalletApplicationServiceInterface
* WalletApplicationValidation
* com.capgemini.walletapp.ui
* WalletApplicationMain
* com.capgemini.walletapp.dao
* WalletApplicationDAO
* WalletApplicationDAOInterface
* com.capgemini.walletapp.test
* WalletApplicationTest
* com.capgemini.walletapp.exception

1. **CLASSES AND CLASS DIAGRAMS**
2. **WalletApplication.java**

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| **WalletApplication** |
| * String firstName * String lastName * String gender * long accNo * String mobileNo * int age * LocalDate date * String email * String username * String password * double amount   +All getters and setters with overrriden toString method |

The WalletApplication.java class consists of all the customer properties such customers first name, last name, account number etc. along with their corresponding getter and setter methods. Also, the toString method is overridden to display the records in the required format.

1. **WalletApplicationService.java**

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| **WalletApplicationService** |
| **+** createAccount()  + login()  + showBalance()  + deposit()  + withdraw()  + fundTransfer()  + printTransaction() |

The WalletApplicationService.java class contains a set of methods that implements the customer request from the user interface.

1. **WalletApplicationDAO**

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| **WalletApplicationDAO** |
| **+** createAccount()  + login()  + showBalance()  + deposit()  + withdraw()  + fundTransfer()  + printTransaction() |

The WalletApplicationDAO.java class contains the business logic for the implementation of the service class method. Also, the WalletApplicationDAO class interacts with the database/collection which stores the corresponding entity/customer details.

1. **WalletApplicationTest.java**

The WalletApplicationTest.java contains the necessary test class methods for the service class methods and also the validation class methods.

1. **WalletApplicationException.java**

The WalletApplicationException package contains all the user defined exception classes necessary for the various inputs and implementation methods.