ATM Withdrawal Algorithm

Start

↓

Insert ATM Card

↓

Enter PIN → Retry

↓

Vaidate PIN — Yes

↓ Yen

Select Transaction Type

Error

↓

Check Account Balance

↓

Dispense Cash

↓

Update Account Balance

↓

Eject Card

↓

End
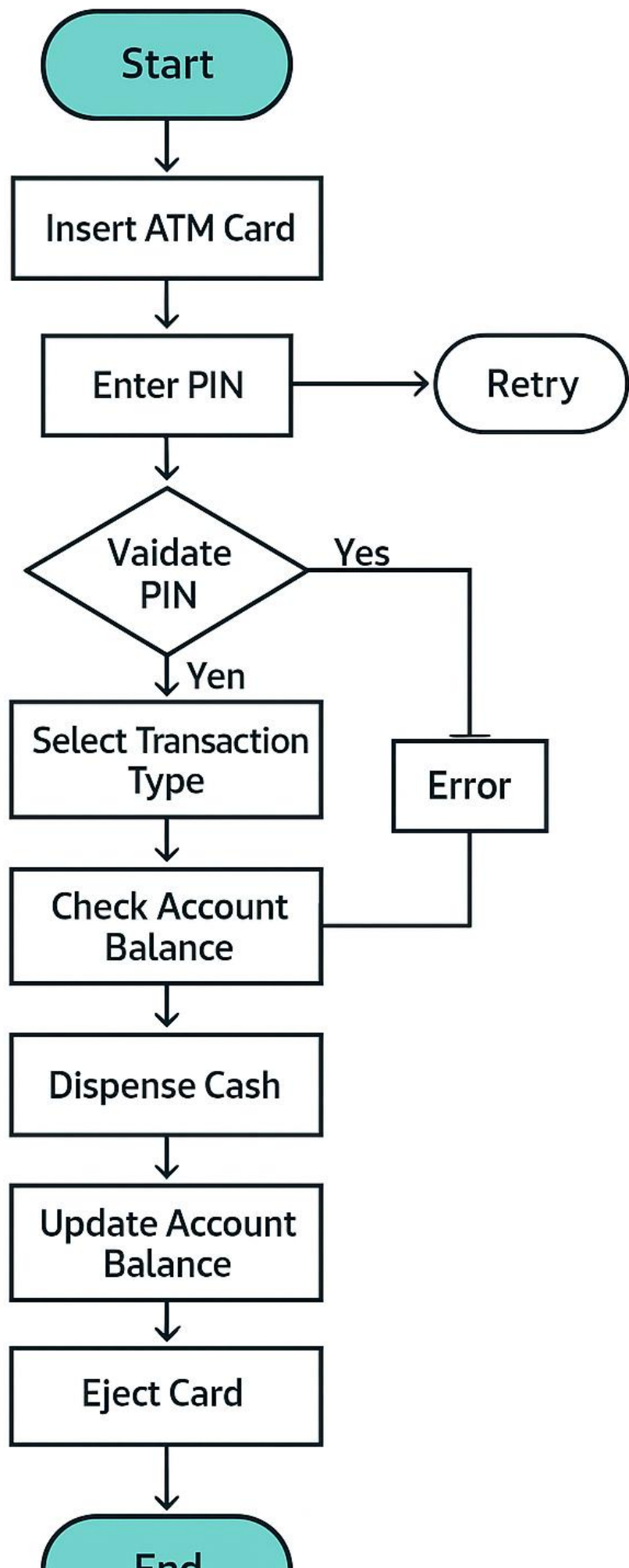
START

Insert ATM card

Prompt user to enter PIN

Read PIN

SET attempts = 1

WHILE PIN is incorrect AND attempts < 3

Display "Incorrect PIN, try again"

Read PIN

attempts = attempts + 1

IF attempts == 3

Display "Card blocked due to multiple incorrect attempts"

Eject card

STOP

Display "Select transaction type"

IF transaction type is Withdraw

Prompt user to enter withdrawal amount

Read amount

IF amount > account balance

Display "Insufficient funds"

Ask user to enter a different amount or exit

ELSE

Dispense cash

Print receipt (optional)

Deduct amount from balance

Update account

Display "Please collect your card"

Eject card

Display "Thank you for using our ATM"

END