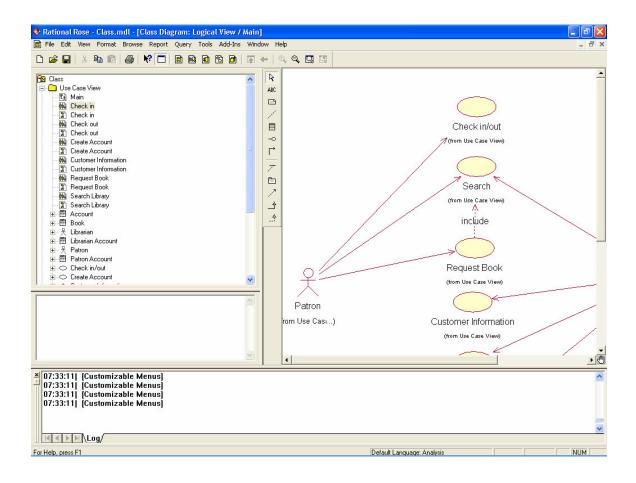
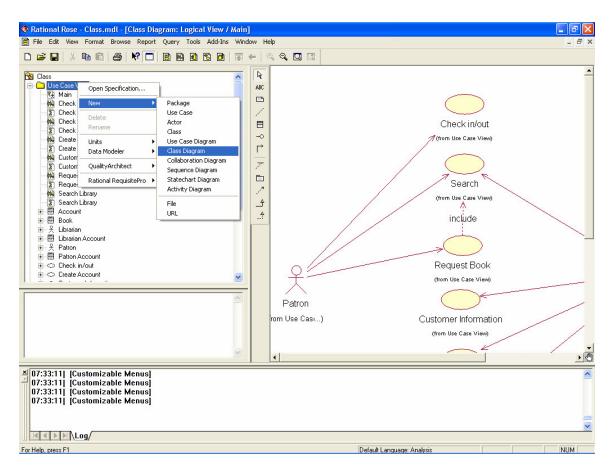
Class Diagram User Guide

1 Create a Class Diagram

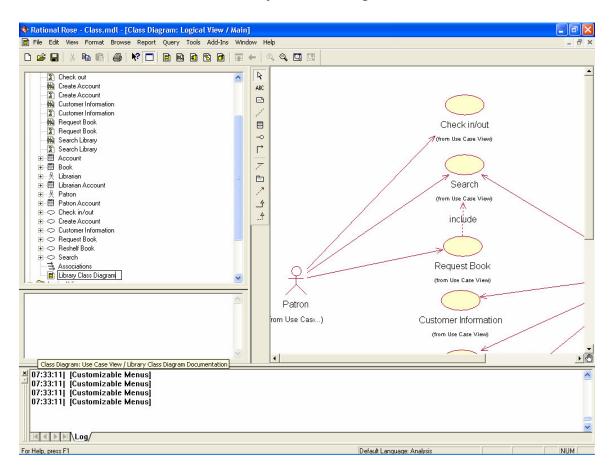
1.1 After Opening the Rational Rose Suite open the file that contains all of your previous work. It should contain Use Case Diagram, Sequential Sequence Diagrams and Collaboration Diagrams.



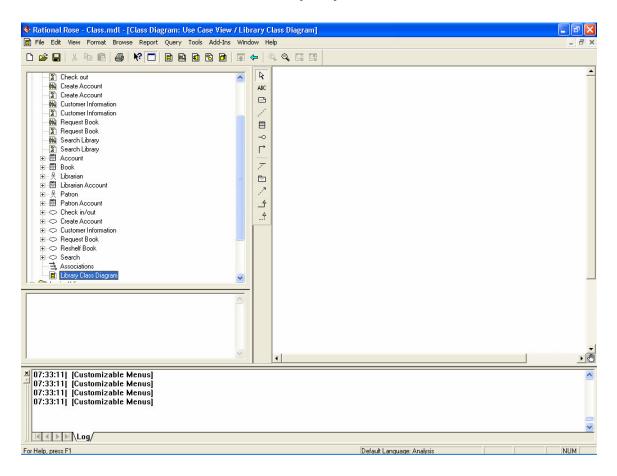
1.2 To create a new Class Diagram right click on the Use Case View in the left tree menu > New > Class Diagram.



