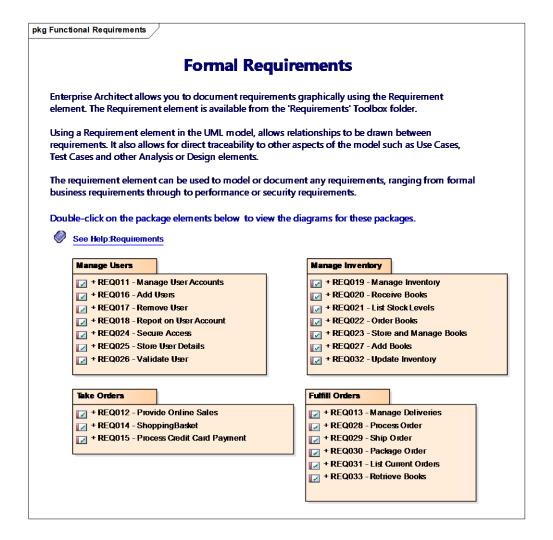
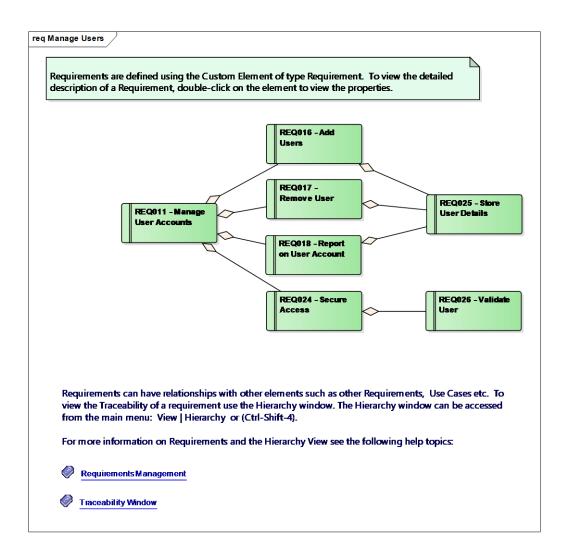
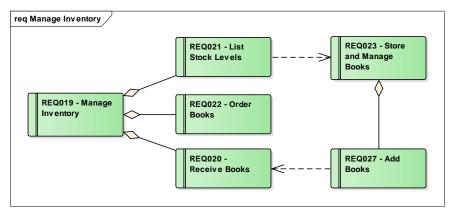
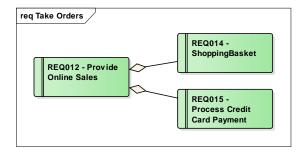
Requirements Model

