Input-Processing-Output (IPO)

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| Input | Processing | Module | Output |
| Internet Connection    Member Status           Thumbprint Set            Email1, Password1  Email2, Password2, Address, Age  Bank Account, Bank Holder, Bank Branch  Series Number  Amount Top Up  Username1, Password3  Confirmation  QR Code In  Station  QR Code Out | 1. Set Counter = 0, Payment = 0 2. Enter Internet Connection 3. IF Internet Connection = “No”, THEN 4. Display “Please, check your connection.” 5. ELSE, 6. Display “Already Sign Up?” 7. Enter Member Status 8. IF Member Status = Yes, THEN      1. Display “Login” 2. Display “Thumbprint” 3. Enter Thumbprint Set 4. IF Thumbprint = No, THEN 5. DO 6. DO 7. Display Login Form 8. Enter Email1, Pasword1 9. IF Email1 = “Yes” AND Password1 = “Yes”, THEN 10. Display “Login Successful!” 11. ELSE IF Email1 = “Yes” AND Password1 = “No”, THEN 12. Display “Password/Email incorrect” 13. ELSE IF Email1 = “No” AND Password1 = “Yes”, THEN 14. Display “Password/Email incorrect” 15. ELSE, 16. Display “Password/Email incorrect” 17. ENDIF 18. WHILE Email1 = “No” 19. WHILE Password1 = “No” 20. ELSE, 21. Display “Login Successful!” 22. ENDIF 23. ELSE, 24. Display Sign Up Form 25. Enter Email2, Password2, Address, Age 26. IF Age > 18 THEN 27. Display Bank Detail Form 28. Enter Bank Account, Bank Holder, Bank Branch 29. ENDIF 30. ENDIF 31. DO 32. DO 33. DO 34. Display Home page, Icon, Account Balance, Payment Method 35. IF Payment Method = “Cash” 36. Enter Series Number 37. IF Series Number = “Match” 38. Display “Your Wallet Successful Top Up” 39. ELSE 40. Display “Your Series Number doesn’t correct” 41. ENDIF 42. While Series Number = “No” 43. ELSE IF Payment Method = “Bank Transfer” 44. DO 45. DO 46. Enter Amount Top Up 47. IF Amount Top Up < 5 ,THEN 48. Display “Your Top Up amount must be more than RM5” 49. ELSE 50. Display Bank Login Form 51. DO 52. DO 53. Enter Usename1, Password3 54. IF Username1 = “Yes” AND Password3 = “Yes” THEN 55. Total Balance = Amount Top Up + Account Balance 56. Display Amount Top Up, Total Balance, Series Number, Bank Holder 57. Enter Confirmation 58. IF Confirmation = “Yes” THEN 59. Display Receipt Form 60. ELSE 61. Display “Your Transfer Unsuccessful, Please try again” 62. ENDIF 63. WHILE Confirmation = “No” 64. ELSE IF Username1 = “Yes” AND Password3 = “No” THEN 65. Display “Your Username/Password incorrect” 66. ELSE IF Username1 = “No” AND Password3 = “Yes” THEN 67. Display “Your Username/Password incorrect” 68. ELSE 69. Display “Your Username/Password incorrect” 70. ENDIF 71. WHILE Password = “No” 72. WHILE Username1 = “No” 73. ENDIF 74. WHILE Amount Top Up <= 5 75. ENDIF 76. Display Notification Payment 77. Display QR Scan 78. Enter QR Code In 79. IF Account Balance < 2 THEN 80. Display “Sorry, not enough change. Please top-up” 81. ELSE 82. Display “Thank You. Enjoy your ride!” 83. Enter Station 84. WHILE Counter < Station DO 85. Payment = Payment + 2 86. Counter = Counter + 1 87. ENDWHILE 88. Enter QR Code Out 89. Net Balance = Account Balance – Payment 90. Display “Thank You. Please, come again” 91. Display Notification 92. ENDIF 93. WHILE Account Balance < 2 94. Display Exit Icon 95. Display “We will miss you, Are you sure?” 96. WHILE Exit Icon = “No” 97. ENDIF 98. END | Read  Print  Print   Read  Print  Print   Read  Print  Read  Print  Print  Print  Print    Print  Print  Read  Print  Read  Print  Read  Print  Print  Read  Print  Print  Read  Calc  Print  Read  Print  Print  Print  Print  Print  Print  Print  Read  Print  Print  Read  Calc  Calc  Read  Calc  Print  Print  Print  Print | Please check your connection.      Already Sign Up?         Login  Thumbprint  Login Form  Login Successful!  Password/Email incorrect  Password/Email incorrect  Password/Email incorrect  Login Successful!  Sign Up Form  Bank Detail Form  Home page, Icon, Account Balance, Payment Method  Your Wallet Successful Top Up  Your Series Number doesn’t correct  Your Top Up amount must be more than RM5  Bank Login Form  Amount Top Up, Total Balance, Series Number, Bank Holder  Receipt Form  Your Transfer Unsuccessful, Please try again  Your Username/Password incorrect  Your Username/Password incorrect  Your Username/Password incorrect  “Dear customer, you have made payment to your account total RM” + Amount Top Up + “. The current change in your account is RM” + Total Balance + “.Thank you for using our E-Wallet.”  QR Scan  Sorry, not enough change. Please top-up  Thank You. Enjoy your ride!  Thank You. Please, come again  “Dear customer, RM “ + Payment + “ is deducted from your E-Wallet. Your total balance in your account is RM “ + Net Balance + “. Thank you for using our E-Wallet.”  Exit Icon  We will miss you, Are you sure? |