Case Study 2

Step 3 – Plan the solution

Decision logic w/ error detection:

* Start system
* Check temperature
  + Is temp outside of the defined range (<16, >28)?
    - If yes, deny access, send alert, display warning
    - If no, allow access, display temp
* Is there any faulty equipment?
  + If yes
    - Send alert to IT
    - Display warning
  + If no
    - Loop to check
* Card access – Assume card swiped for all instances
  + Is the room currently at capacity?
    - If yes, deny additional access
    - Display warning
    - If no, proceed
  + Is access valid?
    - If yes, unlock door, capacity count +1
    - If no, deny access, display warning

Possible exemptions and ideas:

* Administrator access
  + Allow anyone with the admin tag entry in all scenarios
  + Allow anyone with the maintenance tag entry
  + Allow teachers access when the room is full
* If the door doesn’t close and latch properly
  + Sound a consistent alarm until rectified

