

Sapien 190 - Scrum – Meeting Minutes

Scrum Status 2. June:

Peter:

Done:

- Preface and Introduction 1, 2
- Design describe Logical View - continuous package 3.4.3
 - Solution in context, Why, implication, alternatives
- Merge architecture document

Problems:

-

Next:

- Review

Anders:

Done:

- Design describe Logical View - discrete package 3.4.2 - UK
- Design describe Logical View - communication package 3.4.4 - UK
 - Solution in context, Why, implications, alternatives
- Development tools 3.6 - UK
- Suggestion to improvements 3.11 - UK
- Inputs to conclusion

Problems:

-

Next:

- Review

Kim:

Done:

- Meeting minutes
- New class diagram with packages to describe overview (Tirsdag)
 - Insert in report
- Chapters 3.7 - 3.10 - UK version based on inputs from Anders
- Design describe, Logical View - process view 3.4. - UK
- Architecture document chapter 3.5 describe signal, slots and emit in Qt
- Conclusion

Problems:

-

Next:

- Finish conclusion and review

Next scrum meeting 3. June Thursday at 9:00:

- Finalize Requirement Specification
- Finalize Product Architecture Document
- Finalize Project Report
- Finalize, printing, CD
- Continue to finished

Action list (Backlog) to final delivery 04. June:

Open and not completed in project:

- Implement ECG to EDR filter
- Implement Serial Port Interface
- Implement Infusion Pump thread, mediator
- Bug fixing - memory leak kill -> start threads
- Complete Use Case #2 (Select and initiate Scenario)
- Use cases #4 (Monitor medicine) + #5 (Manage Scenarios)

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Scrum Status 31. May:

Peter:

Done:

- Finalize chapter 5
- Finalize chapter 11+12
- Merge architecture document
- Started on report chapters 1 and 2

Problems:

-

Next:

- Preface and Introduction 1, 2
- Design describe Logical View - continuous package 3.4.3
 - Solution in context, Why, implication, alternatives

Anders:

Done:

- Text in danish for inputs to report chapters 3.7 - 3.10

Problems:

-

Next:

- Design describe Logical View - discrete package 3.4.2 - UK
- Design describe Logical View - communication package 3.4.4 - UK
 - Solution in context, Why, implications, alternatives
- Development tools 3.6 - UK
- Suggestion to improvements 3.11 - DK

Kim:

Done:

- Meeting minutes
- Merge reports inputs from anders
- Produce test data
 - Test signal 0/1 to measure sample rate and jitter
 - Memory usages
 - Measurement of calculate times and update graph times
- Report chapters 3.1 - 3.5 - still missing parts for chapter 3.4
- Implement ECG to Pulse filter
- Implement set priority of tasks

Problems:

-

Next:

- Meeting minutes
- New class diagram with packages to describe overview (Tirsdag)
 - Insert in report
- Chapters 3.7 - 3.10 - UK version based on inputs from Anders
- Design describe, Logical View - process view 3.4. - UK

Next scrum meeting wednesday at 12:00:

- Changes committed before 10:00
- Scrum status
- Status on report writing
- Planned - Abstract + Conclusion
- Continue to 15:00

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Scrum Status 28. May:

Peter:

- Done:
 - Meeting minutes
- Problems:
 -
- Next:
 - Finalize chapter 5
 - Finalize chapter 11+12
 - Look at chapter 3.5 in the Report, Design Process
 - Merge architecture document
 - Responsible for report chapters 1, 2 and 3.6

Anders:

- Done:
 - Finalize chapter 10 in architecture document
 - Finalize Architecture document chapter 7. deployment + 8. implementation view
 - Finalize ch 5.3.2
 - Send document to PHM thursday afternoon.
 - Inputs to Report chapter 3.7-3.11
- Problems:
 -
- Next:
 - Architecture document chapter 3.5 describe signal, slots and emit in Qt
 - Responsible for report chapters 3.7 - 3.10

Kim:

- Done:
 - Write on Report Section 3.2, Project Execution
 - Write on Report section 3.3, methods
 - Update UML diagrams arch ch 7+8
 - Updated sequence diagrams for ch 5 and added code snippets
- Problems:
 -
- Next:
 - Meeting minutes
 - Merge reports inputs from anders
 - Produce test data
 - Test signal 0/1 to measure sample rate and jitter
 - Memory usages
 - Measurement of calculate times and update graph times
 - Responsible for report chapters 3.1 - 3.5

