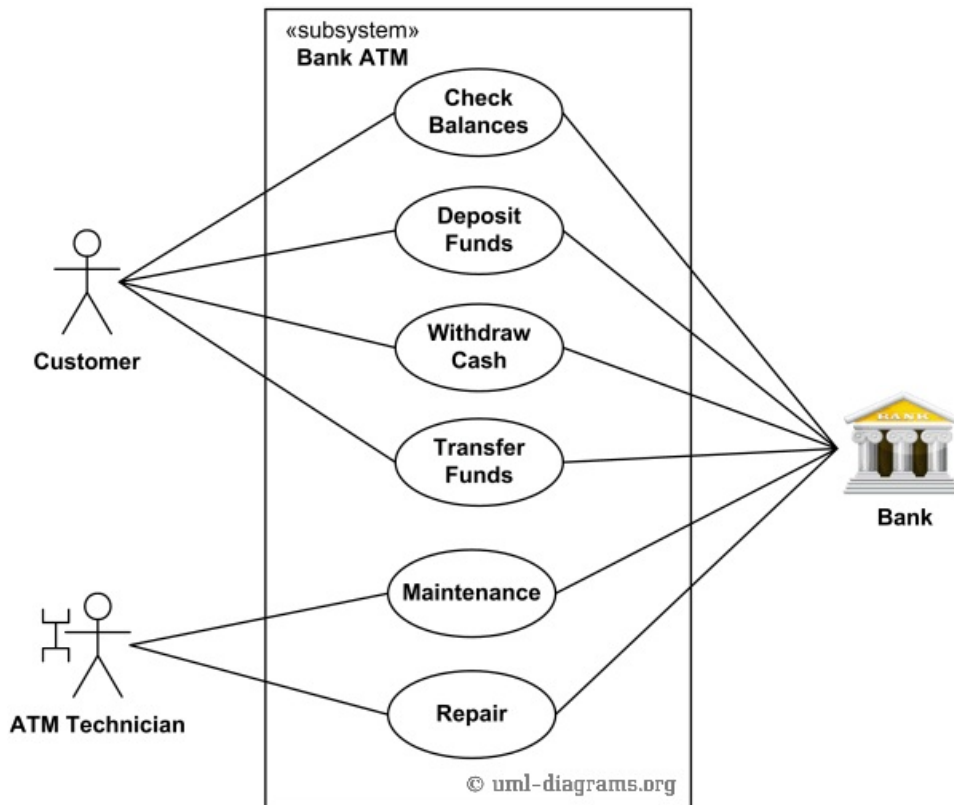


Bank ATM

UML Use Case Diagram Examples

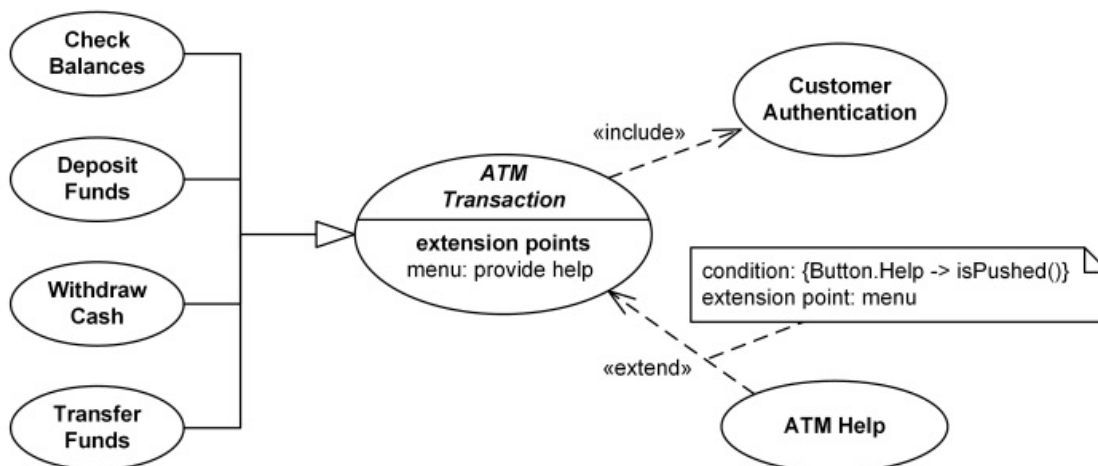
An automated teller machine (**ATM**) or the automatic banking machine (**ABM**) is a banking subsystem (**subject**) that provides bank customers with access to financial transactions in a public space without the need for a cashier, clerk, or bank teller.

Customer (actor) uses bank ATM to *Check Balances* of his/her bank accounts, *Deposit Funds*, *Withdraw Cash* and/or *Transfer Funds* (**use cases**). **ATM Technician** provides *Maintenance* and *Repairs*. All these use cases also involve *Bank* actor whether it is related to customer transactions or to the ATM servicing.



An example of use case diagram for Bank ATM subsystem - top level use cases.

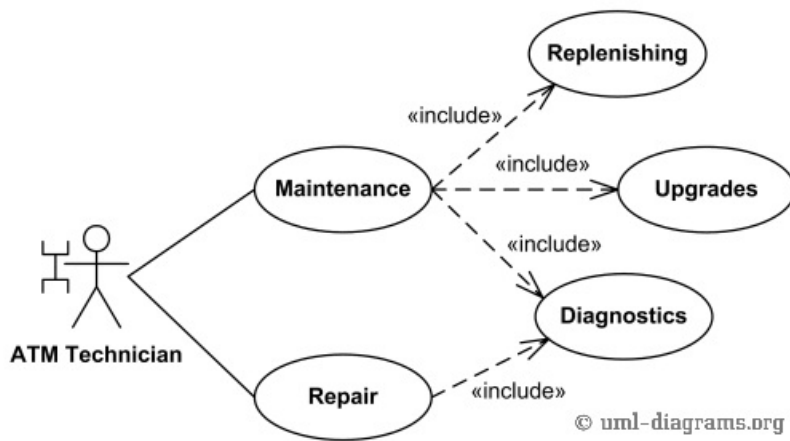
On most bank ATMs, the customer is authenticated by inserting a plastic ATM card and entering a personal identification number (PIN). *Customer Authentication* use case is required for every ATM transaction so we show it as **include** relationship. Including this use case as well as transaction **generalizations** make the *ATM Transaction* an **abstract use case**.



Bank ATM Transactions and Customer Authentication Use Cases Example.

Customer may need some help from the ATM. *ATM Transaction* use case is **extended** via **extension point** called *menu* by the *ATM Help* use case whenever *ATM Transaction* is at the location specified by the *menu* and the bank customer requests help, e.g. by selecting

Help menu item.



Bank ATM Maintenance, Repair, Diagnostics Use Cases Example.

ATM Technician maintains or repairs Bank ATM. *Maintenance* use case includes *Replenishing* ATM with cash, ink or printer paper, *Upgrades* of hardware, firmware or software, and remote or on-site *Diagnostics*. *Diagnostics* is also **included** in (shared with) *Repair* use case.

Noticed a spelling error? Select the text using the mouse and press Ctrl + Enter.



This document describes UML versions up to **UML 2.5** and is based on the corresponding **OMG™ Unified Modeling Language™ (OMG UML®)** specifications. UML diagrams were created in **Microsoft® Visio®** 2007-2016 using **UML 2.x Visio Stencils**. **Lucidchart** is a nice, free UML tool that I recommend for students.

You can send your comments and suggestions to [webmaster](mailto:webmaster@uml-diagrams.org) at webmaster@uml-diagrams.org.

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