Examples for the design–based reading scenario

Design–based Reading

Generate a design of the system from which the system can be implemented. Use your standard design approach and technique, and incorporate all necessary data objects, data structures and functions. In doing so, ask yourself the following questions throughout the design:
Some examples of defects from the video system specifications that would be uncovered by the questions are written in italics.

1. Are all the necessary objects (data, data structures, and functions) defined?
   Page 10: Functional requirement 10: What it means to 'update' the different files is never specified.

2. Are all the interfaces specified and consistent?
   Page 9: Functional requirement 6: It is not specified that the account number must be entered before the number of a tape can be entered.

3. Can all data types be defined (e.g., are the required precision and units specified)?
   Page 8: Functional requirement 3: What is a "transaction record"?

4. Is all the necessary information available to do the design? Are all the conditions involving all objects specified (e.g., are any requirements/functional specifications missing)?
   Page 12/13: Functional requirements 18/19: How are these operations restricted to managers only?

5. Are there any points in which you are not clear about what you should do because the requirement/functional specification is not clear or not consistent?
   Page 8: Functional Requirement 2: There are several potential ways to interpret 'current status' to classify tapes: in store/rented, damaged/good condition, on sale/full price, ...

6. Does the requirement/functional specification make sense from what you know about the application or from what is specified in the general description/introduction?
   Page 13: Other Requirement: This requirement doesn't make any sense because the system should run only on PCs.