**SOFTWARE DESIGN AND ARCHITECTURE SE2023**



Assignment No 03

**ONLINE BANKING MANAGEMNET SYSTEM**

**SUBMITTED BY:**

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# ***** USE CASE 01

## UTILITY BILL PAYMENT

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| **Section** | **Content** | |
| **Use Case Name** | Pay utility bills | |
| **Scope** | Online banking System | |
| **Level** | User- level | |
| **Primary Actor** | Account holder | |
| **Stakeholders and Interests** | **Account holder** Wants to pay his utility bills. | |
| **Pre-condition** | The account holder must have been logged into the system. | |
| **Post-condition** | The bill has been successfully paid. | |
| **Main Success Scenario** | Account Holder | Online Banking System |
|  |  |
|  | * The account holder clicks on the “Bill payment” button. |  |
|  |  | * After clicking on the “Bill payment”, the online banking system displays a list of options on the screen. |
|  | * Account holder then selects the “Bill Payee” option from the list appearing on his screen. |  |
|  | * The account holder enters the required details of ‘Account number’ and ‘amount’ into the system. * Account holder then tabs the ‘Next’ option. | * The online banking system asks the account holder to enter all bill details. |

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|  | * Account holder then confirms the transaction by clicking on “Confirm” button. * The account holder clicks on “Ok” button. | * The online banking system shows a screen of confirmation. * The online banking system cuts the entered amount from the account holder’s total balance. * The online banking system displays a prompt message “You successfully paid your   bills” on the screen. |
| **Alternate scenario** | In case the account holder selects the “NO” option the system will redirect the user back to the home page. | |
| **Exception scenario** | The online banking system doesn’t remove the biometric check of the account holder despite performing all the steps. | |

* **USE CASE 02**

## BLOCK CARD

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| **Section** | **Content** | |
| **Use Case Name** | Block Card Temporarily | |
| **Scope** | Online Banking System | |
| **Level** | User-goal | |
| **Primary Actor** | Account Holder | |
| **Stakeholders and Interests** | 1. **Account Holder** wants to manage his  card by blocking it temporarily. | |
| **Pre-condition** | Account Holder must be logged in into the Online Banking System. | |
| **Post-condition** | A prompt appears stating that the card status has been changed successfully. | |
| **Main Success Scenario** | **User Action** | **System Response** |
| * Account Holder clicks the ‘Card Management’ button onto the home page. | * The Online Banking System redirects the account holder to the Card Management page and displays a list   of options. |
| * The account holder selects   the ‘Temporary Card Blocking’ option. | * The Online Banking System shows the current status of the |

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|  |  | user onto the  screen. |
| * The user clicks on the   ‘Deactivate’ button.   * The user enters the PIN and   clicks ‘OK’.   * The account holder taps the ‘OK’ button on   the screen. | * The system asks the user to enter the PIN for verification purposes. * A prompt appears on the screen displaying the message, “Your card status has been changed successfully”. |
| **Alternate scenario** | **User Action** | **System Response** |
| 4. The user taps the ‘Regenerate OTP’ button in case he has forgotten the PIN. | The system shall regenerate the OTP for the user for verification purposes. |
| **Exception scenario** | * The application crashes. * The system failed to provide this service at that certain time of the day the user was trying to perform the functionality. |  |

* **USE CA****SE 03**

## TRANSFER MONEY

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| **Section** | **Content** | |
| **Use Case Name** | Transfer Money | |
| **Scope** | Online banking System | |
| **Level** | user- level | |
| **Primary Actor** | Account holder | |
| **Stakeholders and Interests** | Account holder | |
| **Pre-condition** | The account holder must be logged in to the online banking system. | |
| **Post-condition** | The amount has been transferred. | |
| **Main Success Scenario** | **Account Holder** | **Online Banking System** |
| * The account holder clicked on the “Transfer money” button. |  |
|  |  | * The online banking system displays the list of banks on the screen. |
|  | * The account holder selects the bank option from the list where he wants to transfer the money. |  |
|  |  | * The online banking system will ask the account holder to enter the account details of the   receiver. |
|  | * The account holder entered account’s details of receiver. * The account holder clicks on the “Next” button. |  |
|  |  | * The online banking system will check |