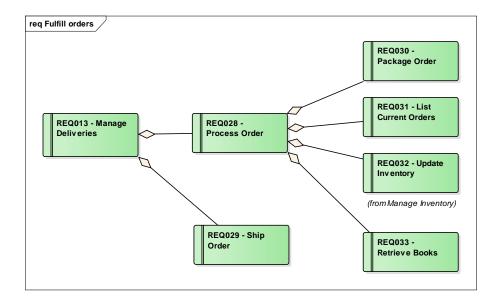
Formal Requirements



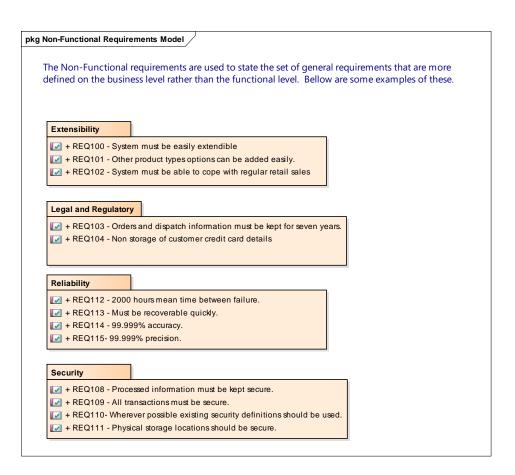


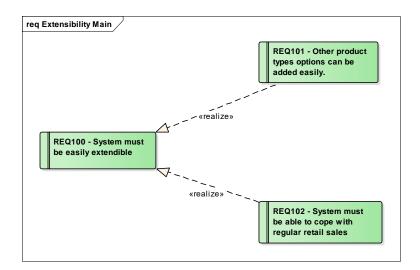




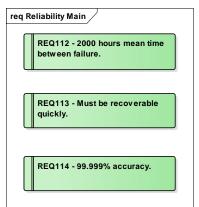


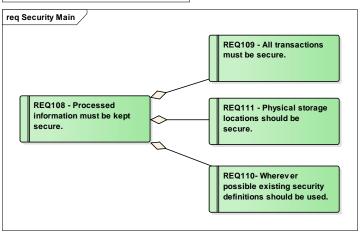
Non-Functional Requirements Model



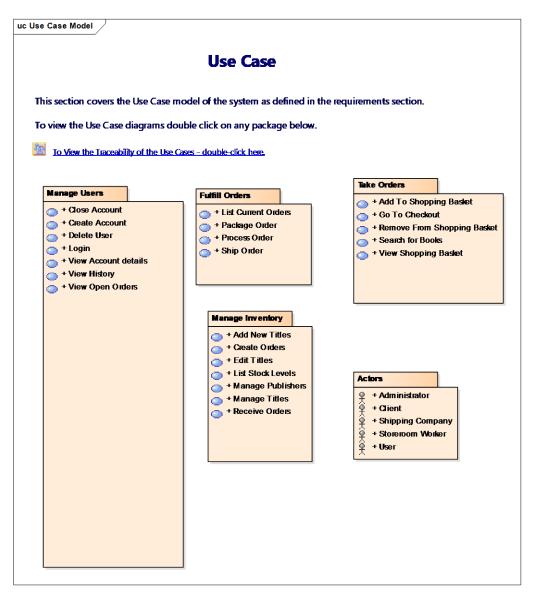


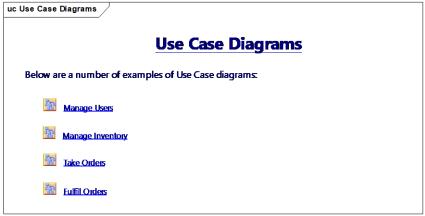


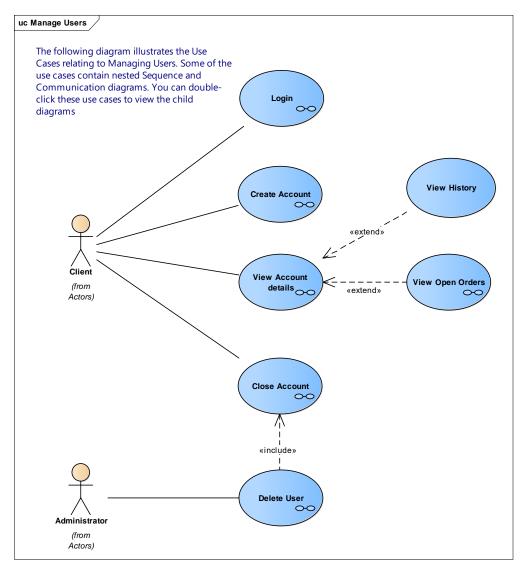


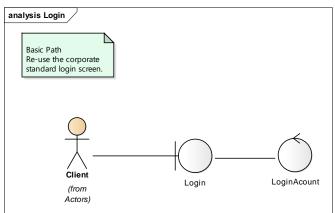


Use Case Model









sd Create Account

Basic Path

- Basic Path

 1. Use case begins when the Client selects the
 "Create Account" command.

 2. The Client enters name, address, e-mail
 address, password and password confirmation.

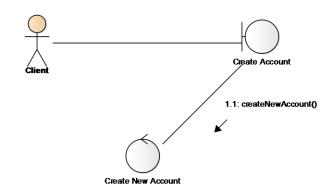
 3. Client presses Submit button.

 4. Submitted details are validated.

 5. Processing message is displayed to the
 Client.

 6. New account is created in the database.

 7. Success message is displayed to Client.



No Submit

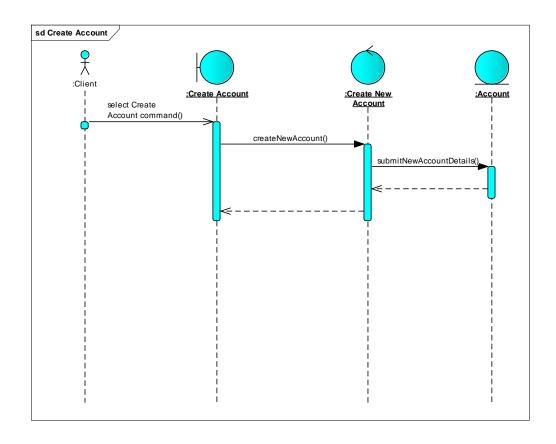
The Client may press the Exit or Back button at step 3. The use case terminates with no action performed.

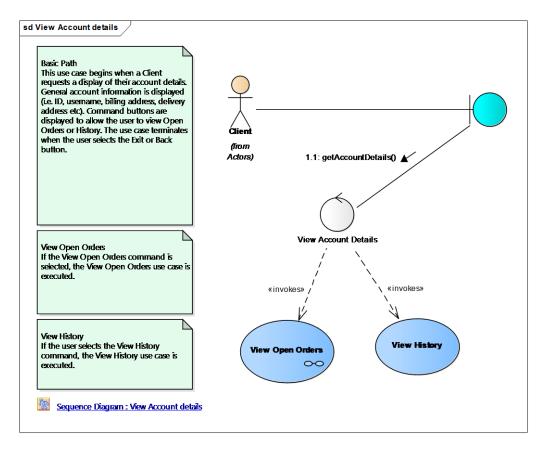
Validation fails
At step 4, if validation fails then an error message is displayed and the Client is returned to step 2 with the invalid field or fields highlighted.

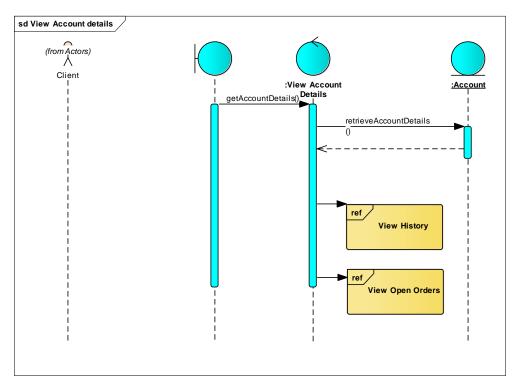
Cannot Create New Account
In step 6, if the database create fails, the Client is informed and the use case terminates.

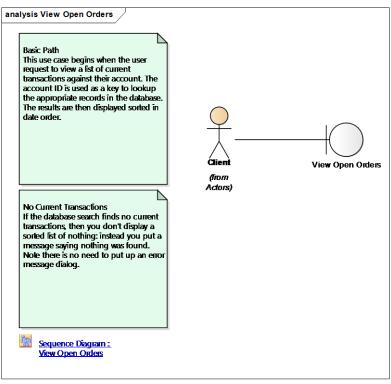


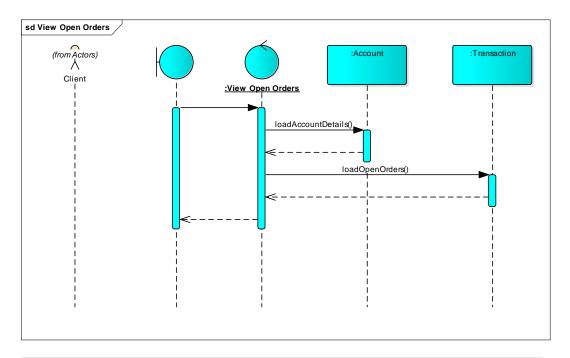
Sequence Diagram: Create Account











sd Close Account

Basic Path - Client

The use case starts when a Client selects the Close Account command from the Account Close Account command from the Account Details Screen. The system will load the Client's account details and check whether the Client has any outstanding orders. If not, the Client is shown a Confirmation Dialog. If the Client replies yes, the account is marked as closed. Note that none of the details are removed from the system, for auditing purposes.

Basic Path - Administrator

This scenario is the same as "Basic Path – Client" except that the user is Administrator and instead of closing the account for the current user, it could be for any user of the system.

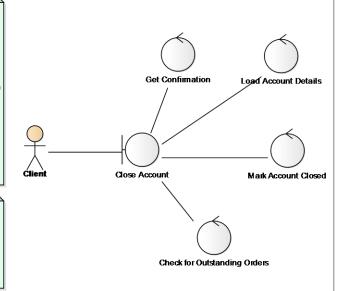
No to Close

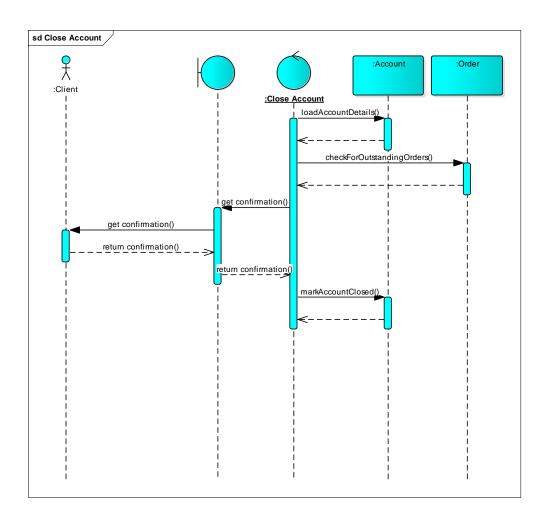
If the user replies "No" to the "Are You Sure?" dialog, a message is displayed confirming that nothing has been changed and then the use case terminates.

