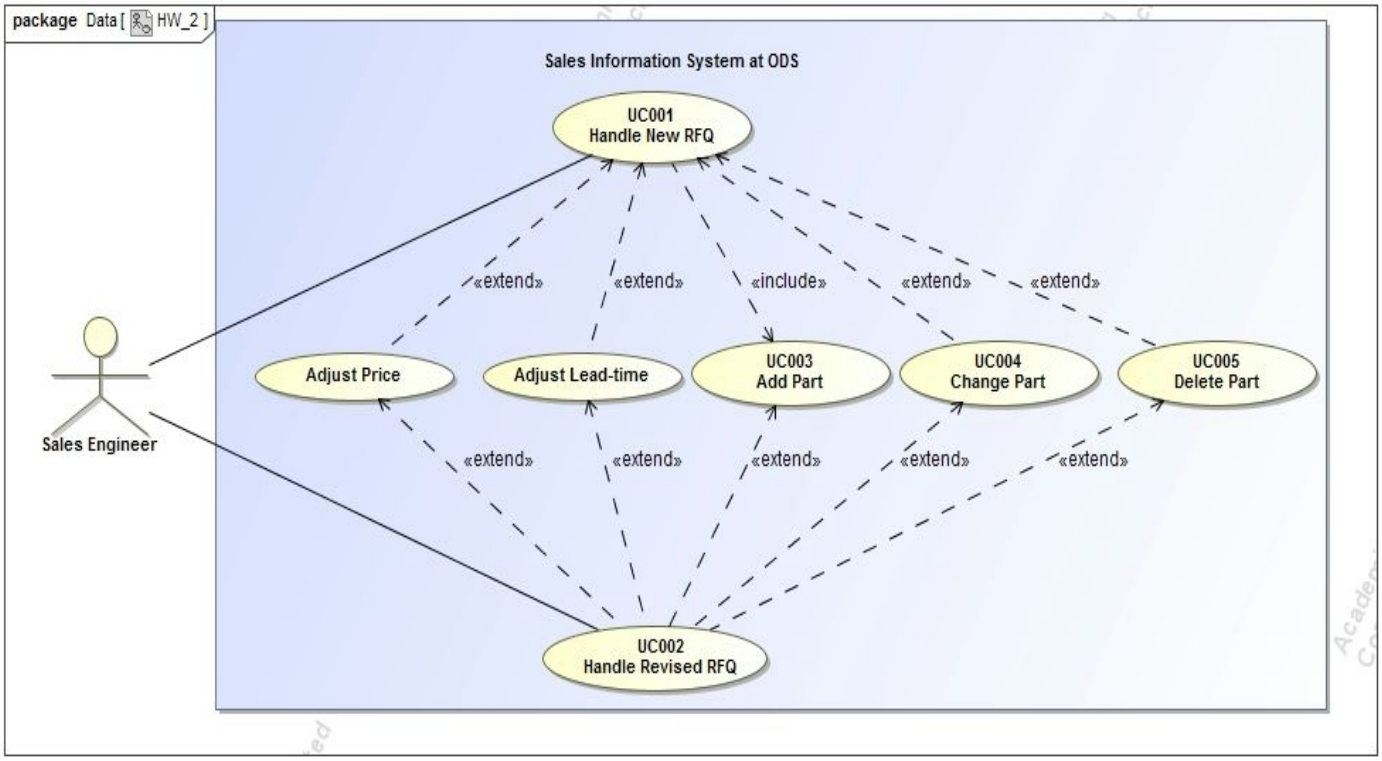
Use Case Diagram



UC001 Handle New RFQ

Use Case ID:	UC001
Use Case Name:	Handle New RFQ

Actors:	Sales Engineer
Description:	Sales Engineer enters the details of received RFQ into the sales information system.
Trigger:	1. Sales Engineer pushes button ‘New Order’
Preconditions:	1. Sales Engineer is logged in. 2. Sales Engineer has received RFQ from a customer.
Postconditions:	1. Order is saved and a costed BOM is produced.
Normal Flow:	1. Sales Engineer creates new customer order. 2. Sales Engineer enters RFQ reference number, customer data and the assembly drawing. 3. System records data and creates an empty BOM. 4. Sales Engineer enters the details of the top assembly (Level 0) 5. System records data and updates BOM. 6. Sales Engineer enters the details of a sub-assembly or a electronic component (UC003). *Sales Engineer repeats step 4. until all sub-assemblies and electronic components are listed.* 7. System calculates and presents the total cost. 8. Engineer marks BOM as final. 9. System calculates and presents the lead time. 10. Sales Engineer concludes the order.
Alternative Flows:	4.a Sales Engineer detects he entered invalid data in Step 2 1. Sales Engineer makes necessary changes regarding RFQ reference number, customer data and the assembly drawing. 2. UC is continued from Step 3. 8.a Sales Engineer adjusts the price of a sub-assembly. 1. Sales Engineer manually enters new price for a sub-assembly. *Sales Engineer repeats previous step until all necessary prices are updated.* 2. UC is continued from Step 7. 8.b Sales Engineer detects he entered invalid details in Step 6

	1. Sales Engineer makes necessary modifications (UC003, UC004, UC005). *Previous step is repeated until all necessary changes are done.* 2. UC is continued from Step 7. 10.a Sales Engineer adjusts the lead time of a sub-assembly. 1. Sales Engineer manually enters new lead time for a sub-assembly. *Sales Engineer repeats previous step until all necessary prices are updated.* 2. UC is continued from Step 9.
Exceptions:	*a At any time: System fails 1. Sales Engineer restarts the system and logs in. 2. System reconstructs the prior state.
Includes:	UC003, UC004, UC005
Notes and Issues:	N/A

UC002 Handle Revised RFQ

Use Case ID:	UC002
