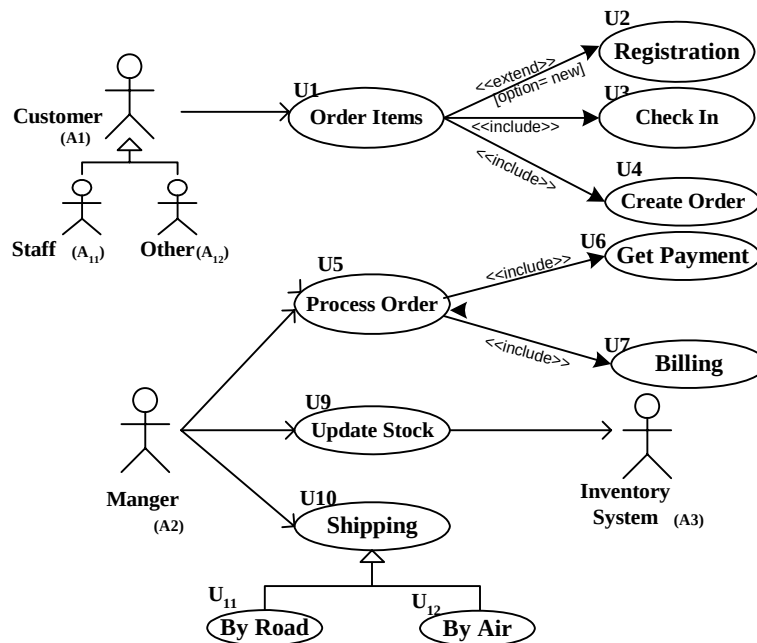
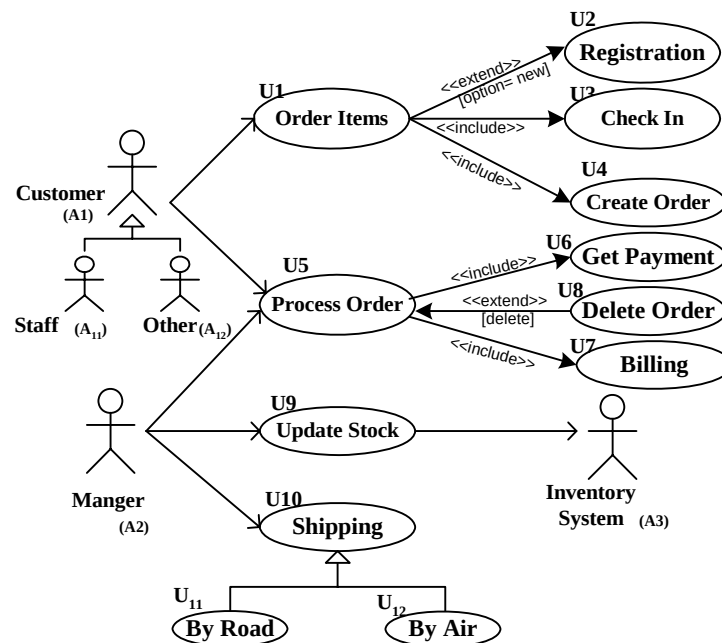


Creating Use Case for On-line Purchase System (OLP)



Use case diagram for OLP



Use case diagram of OLP with “Delete Order”

Use case: Order Items

Scenario 1: Option is new

Prompt for "Registration"

Call "Registration" // *Extend Registration use case*

Display registration status

Exit

Scenario 2: Option is login

Call "Check In" // *Include Check In use case*

Alternative 2.1: Login is valid

Prompt for "Item Details"

Call "Create Order" // *Include Create Order use case*

Display order status

Exit

Alternative 2.2: Login is invalid

Display login fail

Exit

Use case: Registration

Scenario 1: Customer is a staff member

Select customer type as staff.

Get data for a customer as staff.

Check the validity of the staff customer.

Alternative 1.1: Disqualify the validity of a staff

Message "Registration fail".

Alternative 1.2: Qualify the validity of a staff

Check for already registered customer.

Alternative 1.2.1: Registration exist

Message "Registration fail".

Alternative 1.2.1: Registration does not exist

Message "Registration successful".

Create a new customer c.

Update record with c.

Scenario 2: Customer is other than staff

Select customer type as other.

Get data for a customer as other.

Check for already registered customer.

Alternative 2.1: Registration exist

Message "Registration fail".

Alternative 2.2: Registration does not exist

Message "Registration successful".

Create a new customer c.

Update record with c.

Use Case Template: Documenting Use Cases in the Use Case Model

Use cases are documented in the use case model following a use case template. The structure of the use case template is shown below.

Use Case Template	
Use Case Name	Each use case is given a name.
Summary	A brief description of the use case, typically one or two sentences.
Actors	This section names the actors in the use case. There is always a primary actor who initiates the use case. In addition, there may be secondary actors who also participate in the use case.
Preconditions	One or more conditions that must be true at the start of use case; for example, the ATM machine is idle, displaying a welcome message.
Description	The bulk of the use case is a narrative description of the main sequence of the use case, which is the most usual sequence of interactions between the actor and the system. The description is in the form of the input from the actor, followed by the response of the system. The system is treated as a black box, that is, dealing with what the system does in response to the actor's inputs, not the internals of how it does it.
Alternatives	Narrative description of alternative branches off the main sequence. There may be several alternative branches from the main sequence. For example, if the customer's account has insufficient funds, display apology and eject card.
Postcondition	Condition that is always true at the end of the use case if the main sequence has been followed; for example, customer's funds have been withdrawn.
Dependencies	This optional section describes whether the use case depends on other use cases, that is, whether it includes or extends another use case.

Example:

Use Case Name	Borrow Book
Summary	This use case describes how a library user selects and then borrows a book from the library.
Actors	Borrower
Preconditions	None
Description	1. The user selects the search function from the main menu. 2. The system displays the search form. 3. The user enters the title of a book (possibly using wild-cards). 4. The library system presents a list of all matching books 5. The user selects a book. 6. The system displays the detail view for this book. 7. The user selects borrow from the menu for this book. 8. The user is already logged in. The system issues a message to the archive that the book is reserved for the user.
Alternatives 1	3.1 The user enters the name of the author. 3.2 The user selects the author from an author list. 3.2.1 The user clicks on “select author”. 3.2.2 The system displays a selection list of all authors. 3.2.3 The user selects an author from the list.
Alternatives 2	4.1 There are no matches to the query. 4.2 The system returns to the main screen.
Alternatives 3	8.1 The user is not logged in. 8.2 The user logs in as described in Log in.
Postcondition	The user is registered as the borrower of the book in the library system.
Dependencies	Log in

Use Case Name	Log in
Summary	This use case describes how a library user logs into the system to prove his identity.
Actors	Borrower
Preconditions	None
Description	1. The user selects log in from the main menu. 2. The system asks the user for his login name. 3. The user enters his login name. 4. The system asks the user for his password. 5. The user enters his password. 6. The system verifies login and password. They are ok. 7. The system logs the user on.
Alternatives 1	6.1 The combination of login and password is not valid. 6.1.1 If the number of retries is not exceeded, repeat the use case from step 2.
Postcondition	The user is logged in.
Dependencies	None