

ATM Project Handout 4-4
Use Case Report: Deposit Funds

Version 1.0

Revision 2

Introduction

This is an example of what a structured use case report might look like. This example shows the Deposit Funds Use Case Report, after the first version (UC 3-2) has been structured to omit details that are now found in

- UC4-2 Identify Customer Use Case Report

In this example, we show the report as it might appear towards the end of developing it.

There are many styles of writing use cases. We show one style here, based on the template and guidelines for a use-case report in the Rational Unified Process.

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Revision History

Date	Version	Description	Author
15/03/2000	3.1a	Revised format for RUP 2000	J. Bell

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Use Case Report: Deposit Funds

1. Use Case Name: Deposit Funds

1.1 Brief Description

This use case describes how a Bank Customer uses an ATM to deposit money into his/her bank account. The Bank Customer puts the money in an envelope and inserts the envelope into the ATM. All envelopes are stored in a special safety box in the ATM for later verification by the Cashier.

2. Flow of Events

2.1 Basic Flow

1. Identify Customer

The Bank Customer's identity is verified as described in the included use case Identify Customer.

2. Select 'Deposit Funds'

The ATM displays the different alternatives that are available on this unit. The Bank Customer selects "Deposit Funds".

3. Enter Account and Amount

The ATM asks for account to deposit into and amount to deposit. The Bank Customer enters account and amount.

4. Deposit Money

The ATM asks the Bank Customer to put all bills in an envelope and insert it in the safety 'insert box'. The Bank Customer puts bills or a check in an envelope and inserts it in the deposit input. When the envelope is stored in the safety box the ATM prints the transaction id on the envelope.

5. Credit Bank Account

The ATM sends the card id, PIN, amount and account to the Bank Consortium. The Bank Consortium replies that the deposit is accepted. The ATM system notifies the Cashier that there is an accepted deposit in the ATM safety box.

6. Print Receipt

The ATM system prints the receipt.

7. Receive Card

The ATM system returns the Bank Card to the Bank Customer. The use case ends.

2.2 Alternative Flows

2.2.1 Cash is inserted without an envelope

In Step 4, Deposit Money, of the basic flow, if the Bank Customer inserts bills without an envelope, the top bill will be marked with the transaction number the and other bills not.

This is not good. Will we develop some HW that puts each deposit in some kind of wrapping?

2.2.2 Two or more envelopes are inserted

In Step 4, Deposit Money, of the basic flow, two envelopes are inserted. If the Bank Customer inserts several envelopes the ATM can't detect it. One envelope will be marked and the others not.

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2.2.3 No envelope is inserted

In Step 4, Deposit Money, of the basic flow, no envelope is inserted. The time out is 1 minute; if there is no envelope after that time then a warning signal will sound, and a new message requiring an envelope displayed. If there still is no envelope, the transaction is terminated. The ATM keeps the card and notifies the Bank Customer. The use case ends.

2.2.4 Wrong account

In Step 5, Credit Bank Account, of the basic flow, the Bank Consortium indicates the card is valid but the Bank Customer specified an account that does not exist or is not connected to the card. The result will be an error message "Sorry wrong account" and the Bank Customer has to restart in Step 3 of the basic flow.

2.2.5 No contact with Cashier

In Step 5, Credit Bank Account, of the basic flow, if the ATM cannot contact the Cashier then the ATM displays a message to the Bank Customer that the connection to the Cashier was lost and 'Try again later', the Bank Card and cash envelope are returned, and the use case ends.

3. Special Requirements

None specified for this use case.

4. Pre-Conditions

None specified for this use case.

5. Post-Conditions

5.1 Card return

At the end of this use case, either the Bank Customer will have their bank card returned or the bank card will be kept and the Bank Customer will be notified of where it will be sent.

5.2 Accounts balanced

At the end of the use case, all account and transaction logs are balanced, and communication with the banking system is reinitialized.

6. Extension Points

None specified for this use case.

7. Relationships

7.1 Actors

The Actor starting this Use Case is:

Bank Customer

Actor(s) also involved in this Use Case:

Bank Consortium

Cashier

Maintenance crew

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Police alarm central

7.2 Associations TO other Use Cases

Use Cases included by this Use Case (outgoing Include associations)

Identify Customer

Use Cases extended by this Use Case (outgoing Extend associations)

None

7.3 Associations FROM other Use Cases

Use Cases including this Use Case (incoming Include associations)

None

Use Cases extending this Use Case (incoming Extend associations)

None

8. Use Case Diagrams

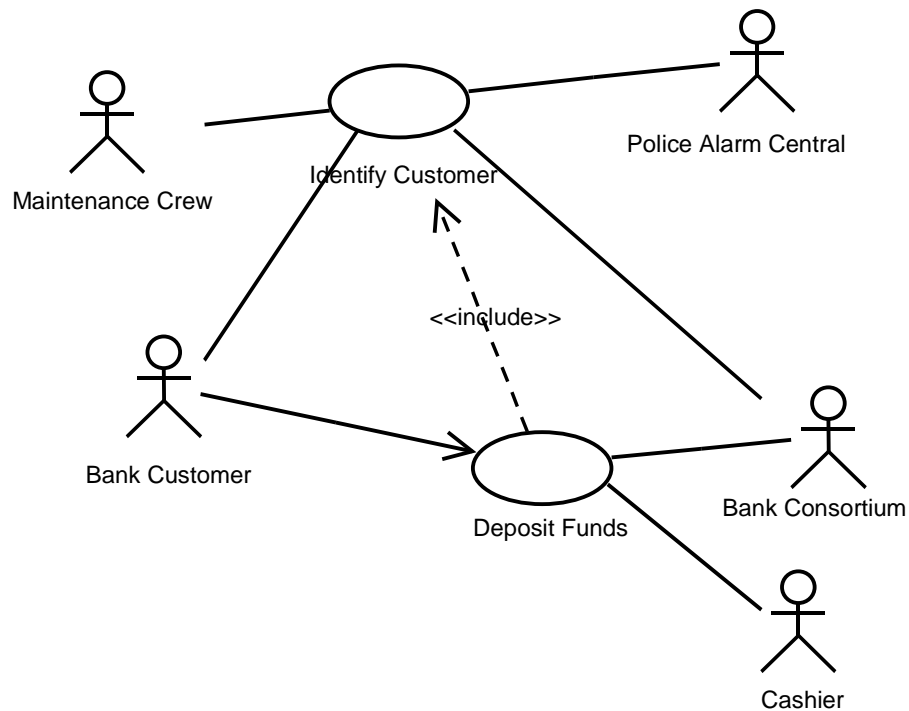


Figure 1: Local Use-Case Diagram for Withdraw Cash Use Case

9. Other Diagrams

None specified for this use case.