1.3 Name the new file "Library Class Diagram."



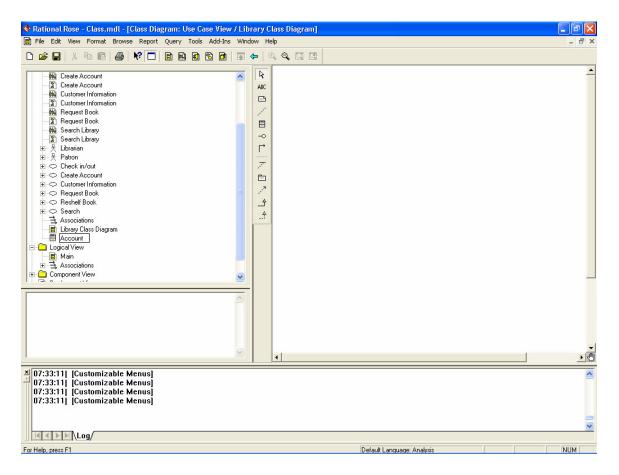
1.4 Double click Create Account you just created.



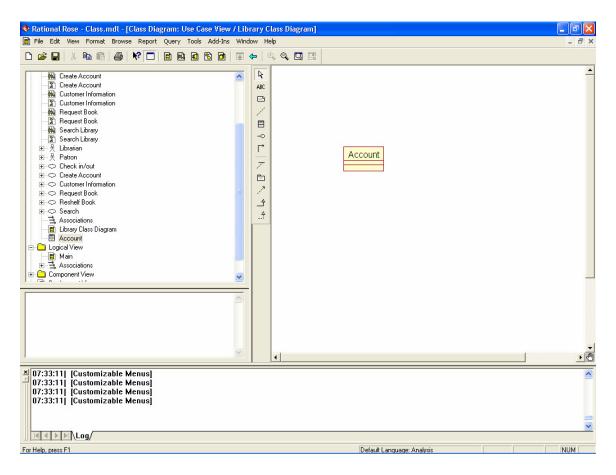
1.5 On the left tree menu right click the Use Case View > New > Class.

2	gram: Use Case View / Library Class Diagram]	- 7 ×
File Edit View Format Browse Report	Query Tools Add-Ins Window Help	_ & ×
🗅 🚅 🖬 🕺 🖻 🛍 🎒 😽 🗖	E Nu El 15 DI 🗊 🖛 🔍 🔍 🛄 💷	
Class Image: Second S	Package Use Case Actor Class Use Case Diagram Class Diagram Collaboration Diagram Sequence Diagram Sequence Diagram Statechart Diagram Activity Diagram File URL	<u>`</u>
1		
O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] Vitable Menus]		a •
For Help, press F1	Default Language: Analysis	NUM
FOLHOIP, press FT	Derauk Landuage, Analysis	MOM

1.6 Name the new Class "Account."



1.7 Select the Account Class and drag it onto the right window.



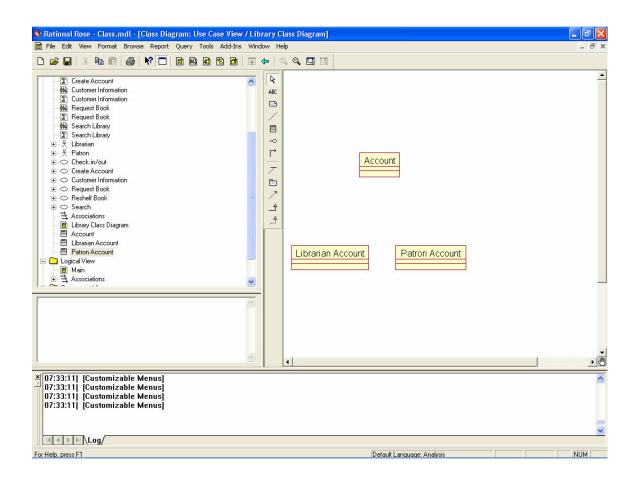
1.8 On the left tree menu right click the Use Case View > New > Class. Name the new Class "Librarian Account." Select the Librarian Account Class and drag it onto the right window.

