**E-Wallet (Algorithm with Module):**

ControlE-Wallet

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

Display “Loading”

Process Read (\*Internet\_Status)

If ( Internet\_Status = “Yes”) Then

Display “Already Sign Up?“

Process Read ( \*Member\_Status)

If ( Member\_Status = “Yes”) Then

Display “Login”

Display “Thumbprint”

Process Read (\*Thumbprint\_Set)

If ( Thumbprint\_Set = “Yes”) Then

Display “ Login Successful!”

Else

Do

Do

Display Login\_Form

Process Read (\*Email1, \*Password1)

If ( Email1 = “Yes” AND Password1 = “Yes”) Then

Display “ Login Successful!”

Else If ( Email1 = “Yes” AND Password1 = “No”) Then

Display “ Password / Email incorrect”

Else If ( Email1 = “No” AND Password1 = “Yes”) Then

Display “ Password / Email incorrect”

Else

Display “ Password / Email incorrect”

EndIf

While (Email1 = “No”)

While ( Password1 = “No” )

EndIf

Else

Display SignUp\_Form

Process Read (\*Email2, \*Password2, \*Address, \*Age)

If ( Age > 18) Then

Display BankDetail\_Form

Process Read (\*Bank\_Account, \*Bank\_Holder, \*Bank\_Branch)

EndIf

EndIf

Do

Do

Do

Display Home\_Page, Icon, Account\_Balance, Payment\_Method

If ( Payment\_Method = “Cash”) Then

Process Read (\*Series\_Number)

If ( Series\_Number = “Match”) Then

Display “Your Wallet Successful Top Up”

Else

Display “Your Series Number doesn’t correct”

EndIf

While (Series\_Number = “No”)

Else If ( Payment\_Method = “Bank Transfer”) Then

Do

Do

Process Read (\*Amount\_TopUp)

If ( Amount\_TopUp >= 5 ) Then

Display BankLogin\_Form

Do

Do

Process Read (\*Username1, \*Password3)

If ( Username1 = “Yes” AND Password3 = “Yes”) Then

Process Calc (Amount\_TopUp, Account\_Balance, \*Total\_Balance)

Process Print ( Total\_Balance, Series\_Number, Bank\_Holder)

Process Read (\*Confirmation)

While ( Confirmation = “No”)

Else If ( Username1 = “Yes” AND Password3 = “No”) Then

Display “Your Username/Password is incorrect”

Else If ( Username1 = “No” AND Password3 = “Yes”) Then

Display “Your Username/Password is incorrect”

Else

Display “Your Username/Password is incorrect”

EndIf

While ( Password3 = “No” )

While ( Username1 = “No” )

Else

Display “Your Top Up amount must be more than RM 5”

EndIf

While ( Amount\_TopUp <= 5)

EndIf

Process Print (Notification\_Payment)

Display QR\_Scan

Process Read (\*QR\_Code\_In)

If ( Account\_Balance >= 2) Then

Display “Thank You. Enjoy your ride!”

Process Read (\*Station)

While ( Counter < Station) Do

Process Calc (\*Payment)

Counter = Counter +1

EndWhile

Process Read (\*QR\_Code\_Out)

Process Calc (Account\_Balance, Payment, \*Net\_Balance)

Display “Thank you. Please, come again.”

Process Print (Notification)

Else

Display “Sorry, not enough change. Please top-up”

EndIf

While ( Account\_Balance < 2)

Display Exit\_Icon

Display “We will miss you, Are you sure?”

While ( Exit\_Icon = “No” )

End

Read (\*Internet\_Status)

Enter Internet\_Status

Exit

Read ( \*Member\_Status)

Enter Member\_Status

Exit

Read (\*Thumbprint\_Set)

Enter Thumbprint\_Set

Exit

Read (\*Email1, \*Password1)

Enter Email1, Password1

Exit

Read (\*Email2, \*Password2, \*Address, \*Age)

Enter Email2, Password2, Address, Age

Exit

Read (\*Bank\_Account, \*Bank\_Holder, \*Bank\_Branch)

Enter Bank\_Account, Bank\_Holder, Enter Bank\_Branch

Exit

Read (\*Series\_Number)

Enter Series\_Number

Exit

Read (\*Amount\_TopUp)

Enter Amount\_TopUp

Print Amount\_TopUp

Exit

Read (\*Username1, \*Password3)

Enter Username1, Password3

Exit

Calc (Amount\_TopUp, Account\_Balance, \*Total\_Balance)

Total\_Balance = Amount\_TopUp + Account\_Balance

Exit

Print ( Total\_Balance, Series\_Number, Bank\_Holder)

Print Total\_Balance, Series\_Number, Bank\_Holder

Exit

Read (\*Confirmation)

Enter Confirmation

Exit

Print (Notification\_Payment)

Print “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.”

Exit

Read (\*QR\_Code\_In)

Enter QR\_Code\_In

Exit

Read (\*Station)

Enter Station

Exit

Calc (\*Payment)

Payment = Payment +2

Exit

Read (\*QR\_Code\_Out)

Enter QR\_Code\_Out

Exit

Calc (Account\_Balance, Payment, \*Net\_Balance)

Net\_Balance = Account\_Balance – Payment

Exit

Print (Notification)

Print “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