Outstanding Transactions
If the account has any outstanding transaction
a message is displayed to the effect that the
account cannot be closed, giving the reasons.



Sequence Diagram: Close Account





sd Delete User

Basic Path

This use case begins when an Administrator selects Ints use case begins when an Administrator selects the Delete User command. The Administrator is prompted to enter a user ID. The ID is used to retrieve the user's name and address which are displayed on the user's name and address which are displayed on that they want to delete this particular user and asked to re-enter their password as an added security measure. The Close Account use case is executed to perform the closure and that use case will display the perform the closure and that use case is executed to perform the closure and that use case will display the success or failure notification. The administrator is able to enter another user ID and repeat the process. The use case terminates when the administrator selects the Back or Exit button.

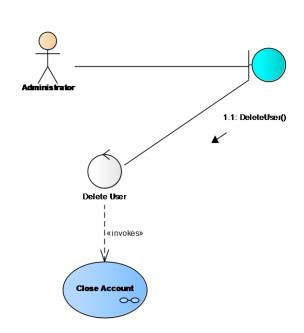
If the user ID doesn't match any existing account, an error message is displayed and the administrator is prompted to re-enter it.

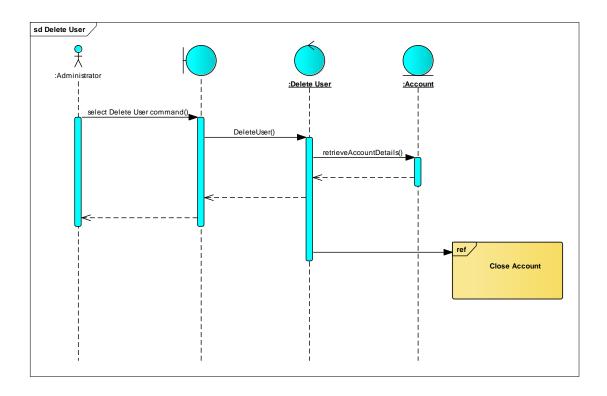
Bad password
If the administrator enters an incorrect password, an error message is displayed and the administrator is allowed a maximum of two more attempts before the use case terminates.

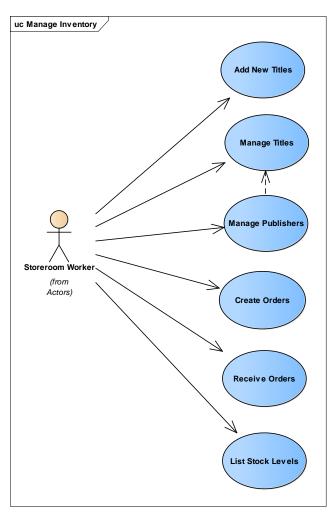
No confirm

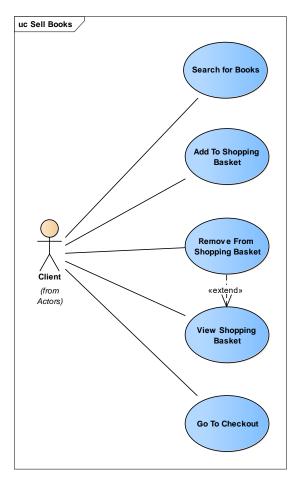
If the administrator answers No to the Are You Sure request, it is assumed that the wrong user ID was entered so the user ID is cleared and the administrator is permitted to try again.