🛠 Rational Rose - Class.mdl - [Class Diagram: Use Case View / Lib		
File Edit View Format Browse Report Query Tools Add-Ins Wind	low Help	_ @ ×
D 🚅 🖬 🕺 🛍 💼 🎒 🕺 🗖 🖪 🛍 🗃 🔂 🗃 🗊	🖕 🔍 🔍 🛄 🛄	
Customer Information Request Book Request Book Search Library Search Library Search Library Check in/out Check in/out Customer Information Create Account Customer Information Request Book Search Associations Librarian Account Logical View Main Main Main Main Main	Rec B ~ Account T Account Librarian Account	
	x [<u> </u>
O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus]		
For Help, press F1	Default Language: Analysis	NUM

1.9 On the left tree menu right click the Use Case View > New > Class. Name the new Class "Patron Account." Select the Patron Account Class and drag it onto the right window.

🗞 Rational Rose - Class.mdl - [Class Diagram: Use Case View / Library Class Diagram]	. 🗗 🗙
📄 File Edit View Format Browse Report Query Tools Add-Ins Window Help	- 8 ×
D 📽 🖬 🖄 📾 💼 🞒 🛠 🗖 🖻 🛍 🗃 🕲 🗃 🐢 🔍 🔍 💷 💷	
	*
	• 🖲
Image: State Stat	
For Help, press F1 Default Language: Analysis	NUM

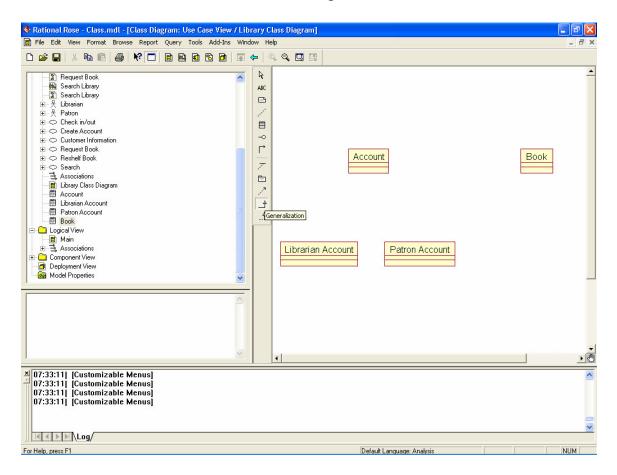
1.10 On the left tree menu right click the Use Case View > New > Class. Name the new Class "Patron Account." Select the Patron Account Class and drag it onto the right window.



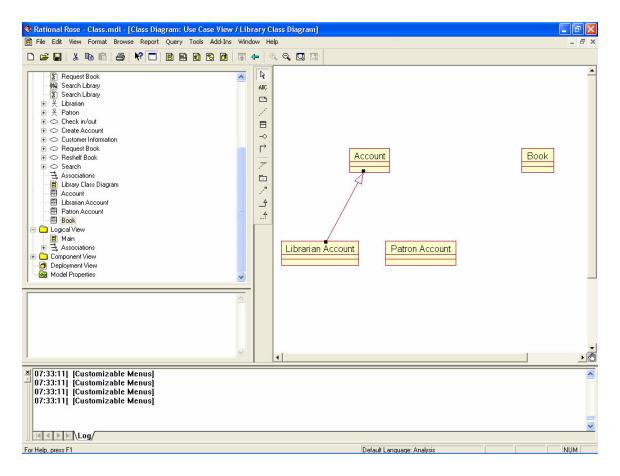
1.11 On the left tree menu right click the Use Case View > New > Class. Name the new Class "Book." Select the Book Class and drag it onto the right window.