Next scrum meeting monday at 13:00

- Scrum status
- Close Architecture document
- Status on report writing
- Discuss conclusion and assing of chapter
- Review of report chapters 3.11 and 4
- Continue to 15:30

Action list (Backlog) to final delivery 04. june:

Planned meettings to finialize:

- Tirsdag 1, Torsdag 3

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- Finalize Requirement Specification
- Finalize Product Architecture Document
- Finalize Project Report

- Implement ECG to EDR filter
- Implement ECG to Pulse filter
- Implement Serial Port Interface
- Optionally implement Use Case #2 (Select and initiate Scenario)
- Implement set priority of tasks

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Scrum Status 25. May:

Peter:

Done:

- Meeting minutes
- Added text to Chapter 5 + 11 + 12

Problems:

- What exactly to put into ch 11+12

Next:

- Finalize chapter 5
- Finalize chapter 11+12
- Look at chapter 3.5 in the Report, Design Process
- Merge architecture document

Anders:

Done:

- Complete discrete demonstrator
- Document discrete system in architecture document chapter 5.2.2
- Integrate Rhapsody model with GuI and FrameBuffer observer
- GUI design and change of views based on the discrete model

Problems:

- Content of ch 10

Next:

- Finalize chapter 10 in architecture document
- Finalize Architecture document chapter 7. deployment + 8. implementation view
- Finalize ch 5.3.2
- Send document to PHM thursday afternoon.
- Inputs to Report chapter 3.7-3.11

Kim:

Done:

- Format report
- Write on project execution section in the Report
- Appendix screen dumps of test
- Architecture document chapter 6. Process/task view
- RMA Analysis

Problems:

-

Next:

- Write on Report Section 3.2, Project Execution
- Write on Report section 3.3, methods
- Update UML diagrams arch ch 7+8

Next scrum meeting friday at 9:00

- Scrum status
- Close Architecture document
- Status on report writing and assignment of tasks
- discuss content of 3.7 - 3.11
- Continue to 16:00

Action list (Backlog) to final delivery 04. june:

Planned meetings to finalize:

- Fredag 28
- Mandag 31, Tirsdag 1, Torsdag 3

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- Finalize Requirement Specification
- Finalize Product Architecture Document
- Finalize Project Report
- Implement ECG to EDR filter
- Implement ECG to Pulse filter
- Implement Serial Port Interface
- Optionally implement Use Case #2 (Select and initiate Scenario)

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Scrum Status 19. May:

Peter:

Done:

- Meeting minutes
- Added text to Chapter 5

Problems:

-

Next:

- Merge Anders and Peter changes to architecture document
- Continue writing on chapter 5+6 in architecture document except for 5.2.2
- Architecture document chapter 11. and 12.

Anders:

Done:

- Continued with design and implementation of QT controller with command and state pattern

Problems:

-

Next:

- Complete discrete demonstrator
- Document discrete system in architecture document chapter 5.2.2
- Finalize chapter 10 in architecture document
- Architecture document chapter 7. deployment + 8. implementation view

Kim:

Done:

- Add mediator and singleton diagrams to architecture document
- Update Rhapsody model with command - state - singleton design Anders has made when completed

Problems:

-

Next:

- Meeting minutes
- Update with newest changes from Anders
- Format report
- Architecture document chapter 6. Process/task view
- Write on project execution section in the Report
- Appendix screen dumps of test

Next scrum meeting tuesday at 9:00

- Scrum status
- Status on writing Architecture document
- Status on report writing and assignment of tasks
- Continue to 16:00

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Scrum Status 17. May:

Peter:

Done:

- Meeting minutes
- Added text to Chapter 5

Problems:

-

Next:

- Continue writing on chapter 5+6 in architecture document

Anders:

Done:

- Design and implementation of QT controller with command and state pattern

Problems:

-

Next:

- Look at contents for the Architecture document and contents based on theory
- Document discrete system in architecture document
- Finalize chapter 10 in architecture document

Kim:

Done:

- AssignRecord -> ChangeRecord
- Update SampleSet according to RecordTest project. Add gain attribute to Sample
- Add Metadata to Framebuffer Class
- Consider how to set parameters in filters
- Add text to ch 13+14 in Architecture Doc