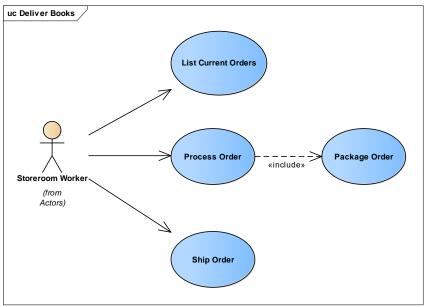
Sequence Diagram : Delete User



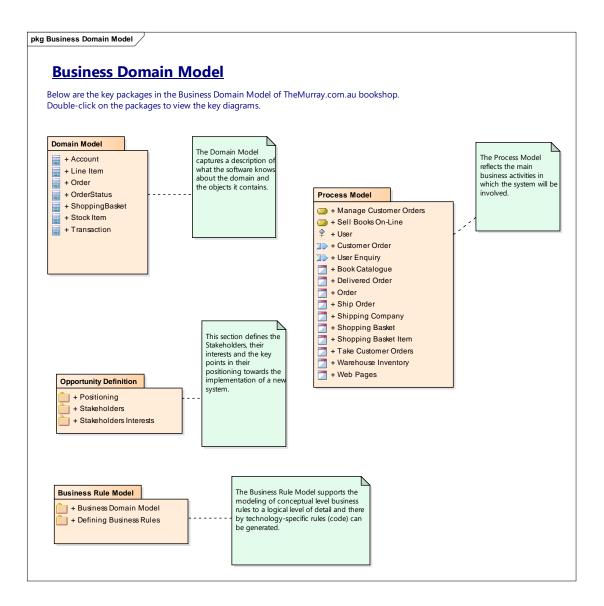


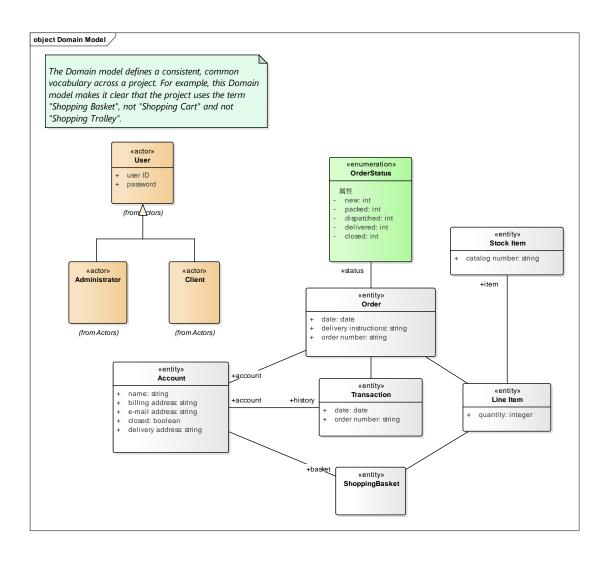


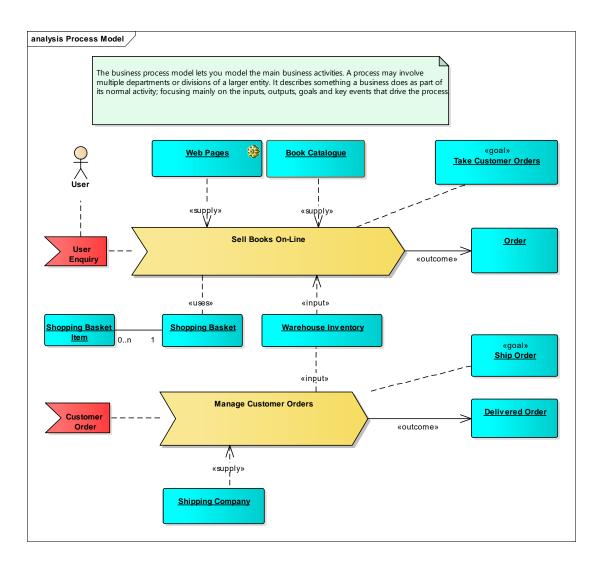


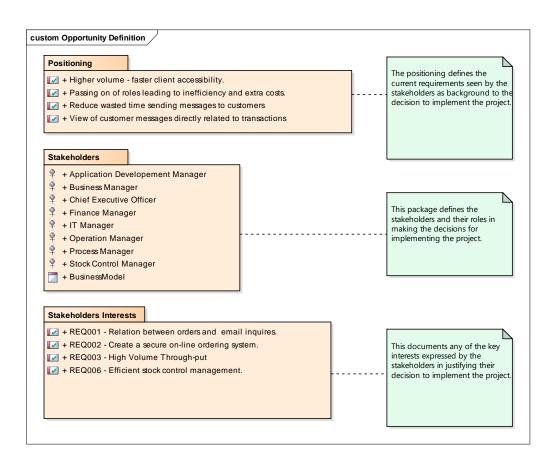


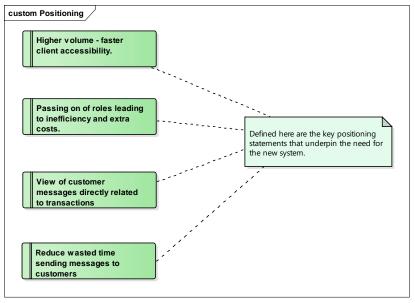
Business Domain Model

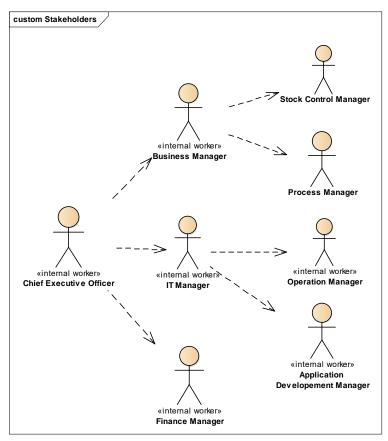


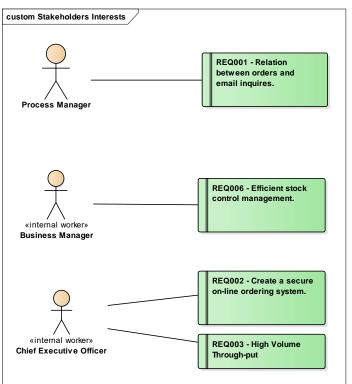






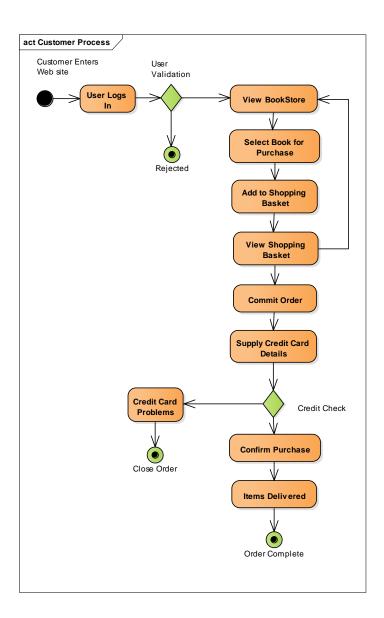


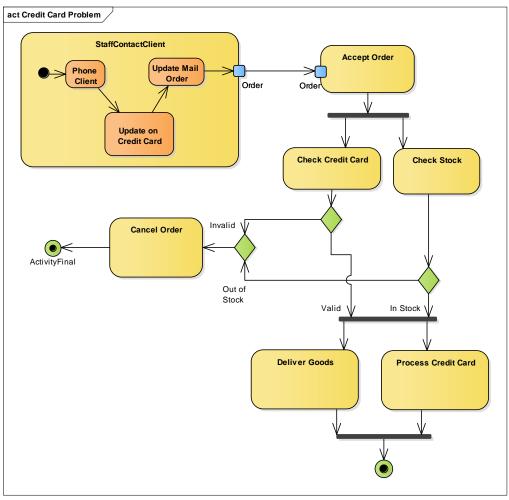


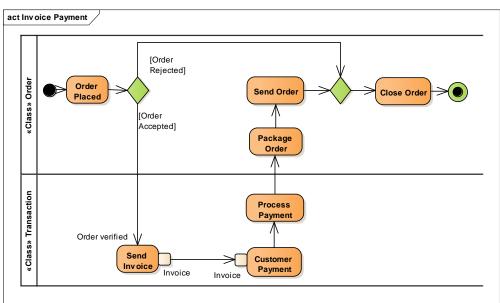


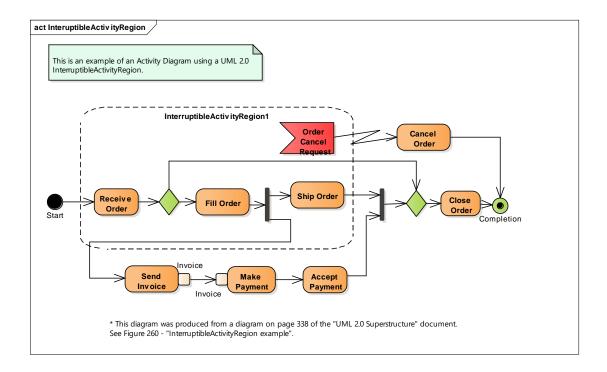
UML Behavior Diagrams

Activity Diagrams

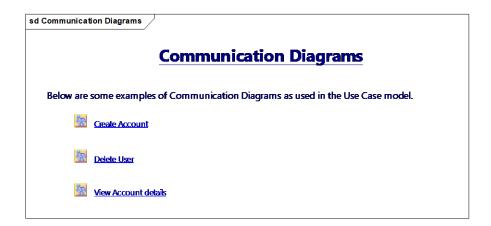








Communication Diagrams



sd Create Account

Basic Path

- Basic Path

 1. Use case begins when the Client selects the
 "Create Account" command.

 2. The Client enters name, address, e-mail
 address, password and password confirmation.

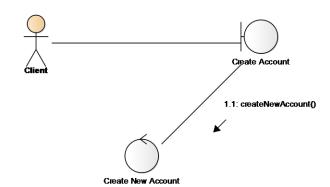
 3. Client presses Submit button.