🛠 Rational Rose - Class.mdl - [Class Diagram: Use Case View / Lib		
File Edit View Format Browse Report Query Tools Add-Ins Wind	dow Help	_ 8 ×
D 🚅 🖬 🕺 🛍 🗂 🎒 🕅 🖬 📾 🖬 🐼 🗊 🗊		
Request Book Search Library Search Library Search Library Resel Account Check in/out Create Account Create Account Customer Information Reshell Book Search Associations Librarian Account Deployment View Model Properties	R Account Patron Account	Book
	▲	
O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus] O7:33:11 [Customizable Menus]		
For Help, press F1	Default Language: Analysis	NUM

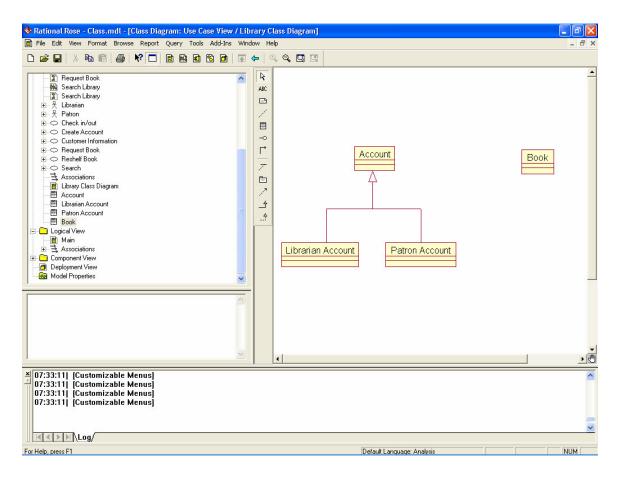
1.12 On the middle toolbar click the generalization button.



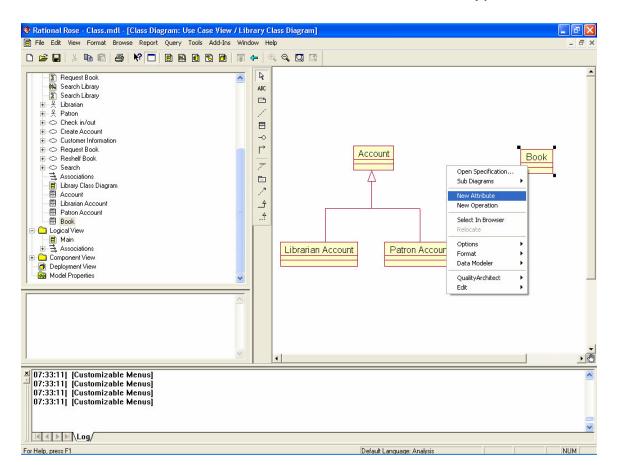
1.13 Click on the Librarian Account Class and then click the Account Class.



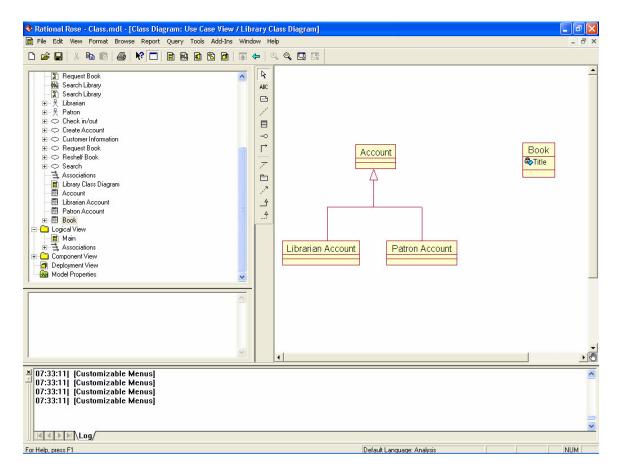
1.14 On the middle toolbar click the generalization button. Click on the Patron Account Class and then click the line that goes from Librarian Account to Account.



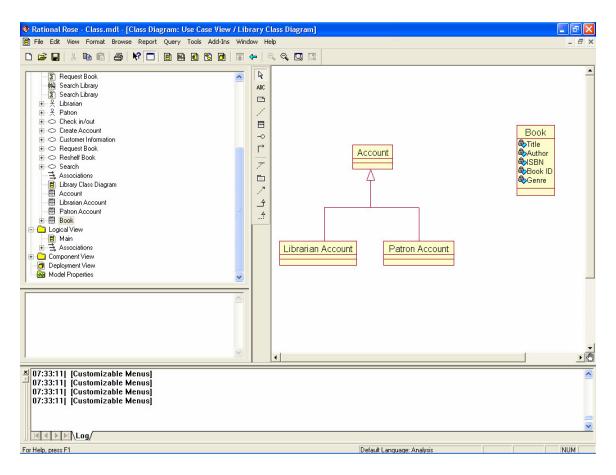
1.15 Now the Attributes for the Book class will be created. Right click on the Book Class and click New Attribute. Type "Title."



