How to construct a Class diagram in Rational Rose SE

As with the use case diagram, for simple systems you can use the 'Main' diagram. In more complex systems you may have to create more than one diagram. To to create a new class diagram use the same procedure described in the 'Creating a Use Case Diagram' tutorial. Select 'Browse', select 'class diagram' and <new>. Once in the class diagram you should see a tool palette like this.

We will illustrate the construction of figure 2.2 from the textbook. First Click on the class icon from the tool palette and then click within your diagram. You should see a box with three compartments. The top compartment contains the class name, the next compartment will contain the class attributes and the final compartment will contain the class operations.

Use Case View
  SimpleWatch
  comlexwatch
  simplewatch
  WatchUser
  WatchRepairPerson
  student
  DistanceStudent
  CampusStudent
  Realtime
  SetTime
  ChangeBattery
Logical View
  Main
  SimpleWatch
Component View
Deployment View

Specification...
Edit Compartment
✓ Automatic Resize

✓ Show Visibility
  Show Stereotype
  Show Operation Signature
✓ Show All Attributes
✓ Show all Operations

Suppress Attributes
Suppress Operations

Insert New Attribute
Insert New Operation

In the initial stages of analysis we are not interested in the details of a class, we will often add and remove classes as we develop our understanding of the application domain. It is only at a later stages when the class structure stabilizes, that we begin to include attributes and operations. After this we will also begin to add more details, e.g. the type of an attribute, whether an attribute is private or public.
At this stage you should right click suppress the attribute and operation information. After doing this click on specification, then add the class name and any documentation you think appropriate.

SimpleWatch

PushButton   Display   Battery   Time

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No selection

For Help, press F1

Repeat the procedure just described to add the other classes. Once you have done this select the association icon and add the associations between the classes.

Right clicking at each end of the association will bring up a menu in which you can enter the multiplicity of the association. Enter 1, or 'one or more' (as in the case of the buttons and batteries). You have now completed the diagram.