

Online Shopping

UML Component Diagram Example

An example of UML 2.5 component diagram for online shopping. The diagram shows "white-box" view of the internal structure of three related subsystems - WebStore, Warehouses, and Accounting. In UML «Subsystem» is a standard component stereotype for larger components, usually containing some smaller components. Stereotypes are categories of objects or people.

WebStore subsystem contains three components related to online shopping - **Search Engine**, **Shopping Cart**, and **Authentication**. **Search Engine** component allows to search or browse items by exposing provided interface **Product Search** and uses required interface **Search Inventory** provided by **Inventory** component. **Shopping Cart** component uses **Manage Orders** interface provided by **Orders** component during checkout.

Authentication component allows **customers** to create **account**, **login**, or **logout** and **binds** customer to some **account**.

Accounting subsystem **provides** two **interfaces** - **Manage Orders** and **Manage Customers**. Delegation connectors link these external contracts of the subsystem to the realization of the contracts by **Orders** and **Customers** components.

Warehouses subsystem **provides** two **interfaces** **Search Inventory** and **Manage Inventory** used by other **subsystems** and wired through dependencies.

***Online shopping UML component diagram
example with three related subsystems -
WebStore, Warehouses, and Accounting.***