Use Case Name:	Handle Revised RFQ

Actors:	Sales Engineer
Description:	Sales Engineer has received a revised RRQ and needs to adjust customer order.
Trigger:	1. Sales Engineer pushes button ‘Change Order’
Preconditions:	1. Sales Engineer is logged in. 2. RFQ has been previously entered into system (UC001) 3. Sales Engineer has received a revised RFQ.
Postconditions:	1. Customer order is updated.
Normal Flow:	1. Sales Engineer enters RQF identifier. 2. System displays the customer order. 3. Sales Engineer changes assembly drawing or customer data. 4. System records data and updates order. 5. Sales Engineer makes necessary changes regarding BOM (UC003, UC004 or UC005). *Sales Engineer repeats Step 5 until all changes are made.* 6. System calculates and presents the total cost. 7. Sales Engineer marks the BOM as final. 8. System calculates and presents the lead time. 9. Sales Engineer concludes the order.
Alternative Flows:	2.a Customer order is not found in the system 1. System displays error. 2. Sales Engineer quits UC. 3.a No changes regarding customer data and the assembly drawing 1. UC is continued from Step 4. 5.a Sales Engineer detects he entered invalid data in Step 3. 1. Sales Engineer makes necessary changes regarding customer data and the assembly drawing. 2. UC is continued from Step 4. 5.b No changes regarding the BOM.

	1. UC is continued from Step 7. 7.a Sales Engineer adjusts the price of a sub-assembly. 1. Sales Engineer manually enters new price for a sub-assembly. *Sales Engineer repeats previous step until all necessary prices are updated.* 2. UC is continued from Step 7. 7.b Sales Engineer detects he entered invalid details in Step 5 1. Sales Engineer makes necessary modifications (UC003, UC004, UC005). *Previous step is repeated until all necessary changes are done.* 2. UC is continued from Step 7. 9.a Sales Engineer adjusts the lead time of a sub-assembly. 1. Sales Engineer manually enters new lead time for a sub-assembly. *Sales Engineer repeats previous step until all necessary prices are updated.* 2. UC is continued from Step 8.
Exceptions:	*a At any time: System fails 1. Sales Engineer restarts the system and logs in. 2. System reconstructs the prior state.
Includes:	UC003, UC004, UC005
Notes and Issues:	N/A

