|  |
| --- |
| **Process Report** |

**Aleksandr Zorin 224493**

**Mihai Barbus 267082**

**Robert Misura 269381**

**Ainis Skominas 266756**

**Vladimir Rotaru 266914**

**Supervisors: Ole Ildsgaard Hougaard**

**Jakob Knop Rasmussen**

**VIA University College Horsens**

**ICT Engineering**

**3nd Semester**

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# Group Policy

# Members of ICT SEP2 Group 7 agree to followings :

# to work together for semester project

# attend at daily scrum meetings

# complete assignments and task on time before meetings

# collaborate and assist group members when needed

# try to be positive and proactive

# use brainstorming session to get optimal solution for group problems

# any problem at individual level or grup level we try to resove it with our resources and if we fail we try to have supervisor help on issue

# Group 7

*Aleksandr Zorin 224493*

*Mihai Barbus 267082*

*Alexandru-Mircea Dima 266006*

# Group Description

Group7 ICT SEP2X is formed by Aleksandr Zorin, Alexandru-Mircea Dima and Mihai Barbus.

Starting from Aleksandr,

He is 23 years old that came to Denmark from Lithuania approximately 3 years ago. Prior to the semester project period start, he has already had experience in projects and has worked with a lot of people with different nationalities. Has been a student in VIA University college for 2 years. He started with Mechanical Engineering, then after 3 semester he left to try Civil Engineering. After 1 semester in Civil he left to take a break and now came back to get a bachelor in Software Development. A quiet and quite lazy guy that doesn’t really like group work that much, but still tries to learn how to work in one.

Next one would be Mihai,

I am 40 years old romanian with permanent residence in Denmark from 2011. I worked since the arriving time in Denmark and for the last 3 year i have studied Danish language for improving my communication skill. Related to education I have one barchelor in economics from Romania, and have almost 10 years working experience in Romanian banking system, and I consider myself used to work and perform well in working groups. I am positive and enjoy new challenges and hopefully sometime after I gather all needed knowleges can have a job in Database

Next one would be Alexandru,

I am 38 years old romanian residing in Denmark for the last four years. I have a background in electronics holding a technician qualification from Business Academy Aarhus. My hopes end expectation are to combined my hardware knowledge with software programing in real life application.

# Process Description

From the very beginning when first phase started we realized that this project is gonna be more complex than our expectation and in order to manage the main process we will use Unified Proces as system development following iterative method covering all four phases : Preparation or Inception, Establisment or Elaboration, Construction and Transition. Futher more we choose to keep track of all developing process using SCRUM development method as main project management. Each iteration fit in one sprint SCRUM and as UP method we have in first phase Inception two iteration Sprint1 and Sprint2. For the Elaboration phase we have Sprint 3 and Sprint 4. In the third UP phase Construction we have Sprint 5 and Sprint 6 , and Sprint 7 is assigned to last phase Transition.

For a propper image of the whole developing process we created a Product Backlog, one Sprint Backlog and Sprintburndownchart . Product Backlog is presented in subchapter 4.2 Task list and below in the following two figures is presents Sprint Backlog and Sprintburndownchart.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint** | **Task** | **Ideal remaining working hour** | **Real remaining working hours** |
|  | Total System | 660 | 660 |
| Sprint 1 | Business modeling &ProjectProposal | 630 | 636 |
|  | Research on Background description & research for definition of purpouse | 600 | 612 |
|  | Background description&DefinitionPurpouse & Research Problem Statement & research choice of model | 570 | 588 |
| Sprint2 | Problem Statement & Delimitation& Research for Time Schedule &Choice of models and methods | 540 | 580 |
|  | Choice of models &Time Schedule& research on Risk Assesment & Source of information | 510 | 566 |
|  | Risk assesment & Source of information & Project description assembly | 480 | 556 |
| Sprint 3 | Project Description Submited & ajustments acording feedback | 450 | 546 |
|  | Requirements | 420 | 536 |
|  | Requirements Use case modeling | 390 | 526 |
| Sprint 4 | Analysis&Design - Design Model | 360 | 502 |
|  | Analysis&Design -Sequence Diagram | 330 | 490 |
|  | Analysis&Design - Class Diagram | 300 | 480 |
|  | Analysis&Design - Data Model | 270 | 467 |
| Sprint 5 | Implementation | 240 | 300 |
|  | Implementation | 210 | 270 |
|  | Implementation | 180 | 240 |
| Sprint 6 | Implementation | 150 | 216 |
|  | Implementation | 120 | 168 |
|  | Implementation | 90 | 136 |
| Sprint 7 | Testing&deployment | 60 | 132 |
|  | Deployment(Documentation) | 30 | 130 |
|  | Deployment(Documentation) | 0 | 120 |

