General Description of the ABC Video System

Customers select at least one video for rental. The maximal number of tapes that a customer can have outstanding on rental is 20. The customer's account number is entered to retrieve customer data and create an order. Each customer gets an ID card from ABC for identification purposes. This ID card has a bar code that can be read with the bar code reader. Bar code IDs for each tape are entered and video information from inventory is displayed. The video inventory file is updated. When all tape IDs are entered, the system computes the total bill. Money is collected and the amount is entered into the system. Change is computed and displayed. The rental transaction is created, printed and stored. The customer signs the rental form, takes the tape(s) and leaves.

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User Characteristics

The system will be used by ABC Video management, clerks, and indirectly by customers. From the point of view of the system, clerks and managers are identical. Some system operations are only accessible to managers (such as printing daily reports) and are protected by password.

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Functional Requirement 7

- *Description*
  The maximum number of tapes that can be rented at one transaction is 20.
- *Input*
  Bar code ID of tape is entered with the bar code reader
- *Processing*
  If this tape is the 21st taken, rental is rejected
- *Output*
  Error message is displayed

This contradicts the statement in the General Description.
Incorrect Fact

Functional Requirement 18

- *Description*
  Only managers can delete customers or video.
- *Input*
  Manager enters account number of video or customer
- *Processing*
  Deleting video or customer
- *Output*
  Display if the data was deleted

The functionality to enforce this has been omitted from the requirements.
Omission

Functional Requirement 14

- *Description*
  If past-due amounts are owed, they can be paid at this time, or the clerk can select the "order-complete" key which updates the rental with the return date and calculates past-due fees.
- *Input*
  Payment or calculation of past-due fees.
- *Processing*
  Updating rental transaction record. Go to initial state.
- *Output*
  Update rental transaction file.

What it means to "update a rental transaction" is not fully specified.
Ambiguous

Functional Requirement 11

- *Description*
  After the rental is closed the transaction is stored and printed
- *Input*
  Close the current rental
- *Processing*
  Store rental and print form that the customer has to sign. Return to initial state. <u>Forms will be kept on file in the store for one month after the tapes are returned.</u>
- *Output*
  Printed form. Initial menu is displayed.

This is a policy outside the system being described, not part of a functional requirement. ***Extraneous***

3.4 Other Requirements

Requirement 1

The system should run on all common computer systems.

Unachievable requirement!
Miscellaneous