



Exercise 1

– Requirements Specification



Problem Statement

- Produce a mobile phone that is capable of communicating using either voice or text.
- Needs Analysis
 - A junior engineer asked the customer a series of questions in regard to dimensions, weight, standby time etc before producing the following requirements
 - Use the validation criteria to assess these requirements (matrix on large sheet of paper)
 - If a requirement does not satisfy the properties, restate it so that it does.



Criteria

Is each requirement **abstract**?

Is each requirement **unambiguous**?

Is each requirement **verifiable**?

Is each requirement **traceable** to a user need?

Is each requirement **realistic** and **technically feasible**?

Collective properties

Are all the end-user needs addressed in the Requirements Specification?

There should be no overlap or redundancy between requirements.

The Requirements Specification should not be self-contradictory.



Individual Task:

Please use the criteria in the previous slide, to check the following requirement statement, identify what are the issue(s) or problem(s) for each of the statement below:

Abstract?
unambiguous?
verifiable?
traceable?
realistic?

1. The phone should be easy-to-use.
2. The phone should have a maximum weight of 150 g.
3. The phone should have a talk time of 1000 hours.
4. The phone should have a stand-by time of 500 hours.
5. The phone should use a nickel cadmium battery.
6. The maximum dimensions of the phone including the battery should be 100mm x 50mm x 20mm.
7. The phone should operate at any geographic location within the Australia mainland.
8. The phone should be no more than 20 mm deep.
9. The phone's camera must be at least 1.2 megapixels.

You can
measure each
criteria in a
scale of 1 to 10