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|  |  | whether the entered account will exist or not. |
|  | * The online banking system asked the account holder to enter the amount he wants to transfer. |
| * The account holder enters the amount he wants to transfer. |  |
|  | * The online banking system will verify that the entered amount does not exceed the total balance of the account holder. |
| * The account holder clicked on the “Transfer” button. |  |
|  | * The online banking system cuts the entered amount from the account holder’s balance and transfers the entered amount to the receiver account. * The online banking system displays a prompt message “Your transaction has been completed successfully” On the screen. |
| **Alternate scenario** | * If account holder entered wrong account details of receiver, then online banking system displayed a prompt message “You entered wrong accounts details” on the screen. * The online banking system displayed a prompt message “Your account balance less than the entered amount” on the screen. | |
| **Exception scenario** | The receiver will not receive the amount but the amount deducts from the total balance of account holder. | |

* **USE CASE 04**

## APPLY FOR LOAN

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| **Section** | **Content** | |
| **Use Case Name** | Request for loan | |
| **Scope** | Online banking System | |
| **Level** | User- level | |
| **Primary Actor** | Account holder | |
| **Stakeholders and Interests** | **Account holder:** Wants to get loan from the bank.  **System Administrator:** Approved the request of the account holder and grants him the loan based upon the terms and conditions. | |
| **Pre-condition** | The account holder must have been logged into the system. | |
| **Post-condition** | Upon acceptance of the Terms & Conditions the loan amount has been disbursed into the account instantly. | |
| **Main Success Scenario** | **Account Holder** | **Online Banking System** |
| * The account holder clicks on “Request for Loan” button. * A list of customized loan options is displayed to the account holder. * Account holder clicks on one option. | O |
|  |  | * The online banking system asked the account holder to entered account’s details. |
|  | * The account holder entered all account details. * Account holder clicks on “Next” button. |  |
|  |  | * The online banking system asks the user to |

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|  |  | enter the amount for |
|  | loan. |
| * The account holder entered the amount that wants for loan. * Account holder clicks on “Confirm” button. |  |
|  | * The online banking |
|  | system receives a |
| * A message will be displayed on his screen, “Your request   for loan received successfully”. | request for loan. |
| **Alternate scenario** | * The account holder has already availed this option within the past 90 days even for once then he will not be eligible for the loan. * When the account holder doesn’t accept the terms and conditions his application will not be processed further. | |
| **Exception scenario** | The administration doesn’t receive the request of loan despite the correct procedure followed by the account holder. | |

* **USE CASE 05**

## MANAGE PAYEE

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| **Section** | **Content** | |
| **Use Case Name** | Manage Payee | |
| **Scope** | Online banking System | |
| **Level** | user- level | |
| **Primary Actor** | Account holder | |
| **Stakeholders and Interests** | Account holder | |
| **Pre-condition** | The account holder must be logged in to the online banking system. | |
| **Post-condition** | The account details successfully added in the list of Manage Payee. | |
| **Main Success Scenario** | Account Holder | Online Banking System |
|  |  |
|  | * The account holder clicked on the “Manage Payee” button. | * The online banking system displays the screen that show the details of all accounts whom account holder has already sent the amount. |
|  | * The account holder clicks on the “Add new” button. |  |
|  |  | * The online banking system will show the screen that asked the account holder to enter account details of receiver. |

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|  | * The account holder entered all account details of receiver. * The account holder clicks on “Submit” button. * The account holder sees the   account details in manage payee list. | * The online banking system verify whether the account exist or not. * The online banking system added the account details in manage payee list. * The online banking system prompt a message “Account details successfully added in manage payee list.” On the screen.    |
| **Alternate scenario** | If account holder entered wrong account details of receiver, then online banking system displayed a prompt message “You entered wrong accounts details” on the screen. | |
| **Exception scenario** | The account details not added in the manage payee list. | |

* **USE CASE 06**

## DISPLAY TRANSACTION HISTORY

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| **Section** | **Content** | |
| **Use Case Name** | Display Transaction History | |
| **Scope** | Online Banking System | |
| **Level** | User-goal | |
| **Primary Actor** | Account Holder | |
| **Stakeholders and Interests** | 1. **Account Holder** wants to check his  transaction history. | |
| **Pre-condition** | Account Holder must be logged in into the Online Banking System. | |
| **Post-condition** | A window having details of transactions of the account appears. | |
| **Main Success Scenario** | **User Action** | **System Response** |
| * Account Holder clicks on   ‘Display Transaction  History’ button from the menu. | * The Online Banking System redirects the account holder to the registration   ‘Display Transaction History’ page. |
|  | * The Online Banking System shows all the transactions made by Account Holder. |

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|  | * The user clicks on the ‘Back to Main Menu’ button. |  |
| **Exception scenario** | The E banking system fails to offer this service at that particular time. |  |

**Use Case Diagram:**