 4. Submitted details are validated.

 5. Processing message is displayed to the
 Client.

 6. New account is created in the database.

 7. Success message is displayed to Client.



No Submit

The Client may press the Exit or Back button at step 3. The use case terminates with no action performed.

Validation fails
At step 4, if validation fails then an error message is displayed and the Client is returned to step 2 with the invalid field or fields highlighted.

Cannot Create New Account
In step 6, if the database create fails, the Client is informed and the use case terminates.



Sequence Diagram: Create Account

sd Delete User

Basic Path

This use case begins when an Administrator selects Ints use case begins when an Administrator selects the Delete User command. The Administrator is prompted to enter a user ID. The ID is used to retrieve the user's name and address which are displayed on the user's name and address which are displayed on that they want to delete this particular user and asked to re-enter their password as an added security measure. The Close Account use case is executed to perform the closure and that use case will display the perform the closure and that use case is executed to perform the closure and that use case will display the success or failure notification. The administrator is able to enter another user ID and repeat the process. The use case terminates when the administrator selects the Back or Exit button.

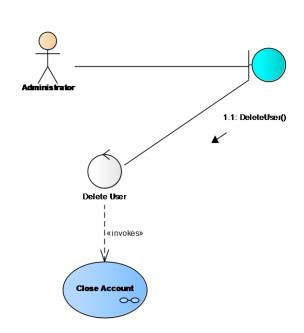
If the user ID doesn't match any existing account, an error message is displayed and the administrator is prompted to re-enter it.

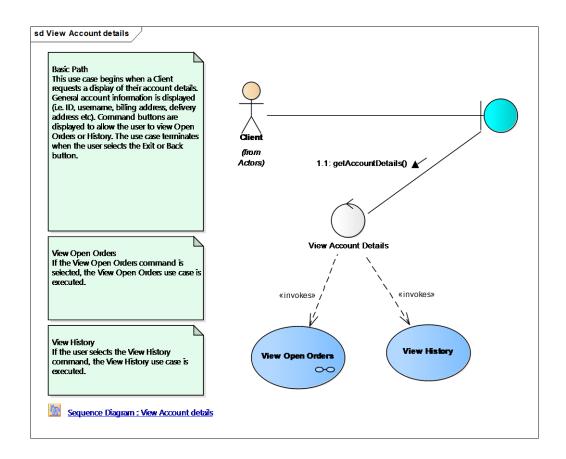
Bad password
If the administrator enters an incorrect password, an error message is displayed and the administrator is allowed a maximum of two more attempts before the use case terminates.

No confirm

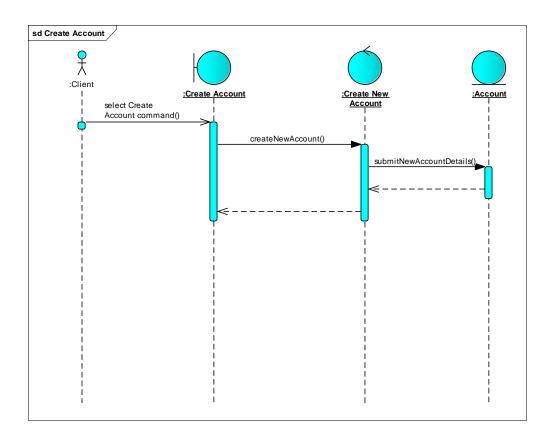
If the administrator answers No to the Are You Sure request, it is assumed that the wrong user ID was entered so the user ID is cleared and the administrator is permitted to try again.

