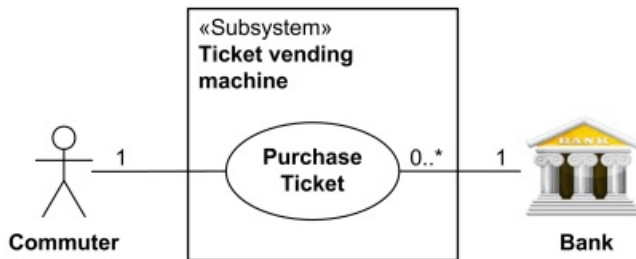


# Ticket Vending Machine

## UML Use Case Diagram Example

**Ticket vending machine**, i.e. vending machine that sells and produces tickets to commuters, is a **subject** of the example use case diagram. This kind of a machine is a combination of both hardware and software, and it is only a part of the whole system selling tickets to the customers. So we will use «**Subsystem**» stereotype.

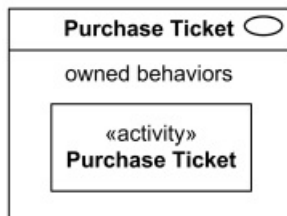
Ticket vending machine allows commuters to buy tickets. So **Commuter** is our primary **actor**.



*Ticket vending machine provides Purchase Ticket use case for the Commuter and Bank actors.*

The ultimate goal of the Commuter in relation to our ticket vending machine is to buy a ticket. So we have **Purchase Ticket use case**. Purchasing ticket might involve a bank, if payment is to be made using a debit or credit card. So we are also adding another actor - **Bank**. Both actors participating in the use case are connected to the use case by association.

Use case **behaviors** may be described in a natural language text (opaque behavior), which is current common practice, or by using UML **behavior diagrams**. UML tools should allow binding behaviors to the described use cases. Example of such binding of the Purchase Ticket use case to the behavior represented by activity is shown below using UML 2.5 notation.



*Purchase Ticket use case owns behavior represented by Purchase Ticket activity.*

➡ [Ticket vending machine activity diagram](#)

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



This document describes **UML 2.5** and is based on **OMG™ Unified Modeling Language™ (OMG UML®) 2.5** specification [\[UML 2.5 RTF - Beta 2\]](#).

All UML diagrams were created in **Microsoft Visio** 2007-2016 using [UML 2.2 stencils](#). You can send your comments and suggestions to [webmaster](mailto:webmaster@uml-diagrams.org) at [webmaster@uml-diagrams.org](mailto:webmaster@uml-diagrams.org).

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