Problems:

-

Next:

- Write on project execution section in the Report
- Format report
- Add mediator and singleton diagrams to architecture document
- Update Rhapsody model with command - state - singleton design Anders has made when completed

Next scrum meeting wednesday at 15:30

- Scrum status
- Status on writing Architecture document
- Status on report writing and assignment of tasks
- Review implementation of the discrete model
- Continue to 17:00

Action list (Backlog) to final delivery 04. june:

- Finalize Requirement Specification
- Finalize Product Architecture Document
- Finalize Test Documentation
- Finalize Project Report
- Prototype with Use Case #1 (Run Simulation) and #2 (Select and initiate Scenario) implemented
- GUI design and change of views based on the discrete model
- Integrate Rhapsody model with GUI and FrameBuffer observer
- Implement ECG to EDR filter
- Implement ECG to Pulse filter
- Implement Serial Port Interface
- Optionally implement Use Case #3 (Adjust Scenario Parameters)

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Scrum Status 10. May:

Peter:

Done:

- Meeting minutes
- Implemented WDFB interface
- Implemented annotation import

Problems:

-

Next:

- DAC
- Implement ECG to EDR filter
- Implement ECG to Pulse filter
- Implement Serial Port Interface
- Consider how to set parameters in filters
- Add text to ch 5+6 in Architecture Doc

Anders:

Done:

- written a bit in chapter 10, General Design Descisions

Problems:

-

Next:

- Look at contents for the Architecture document and contents based on theory
- Design of the controller with command and state pattern and use inputs from Exercise1-5
- GUI design and change of views based on the discrete model
- Integrate Rhapsody model with GuI and FrameBuffer observer

Kim:

Done:

- Updated Rhapsody model with new design for continous part
- FrameBuffer observer pattern
- Test with loader for continous part and FrameBuffer observer
- Generated and compile Sapien with Qt - test loader and starting of threads

Problems:

-

Next:

- AssignRecord -> ChangeRecord
- Update SampleSet according to RecordTest project. Add gain attribute to Sample
- Add Metadata to Framebuffer Class
- Consider how to set parameters in filters
- Add text to ch 13+14 in Architecture Doc

Next scrum meeting monday at 11:30

- Scrum status
- Review implementation of the discrete model
- Merge discrete system into existing system.
- Continue to 17:00

Action list (Backlog) to final delivery 04. june:

- Finalize Requirement Specification
- Finalize Product Architecture Document
- Finalize Test Documentation
- Finalize Project Report
- Prototype with Use Case #1 (Run Simulation) and #2 (Select and initiate Scenario) implemented
- Optionally implement Use Case #3 (Adjust Scenario Parameters)

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Scrum Status 03. May:

Peter:

Done:

- Reading about how to generate EDR signals

Problems:

-

Next:

- Implement next in RecordWfdb for annotation and sample
- Strip part to generate EDR from ECG signals ECGtoEDR
- Serial port wrapper
- Look at how to generate pulse from EDG annotation

Anders:

Done:

- Draft state diagram for discrete part (Scenario, start stop ..)

Problems:

-

Next:

- Look at contents for the Architecture document and contents based on theory
 - Where to put Rhapsody diagrams in document
- Start writing chapter 10 General Design Decisions
- Design of the controller with command and state pattern and use inputs from Exercise1-5
- GUI design and change of views based on the discrete model
- Integrate Rhapsody model with GUI and FrameBuffer observer

Kim:

Done:

- Meeting minutes
- Devkit8000 for development
- Continuous model in Rhapsody look for patterns (Proxy, Pipes and filters)
- Qt with Rhapsody and DAC on target (Qt, WfDB, Rhapsody, Dac, Abstract LinuxOS)
- Look on how EDR works - how to use it in our system

Problems:

-

Next:

- Update Rhapsody model with new design for continuous part
- Thread model - PatientModel and ConThread
- FrameBuffer observer pattern
- Test with loader for continuous part and FrameBuffer observer
- Generate and compile Sapien with Qt - test loader and starting of threads
 - To be completed Friday and mail to Anders

Next scrum meeting Monday at 11:30

- Scrum status
- Running on target - new design
- Update of Architecture documents with drawings of 1. iteration
- Continue to 17:00

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Scrum Status 26. April:

Peter:

Done:

- Reading patient records running on target with analogue output

Problems:

- WFDB compile to target

Next:

- ...

