HRV Project Rubric, Demo and Deliverable Check List

Do I have a Readme?

Tot: 100 marks (deliverable 75 marks and individual demo 25 marks)

A. Use case model (10 marks)

1- Quantity of use cases: did the provided use cases cover all the required features in the specification?

2- Quality of UC descriptions: Did you thoroughly describe each of the use cases

2a) Did you follow the prescribed UC format? (actor, precondition, etc.)

2b) Did you describe the UCs in an easy to understand and clear manner?

3. Use case diagram

3a) Did you follow the UC diagram syntax?

3b) Did you capture all the textual UCs in the diagram?

B. OO Design model (20 marks)

1. **Demo:** can you explain the design well or not?

1a) Can you explain how the basic use case is realized by the design?

1b) Can you explain the design and patterns, if any, used in it (including those from Qt)?

2. UML class diagrams.

3. UML sequence, and, optionally, state or activity diagrams.

4. Have you followed the syntax of the required diagrams?

5. Have you related the above diagrams to UCs?

C. Implementation (40 marks)

1. **Demo:** explain flow of control for the basic use (successful treatment) and exceptions (loss of connection during treatment and battery critically low)

2. **Demo:** explain design as it is realized in the implementation

2a. If using observer from Qt how is it used?

2b. Are you using any other patterns? (e.g. mediator, strategy, or any other ones)

3. Acceptable UI. It need not be the same as the one from the specification, “Figure 1: Example User Interface”, but it should provide equivalent functionality.

3a. Shows all the required buttons (power on/off, start/stop session, etc.)

3b. UI shows battery level going down during treatment

3c. UI displays the breath pacer

3d. UI shows HR contact

4. History of sessions is implemented.

D. Tests and traceability matrix (30 marks)

1. **Demo:** what and how you've tested

2. Do you have a video that shows your tests?

3. Do you have a traceability matrix that relates use cases to tests, design and implementation.