**E-Wallet (Algorithm)**

1. Open E-Wallet
2. Set Internet\_Status = “Yes”, Member\_Status = “Yes”, Thumbprint\_Set = “Yes”, Email1 = “Yes”, Password1 = “Yes”, Username1 = “Yes”, Password3 = “Yes”, Payment\_Method = “Cash”, Payment\_ Method = “Bank Transfer”, Series\_Number = “Match”, Confirmation = “Yes”, Counter = 0, Payment = 0
3. Display “Loading”
4. Enter Internet\_Status
5. If ( Internet\_Status = “Yes”) Then
6. Display “Already Sign Up?“
7. Enter Member\_Status
8. If ( Member\_Status = “Yes”) Then
9. Display “Login”
10. Display “Thumbprint”
11. Enter Thumbprint\_Set
12. If ( Thumbprint\_Set = “Yes”) Then
13. Display “ Login Successful!”
14. Else
15. Do
16. Do
17. Display Login\_Form
18. Enter Email1
19. Enter Password1
20. If ( Email1 = “Yes” AND Password1 = “Yes”) Then
21. Display “ Login Successful!”
22. Else If ( Email1 = “Yes” AND Password1 = “No”) Then
23. Display “ Password / Email incorrect”
24. Else If ( Email1 = “No” AND Password1 = “Yes”) Then
25. Display “ Password / Email incorrect”
26. Else
27. Display “ Password / Email incorrect”
28. EndIf
29. While (Email1 = “No” )
30. While ( Password1 = “No” )
31. EndIf
32. Else
33. Display SignUp\_Form
34. Enter Email2
35. Enter Password2
36. Enter Address
37. Enter Age
38. If ( Age > 18) Then
39. Display BankDetail\_Form
40. Enter Bank\_Account
41. Enter Bank\_Holder
42. Enter Bank\_Branch
43. EndIf
44. EndIf
45. Do
46. Do
47. Do
48. Display Home\_Page
49. Display Icon
50. Display Account\_Balance
51. Display Payment\_Method
52. If ( Payment\_Method = “Cash”) Then
53. Enter Series\_Number
54. If ( Series\_Number = “Match”) Then
55. Display “Your Wallet Successful Top Up”
56. Else
57. Display “Your Series Number doesn’t correct”
58. EndIf
59. While ( Series\_Number = “No”)
60. Else If ( Payment\_Method = “Bank Transfer”) Then
61. Do
62. Do
63. Enter Amount\_TopUp
64. If ( Amount\_TopUp >= 5 ) Then
65. Display BankLogin\_Form
66. Do
67. Do
68. Enter Username1
69. Enter Password3
70. If ( Username1 = “Yes” AND Password3 = “Yes”) Then
71. Total\_Balance = Amount\_TopUp + Account\_Balance
72. Display Amount\_TopUp
73. Display Total\_Balance
74. Display Series\_Number
75. Display Bank\_Holder
76. Enter Confirmation
77. If ( Confirmation = “Yes” ) Then
78. Display Receipt\_Form
79. Else
80. Display “Your Transfer Unsuccessful, Please try again”
81. EndIf
82. While ( Confirmation = “No” )
83. Else If ( Username1 = “Yes” AND Password3 = “No”) Then
84. Display “Your Username/Password is incorrect”
85. Else If ( Username1 = “No” AND Password3 = “Yes”) Then
86. Display “Your Username/Password is incorrect”
87. Else
88. Display “Your Username/Password is incorrect”
89. EndIf
90. While ( Password3 = “No” )
91. While ( Username1 = “No” )
92. Else
93. Display “Your Top Up amount must be more than RM 5”
94. EndIf
95. While ( Amount\_TopUp <= 5 )
96. EndIf
97. Display Notification\_Payment = “Dear customer, you have made payment to your account total RM” + Amount\_TopUp + “. The current change in your account is RM “ + Total\_Balance + “.Thank you for using our E-Wallet.”
98. Display QR\_Scan
99. Enter QR\_Code\_In
100. If ( Account\_Balance >= 2) Then
101. Display “Thank You. Enjoy your ride!”
102. Enter Station
103. While ( Counter < Station) Do
104. Payment = Payment + 2
105. Counter = Counter + 1
106. EndWhile
107. Enter QR\_Code\_Out
108. Net\_Balance = Account\_Balance – Payment
109. Display “Thank you. Please, come again.”
110. Display Notification = “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.”
111. Else
112. Display “Sorry, not enough change. Please top-up”
113. EndIf
114. While ( Account\_Balance < 2 )
115. Display Exit\_Icon
116. Display “We will miss you, Are you sure?”
117. While ( Exit\_Icon = “No” )
118. Else
119. Display “Please, check your connection”
120. EndIf
121. End