Anders:

Done:

- Crosscompile and running on target (Wfdb+Qt)

Problems:

- Touch on target doesn't work

Next:

- State diagram for discrete part of system (Paper)

Kim:

Done:

- Start writing the architecture document
- Meeting minutes
- UC#1 scenario
- Suggestion for logical view in Rhapsody

Problems:

-

Next:

- Meeting minutes
- Devkit8000 for development
- Continuous model in Rhapsody look for patterns (Proxy, Pipes and filters)
- Qt with Rhapsody and DAC on target (Qt, Wfdb, Rhapsody, Dac, Abstract LinuxOS)
- Look on how EDR works - how to use it in our system

Next scrum meeting monday at 9:00 (Anders at 11:00)

- Scrum status
- Design for discrete, process (State, Command, others)
- Continue the hole Monday

Action list (Backlog) to 1. delivery 11. may:

1. week

- Domain + application model (Kim)
- Use Case scenarios for #1 (Kim)
- Reading wfdb on target sending data on port (Peter)
- Qt running on target reading wfdb record and plotting (Anders)

2. week

- Draft architecture document with UC #1
- Design model 4+1 view
- Qt prototype display wfdb records same time as data on port

3. week

- Architecture document with 4+1 view of UC #1
- Design implemented for first prototype including UC #1

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Scrum Status 23. April:

Peter:

Done:

- Writing class with thread safe opening of DAC and output of signals

Problems:

- WFDB compile to target

Next:

- Reading patient records running on target with analogue output (Done same day)
- ...

Anders:

Done:

- Reading patient record and display of WFDB - ECG waveform on Linux

Problems:

- Crosscompile Qt to target

Next:

- Crosscompile and running on target
- Draft layout of Qt user interface

Kim:

Done:

- Meeting minutes
- Draft Domain + application model in Rhapsody

Problems:

- How to make the design? How to start?

Next:

- Start writing the architecture document
- UC#1 scenario
- Suggestion for logical view

Next scrum meeting monday at 9:00

- Scrum status
- Logical view for UC#1

Action list (Backlog) to 1. delivery 11. may:

1. week

- Domain + application model (Kim)
- Use Case scenarios for #1 (Kim)
- Reading wfdb on target sending data on port (Peter)
- Qt running on target reading wfdb record and plotting (Anders)

2. week

- Draft architecture document with UC #1
- Design model 4+1 view
- Qt prototype display wfdb records same time as data on port

3. week

- Architecture document with 4+1 view of UC #1
- Design implemented for first prototype including UC #1

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Steps for design and analyses 19. april:

Analysis

- Domain model
 - Class diagram
- Application model
 - Control and boundary classes
 - Sequence diagram for UC #1

Design

- Design model 4+1 view
- See Sapien190SystemArkitekturDokument
 - Use case view - scenarios
 - Logical view - packages - UC realization
 - Process task view -
 - Deployment view
 - Implementation view - components
 - Mechanistic design using design patterns

Actions:

Risk analysis

- To do On target
 1. Read wfdb files (Kim)
 2. Send content of wfdb files to analogue ports (Peter)
 3. Qt reading wfdb files on target (Anders)
 4. Integration of first demo reading wfdb files and sending contents to analogue ports while writing curve in Qt

Parallel - in Rhapsody

- Domain model for UC #1 in Rhapsody (Kim)
- Application model for UC #1 in Rhapsody - scenario (Kim)
- Design 4+1 view see above

Design patterns that could be relevant:

- State
- Command
- Memory Pool
- Singleton
- Observer
- Smartpointers
- Strategy
- Two part architecture (discrete - continuous)

Draft plan before 1. delivery 11. may:

1. week

- Domain + application model (Kim)
- Use Case scenarios for #1 (Kim)
- Reading wfdb on target sending data on port (Peter)
- Qt running on target reading wfdb record and plotting (Anders)

2. week

- Design model 4+1 view
- Qt prototype display wfdb records same time as data on port

3. week

- Architecture document
- Design implemented for first prototype
- 1. delivery 11. may

Development methodology:

- ROPES and UP
- SCRUM?