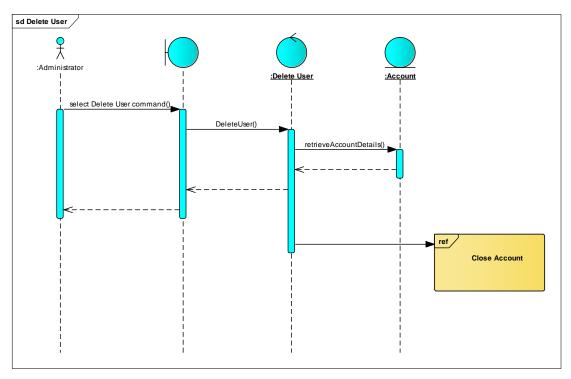
Sequence Diagram : Delete User

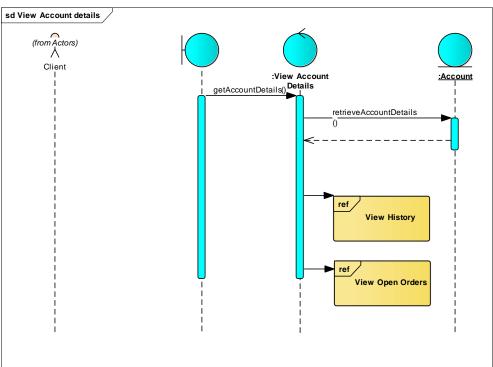




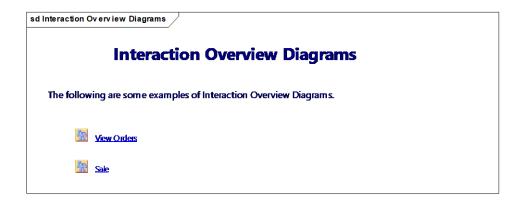
Sequence Diagrams

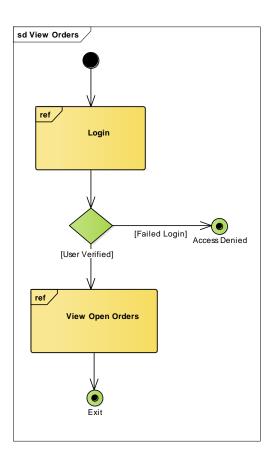


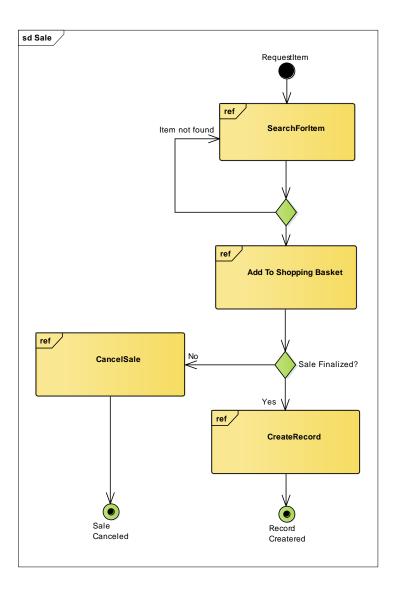




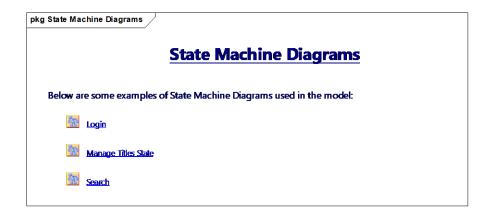
Interaction Overview Diagrams

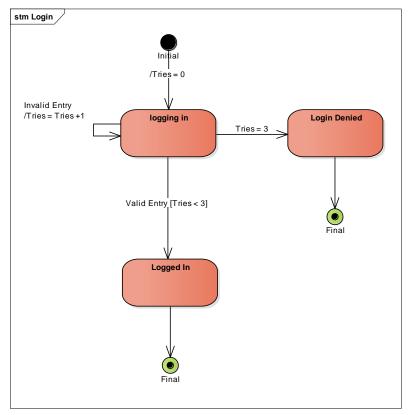


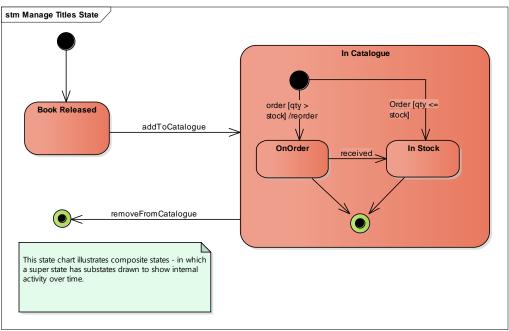


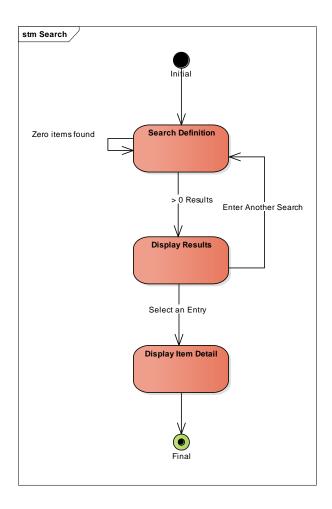


State Machine Diagrams



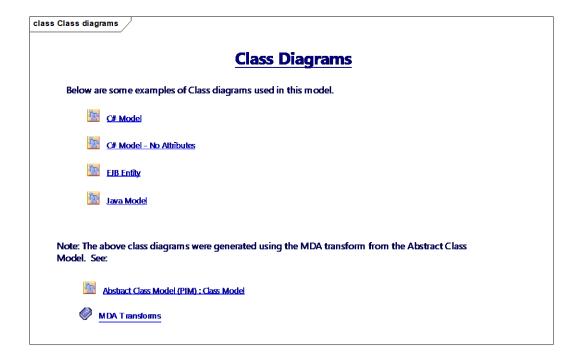


