Requirements Engineering: Writing System Requirements

Use Case diagrams should show any/all re-usable code.

An activity diagram should be included for the main transaction (as a minimum).

When writing **Use Case Narratives,** use the following check-list to determine if an adequate level of detail has been achieved:

1. Each step in the use case narrative should describe a *single* task.

2. Does any processing need to be done before the user interface (UI) is displayed?
   If yes, this processing must be specified.
   For example:
   - Assigning a key value (e.g. Cust_Id, Stock_No, Reservation_No)
   - Filling form controls such as drop-down lists, grid controls, etc.
   - Setting the date to be displayed on the UI

3. Is there any data to be entered by the user?
   If yes, list the data items to be entered by the user

4. If data has been entered, has the required validation been specified?
   List each validation step that needs to be performed

5. Have any business rules been specified for the requirement?
   If yes, has the verification/validation of these rules been specified?

6. Are there any default values to be assigned?
   If yes, these must be specified.
   For example:
   - Sale_Date = System date
   - OpeningBalance = 0
   - Status = 'available'

7. If data is to be retrieved from or written to a data store (file, table), state the data store name(s).
   For example:

   *"County codes are retrieved from the **Counties File** and….."*
   *"Member details are saved in the **Members File**"*

8. Ensure any/all alternate scenarios are specified.
   For example:
   - Invalid data entered
   - Print option selected

9. If the requirement being specified generates a report or listing, include a sample as an appendix