UC003 Add Part

Use Case ID:	UC003
Use Case Name:	Add Part

Actors:	Sales Engineer
Description:	Sales Engineer enters the details of a part (sub-assembly/ component) into the sales information system.
Trigger:	1. Sales Engineer pushes button ‘Add’.
Preconditions:	1. Sales Engineer is logged in. 2. BOM is displayed. 3. Top assembly (Level 0) is entered.
Postconditions:	1. New part is entered and the BOM is updated.
Normal Flow:	1. Sales Engineer enters following data: Level, parent assembly Part Number, UOM, Notes, Reference Designators, Procurement Type (PTS, MTS), PCB. 2. Sales Engineers saves data. 3. System updates the BOM and new part is listed.
Alternative Flows:	1.a Sales Engineer notices the part does not need to be added. 1. Sales Engineer does not save the data and cancels modifications. 2. UC is finished.
Exceptions:	*a At any time: System fails 1. Sales Engineer restarts the system and logs in. 2. System reconstructs the prior state.
Includes:	N/A
Notes and Issues:	N/A

UC004 Change Part

Use Case ID:	UC004
Use Case Name:	Change Part

Actors:	Sales Engineer
Description:	Sales Engineer changes the details about a part (sub-assembly/ component).
Trigger:	1. Sales Engineer selects a part from the displayed BOM and pushes button ‘Change’’.
Preconditions:	1. Sales Engineer is logged in. 2. BOM is displayed. 3. Sales Engineers wants to change at least one detail (Level, parent assembly Part Number, UOM, Notes, Reference Designators, Procurement Type (PTS, MTS), PCB) of a previously entered part.
Postconditions:	1. Part is changed and the BOM is updated.
Normal Flow:	1. Sales Engineer makes necessary changes regarding following details: Level, parent assembly Part Number, UOM, Notes, Reference Designators, Procurement Type (PTS, MTS), PCB. 2. Sales Engineers saves data. 3. System updates the BOM and updated part is listed in the BOM.
Alternative Flows:	1.a Sales Engineer notices the part does not need to be changed. 1. Sales Engineer does not save the data and cancels modifications. 2. UC is finished.
Exceptions:	*a At any time: System fails 1. Sales Engineer restarts the system and logs in. 2. System reconstructs the prior state.
Includes:	N/A
Notes and Issues:	N/A

UC005 Delete Part

Use Case ID:	UC005
Use Case Name:	Delete Part

Actors:	Sales Engineer
Description:	Sales Engineer deletes the details of a part (sub-assembly/ component) from the sales information system.
Trigger:	1. Sales Engineer selects a part from the displayed BOM and pushes button ‘Delete’’.
Preconditions:	1. Sales Engineer is logged in. 2. BOM is displayed. 3. Sales Engineer wants to delete a part.
Postconditions:	1. Part is deleted and the BOM is updated.
Normal Flow:	1. Sales Engineer deletes following data about the part: Level, parent assembly Part Number, UOM, Notes, Reference Designators, Procurement Type (PTS, MTS), PCB. 2. Sales Engineers saves changes. 3. System deletes the data about sub-assemblies and electronic components based on parent assembly Part Number. 4. System updates the BOM and the part is deleted from the BOM.
Alternative Flows:	1.a Sales Engineer notices the part does not need to be deleted. 1. Sales Engineer does not save the data and cancels the deletion. 2. UC is finished.
Exceptions:	*a At any time: System fails 1. Sales Engineer restarts the system and logs in. 2. System reconstructs the prior state.
Includes:	N/A
Notes and Issues:	N/A