PME 2. assignment – System test documentation 22.03.2022/pov.

2. Assignment deadline is the 14. April 2022

Make use of your first PME assignment Requirements (function/non function) and put those into IEEE829 contents.

Have main focus on the IEEE829 Annex B (Integrity level scheme) and Annex C (Testing tasks)

For all the requirements in your first PME assignment based on IEEE 830 SRS template you must take the requirements one-by-one and put those into Annex C test tables. Describe how to perform the test and write what are the expected test results. Each test case boundary must be explored e.g. Req "+" you need to: 2+2 = 4, -2+2=0, 1234567890 + 1234567890 = 2.469.135.780 etc.

Hints for the PME 2. assignment:

The 2. PME assignment is closely related to you work in the 1. PME assignment.

The challenge is to take all the requirement from 1. Assignment and make Annex B

severity check plus make Annex C test input/output tests.

Table B.1–Description of integrity levels in relation to Rema 1000 case

Table B.2–Definitions of consequences of failures an relation to Rema 1000 case

Table B.3–Risk assessment scheme in relation to Rema 1000 case

Priority the order the errors should be fixed. Is there some errors with low priority?

who have to be fixed right away even if it have low severity? (low of battery power

causing almost invisible display view) ….

Table C.1–Testing tasks, inputs, and outputs

For all the requirements in your 1. Assignment make test cases containing:

1) Test requirement
2) Test Input: Describe how to perform the test with 2 values in range and 2 values out of range
   E.g.Test addition "+" (8 * 7 segment Test input: 2+2 Test output 4

   Test input: 2+(-2) Test output 0

   Test input: 999999999+1 Test output (To many digits)

   Test input: (-999999999)+2) Test output (To may digits)

Keep it simple but make 4 test cases for each requirement. For the division test case it's important to test div by 0. You can also try this test case on your PC's calculator and see what happens.