Assignment 2

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Developer (Tian Lian)

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| Scenario Refinement for Scenario N | | |
| Scenario(s): | | Project manager ask developer to add a new feature that patients can transfer data of pacemaker to the server to store via WIFI. |
| Business Goals: | | feature-rich product |
| Relevant Quality Attributes: | | Modifiability |
| Scenario Components | Stimulus: | Project manager ask developer to add a new feature. |
| Stimulus Source: | A required new feature, such as transferring data via WIFI. |
| Environment: | When it is designed to add the new feature. |
| Artifact (If Known): |  |
| Response: | Add the new feature components into the system then test it and deploy it. |
| Response Measure: | Measure the influence on other components and the cost it will take. |
| Questions: | | How much the new feature will cost? |
| Issues: | | May need to train installers to prevent malfunctions and avoid potential legal issues. |

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| Scenario Refinement for Scenario N | | |
| Scenario(s): | | When patient’s heart rate changes suddenly, developer has to make sure that the pacemaker will change the pulse rate relatively in less than one millisecond. |
| Business Goals: | | safest system; feature-rich product |
| Relevant Quality Attributes: | | safety, performance |
| Scenario Components | Stimulus: | patient’s heart rate changes suddenly |
| Stimulus Source: | heart rate |
| Environment: | Pacemaker in patient’s heart, and heart rate changes. |
| Artifact (If Known): | Monitor-controller, software components |
| Response: | pacemaker changes the pulse rate |
| Response Measure: | one millisecond |
| Questions: | | What is the range of changes of heart rate |
| Issues: | | May change the hardware components. |