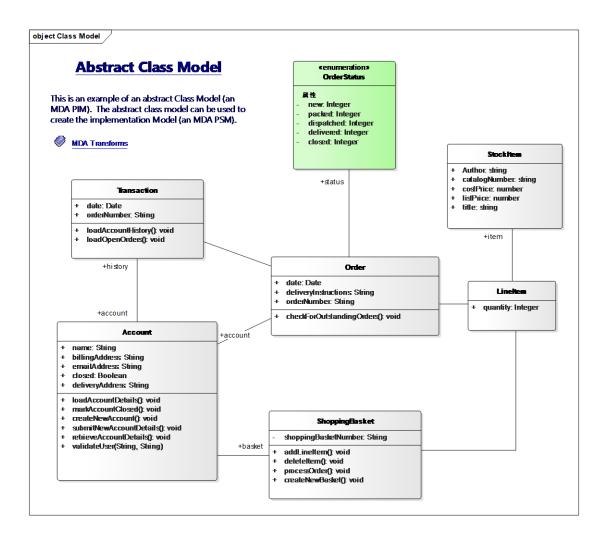


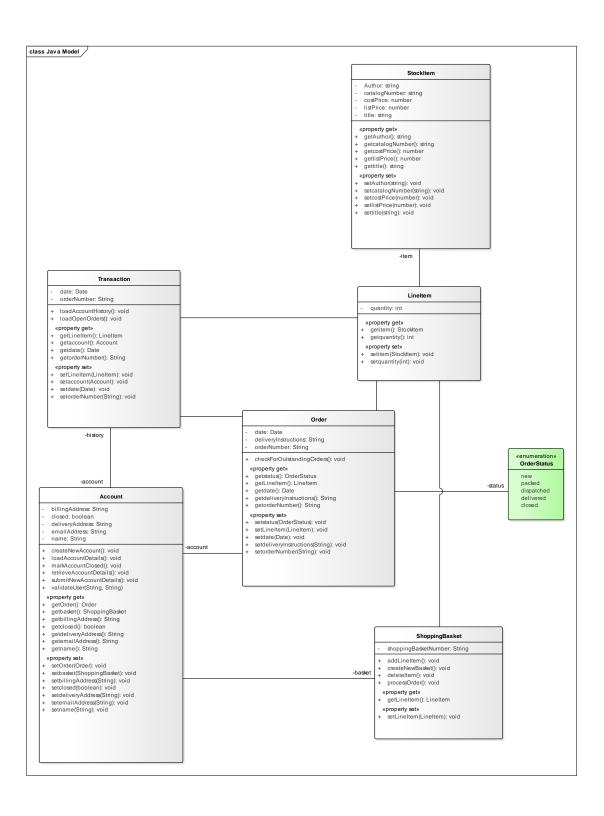


Structural Diagrams

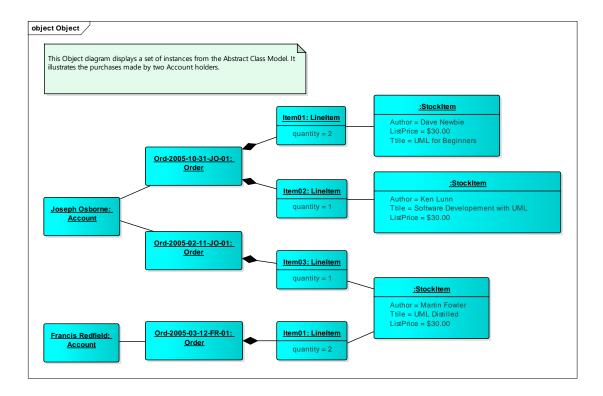
Class Diagrams



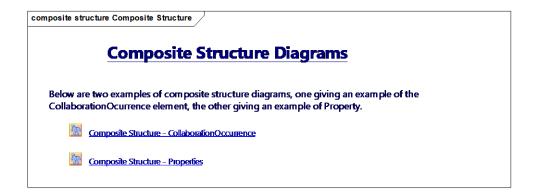


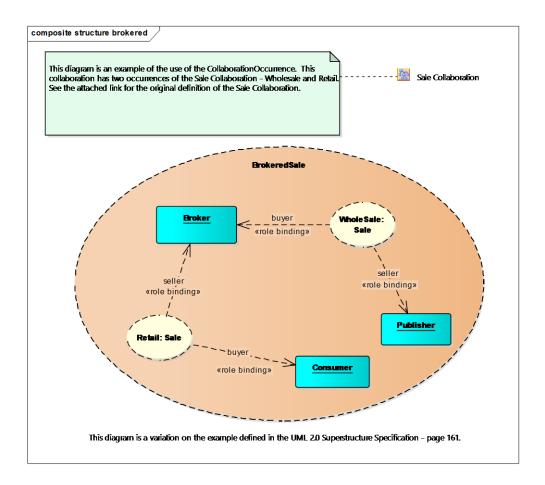


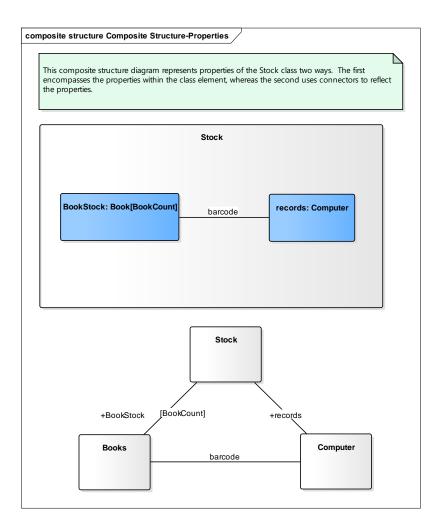
Object Diagram



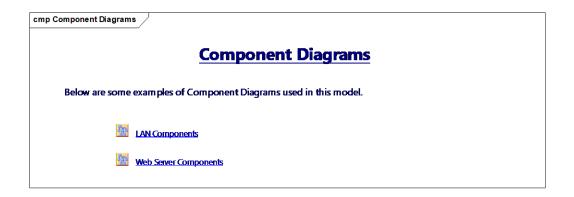
Composite Structure Diagram

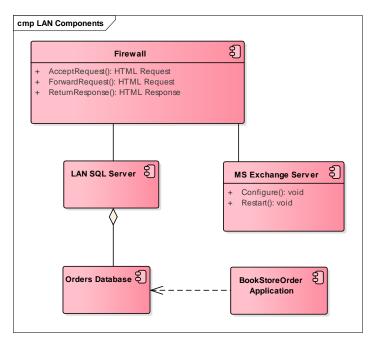


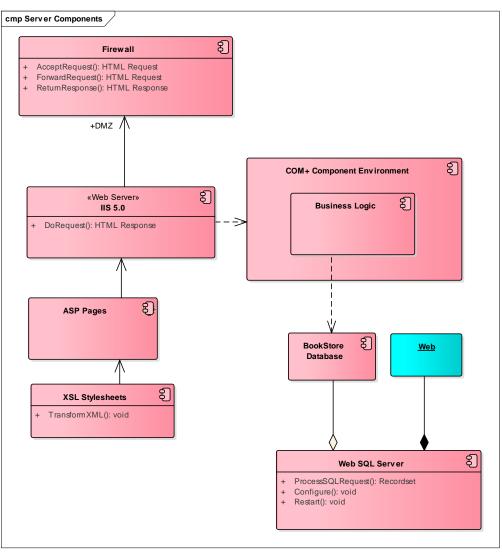




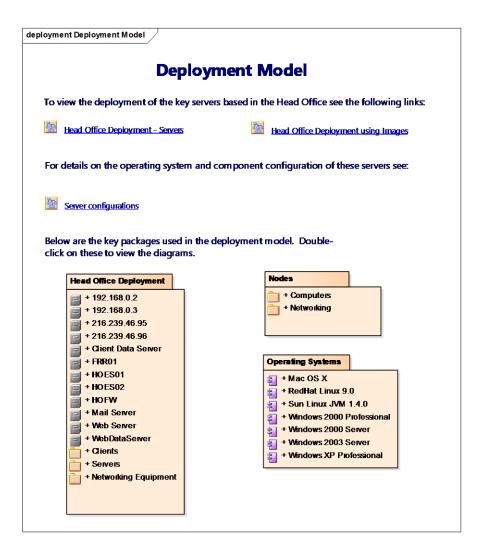
Component Diagrams