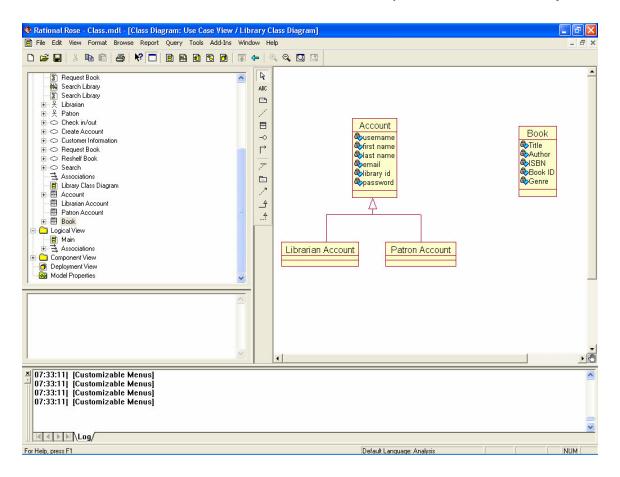
1.16 Type "Title."



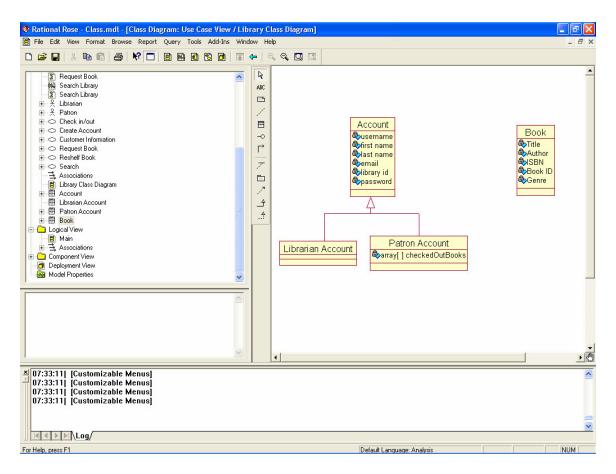
1.17 Repeat steps 1.15 and 1.16 and create the following attributes for the Book Class: Author, ISBN, Book ID and Genre.



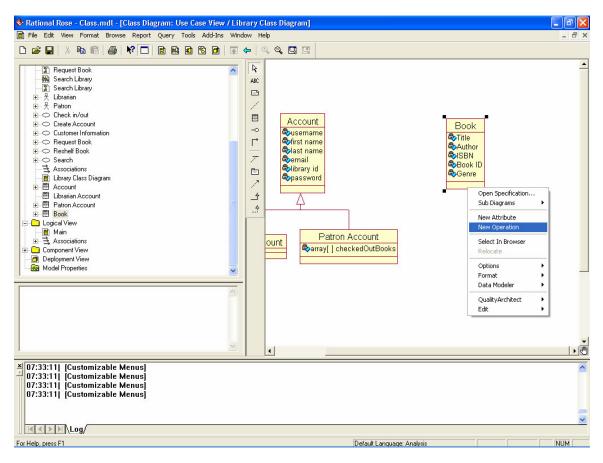
1.18 Create the following attributes for the Account Class: username, first name, last name, email, password and library ID.



