### Exercise – Root causes

pencilRewrite these “requirements” to eliminate the solution so that it focuses on the root cause of the need. Typically, there are one or two functional and many non-functional requirements. Sometimes there may be no functional requirement. Also identify the system.

**The car shall have power windows.**System: car

###### Functional

* the system must circulate air inside car from outside

###### Non-functional

* accessibility to outside
* visibility to outside for driver to all sides
* convenience
* ease of use
* safety of driver (attention)
* emergency use
* interaction with outside
* visually appealing

**The user will press the submit button when finished with the customer data entry.**System: customer data entry

###### Functional

* the system will listen for data entry completion
* the system will capture data as it is entered
* the system will validate data as it is entered (rules….)

###### Non-functional

* quickly
* user-friendly (bad)

**The food for the meal will consist of four courses.**System: the meal

###### Functional

* emits aroma

###### Non-functional

* expensive ambience / fancy
* variety
* having a pleasurable time during eating
* digest
* serving temperature optimized
* appetizing
* sweetness

**The system will illuminate the screen at night.**System: ATM system

###### Functional

* illuminate the screen

###### Non-functional

* when, how, where, who, how much

**The database will store customer transactions.**System: customer transaction system

###### Functional

* search historical transactions
* generate transaction reports

###### Non-functional