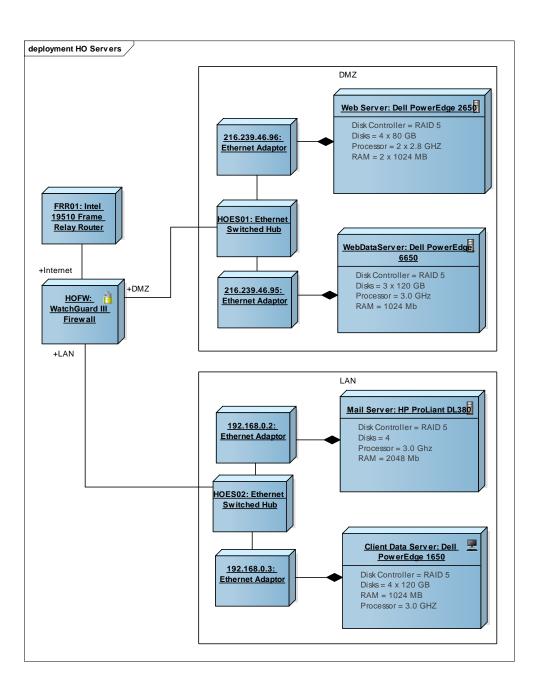


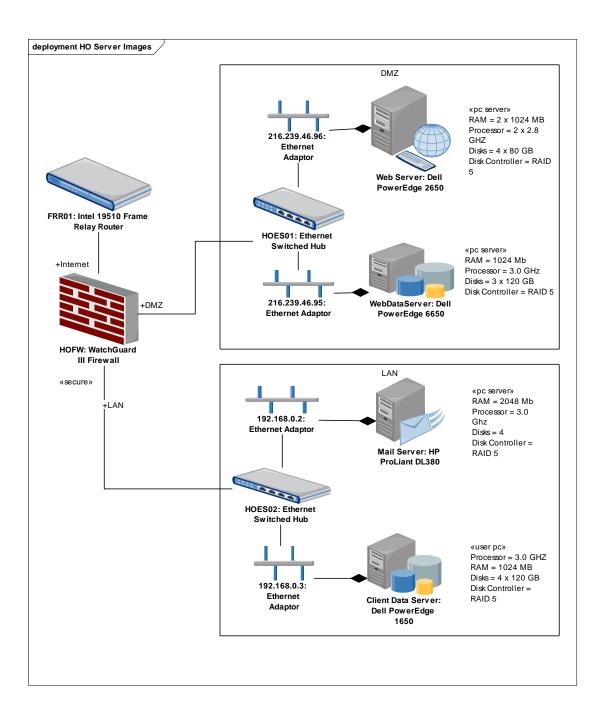


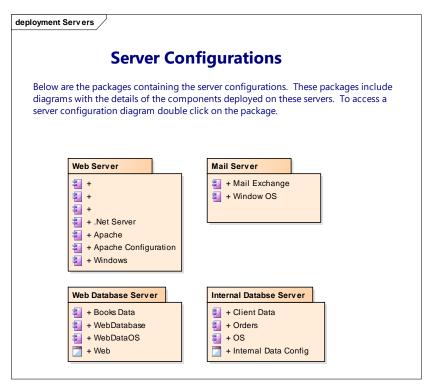


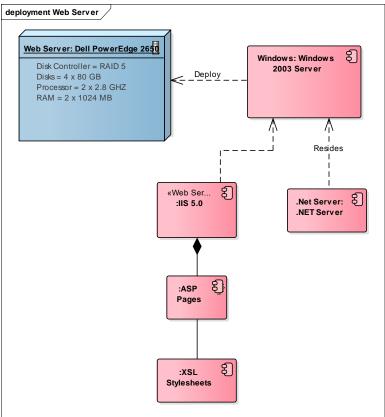
Deployment Model

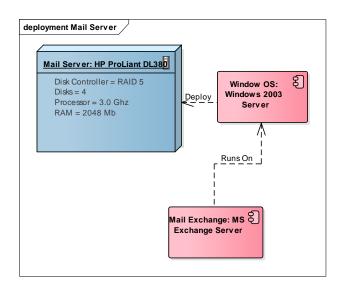


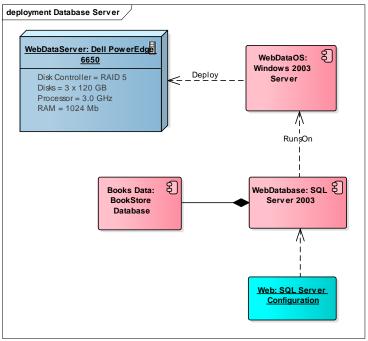


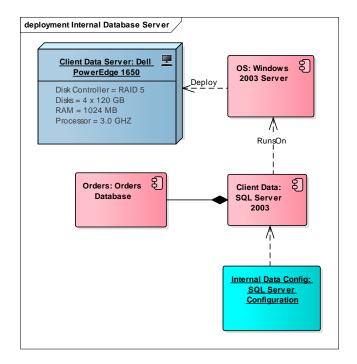






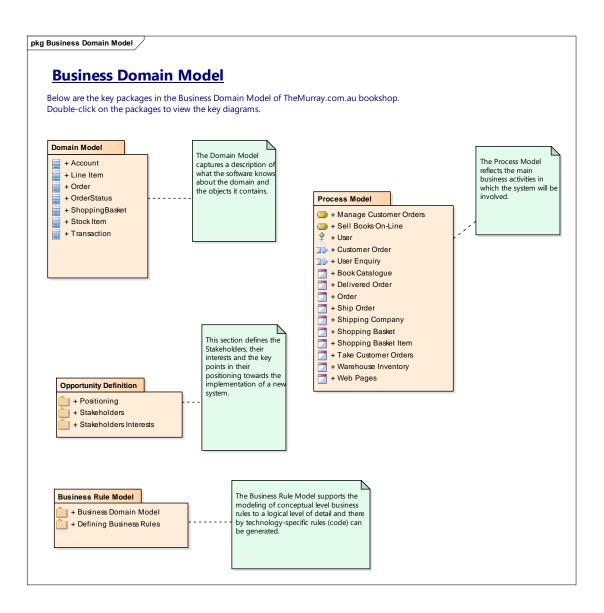


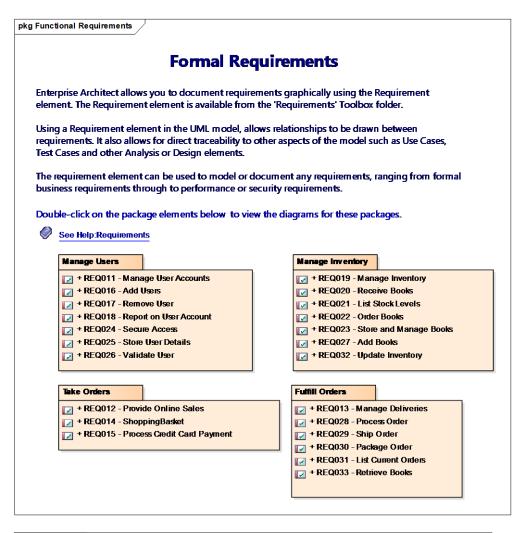


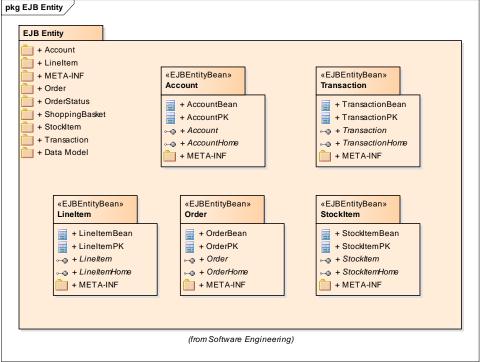


Package Diagram

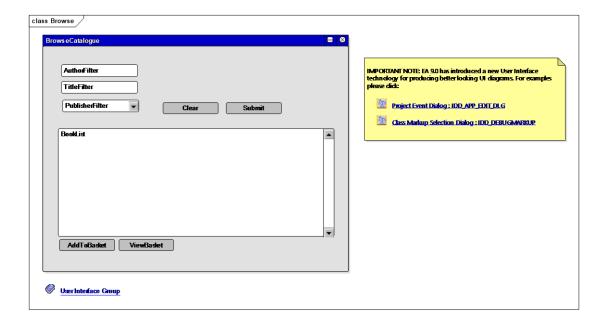








UI



Database Engineering

Data Modeling