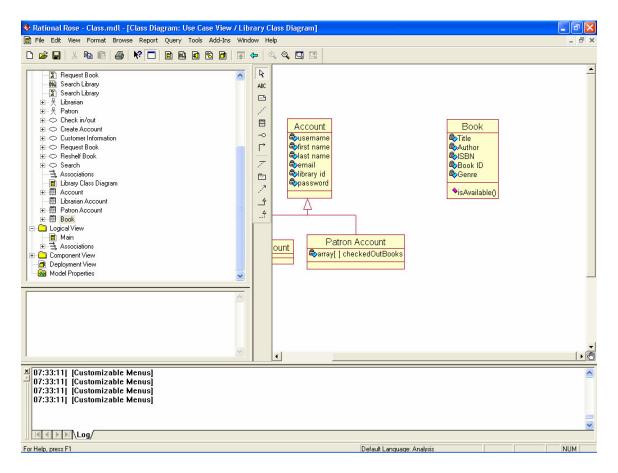
1.19 Create the array[] checkedOutBooks attribute for the Patron Account Class.



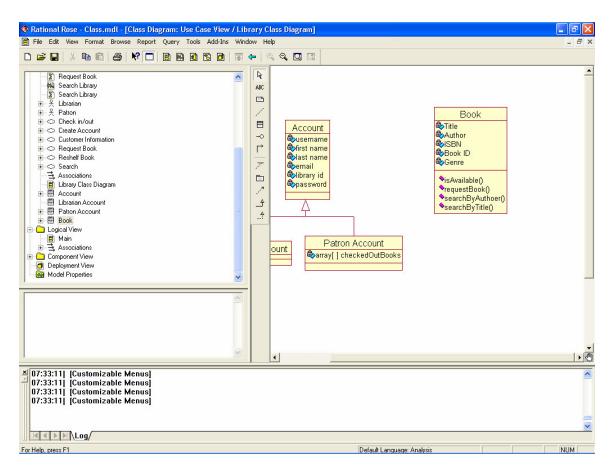
1.20 Now the Operation for the Book class will be created. Right click on the Book Class and click New Operation.



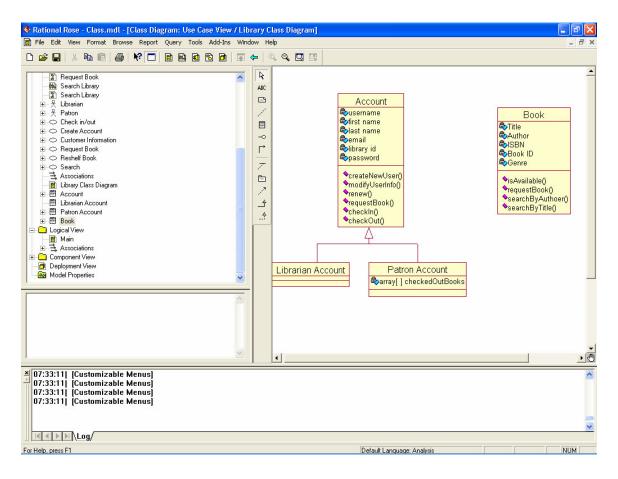
1.21 Type "isAvailable()."



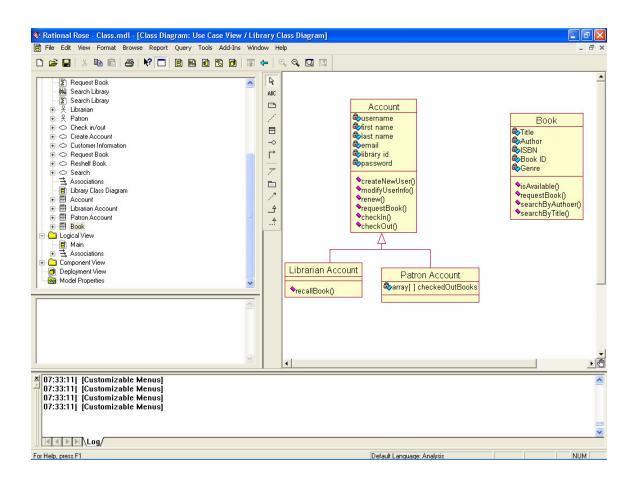
1.22 Create the following attributes for the Book Class: requestBook(), searchByAuthor() and searchByTitle().



1.23 Create the following attributes for the Account Class: createNewUser(), modifyUserInfo(), renew(), requestBook(), checkIn() and checkOut().



1.24 Create the recallBook() operation for the Librarian Account Class.



1.25 The diagram is now finished. Click File > Save and then File > Exit to close the program. Here is the finished diagram.