Figure 1 Sprint Backlog

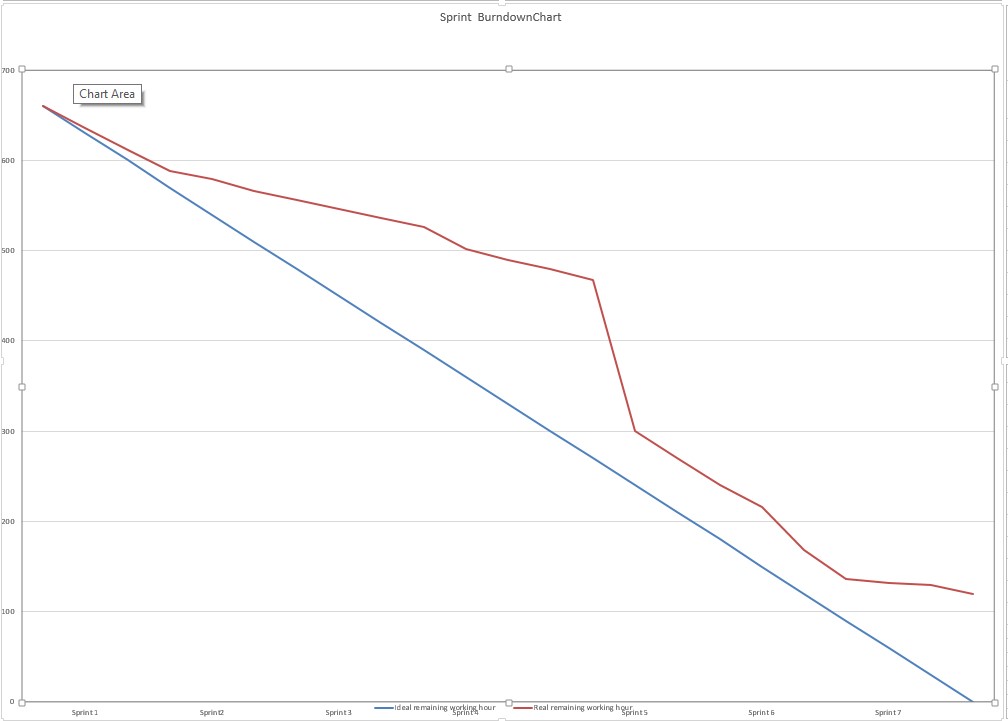


Figure 2 Sprint Burndownchart

# Scrum roles

Product Owner is Alexandru-Mircea Dima whom is the person responsible for product

Scrum Master Mihai Barbus responsible for following and succesfuly complete sprints

Development Team Aleksander Zorin, Mihai Barbus, Alexandru-Mircea Dima

# Task list

For a detalied list of task we attach below in the next figure Product Backlog

|  |  |  |  |
| --- | --- | --- | --- |
| Task Name | Work | Duration | Start |
| **Virtual Board Playground Product Backlog** | **600 hrs** | **24Days** | **Thu 2/8/18** |
| **Sprint 1** | **72 hrs** |  |  |
| Business modeling &ProjectProposal | 24 hrs | 1 day | Thu 2/8/18 |
| *Mihai* | *8 hrs* |  | *Thu 2/8/18* |
| *Alex* | *8 hrs* |  | *Thu 2/8/18* |
| *Aleksander* | *8 hrs* |  | *Thu 2/8/18* |
| Research on Background description & research for definition of purpouse | 24 hrs | 1 day | Thu 2/15/18 |
| *Mihai* | *8 hrs* |  | *Thu 2/15/18* |
| *Alex* | *8 hrs* |  | *Thu 2/15/18* |
| *Aleksander* | *8 hrs* |  | *Thu 2/15/18* |
| Background description&DefinitionPurpouse & Research Problem Statement & research choice of model | 24 hrs | 1 day | Thu 2/22/18 |
| *Aleksander- Background description* | *8 hrs* |  | *Thu 2/22/18* |
| *Alex - Definition of Purpouse* | *8 hrs* |  | *Thu 2/22/18* |
| *Mihai - Research on Delimitation* | *8 hrs* |  | *Thu 2/22/18* |
| **Sprint 2** | **72 hrs** |  |  |
| Problem Statement & Delimitation& Research for Time Schedule &Choice of models and methods | 24 hrs | 1 day | Thu 3/1/18 |
| *Aleksander - Research* | *8 hrs* |  | *Thu 3/1/18* |
| *Alex- Problem Statement* | *8 hrs* |  | *Thu 3/1/18* |
| *Mihai - Delimitation* | *8 hrs* |  | *Thu 3/1/18* |
| Choice of models &Time Schedule& research on Risk Assesment & Source of information | 24 hrs | 1 day | Thu 3/8/18 |
| *Aleksander- Model&Methods* | *8 hrs* |  | *Thu 3/8/18* |
| *Alex- Research* | *8 hrs* |  | *Thu 3/8/18* |
| *Mihai - Time schedule* | *8 hrs* |  | *Thu 3/8/18* |
| Risk assesment & Source of information & Project description assembly | 24 hrs | 1 day | Thu 3/15/18 |
| *Aleksander- Project Description* | *8 hrs* |  | *Thu 3/15/18* |
| *Alex-Risk assesment* | *8 hrs* |  | *Thu 3/15/18* |
| *Mihai - Source of information* | *8 hrs* |  | *Thu 3/15/18* |
| **Sprint 3** | **72 hrs** |  |  |
| Project Description Submited & ajustments acording feedback | 24 hrs | 1 day | Thu 3/22/18 |
| *Mihai* | *8 hrs* |  | *Thu 3/22/18* |
| *Alex* | *8 hrs* |  | *Thu 3/22/18* |
| *Aleksander* | *8 hrs* |  | *Thu 3/22/18* |
| Requirements | 24 hrs | 1 day | Thu 4/5/18 |
| *Mihai -Use cases* | *8 hrs* |  | *Thu 4/5/18* |
| *Aleksander - functional requirements* | *8 hrs* |  | *Thu 4/5/18* |
| *Alex - non functional requirements* | *8 hrs* |  | *Thu 4/5/18* |
| Requirements Use case modeling | 24 hrs | 1 day | Thu 4/12/18 |
| *Mihai* | *8 hrs* |  | *Thu 4/12/18* |
| *Alex* | *8 hrs* |  | *Thu 4/12/18* |
| *Aleksander* | *8 hrs* |  | *Thu 4/12/18* |
| **Sprint 4** | **120 hrs** |  |  |
| Analysis&Design - Design Model | 24 hrs | 1 day | Thu 4/19/18 |
| *Mihai* | *8 hrs* |  | *Thu 4/19/18* |
| *Alex* | *8 hrs* |  | *Thu 4/19/18* |
| *Aleksander* | *8 hrs* |  | *Thu 4/19/18* |
| Analysis&Design -Sequence Diagram | 24 hrs | 1 day | Thu 4/26/18 |
| *Mihai* | *8 hrs* |  | *Thu 4/26/18* |
| *Alex* | *8 hrs* |  | *Thu 4/26/18* |
| *Aleksander* | *8 hrs* |  | *Thu 4/26/18* |
| Analysis&Design - Class Diagram | 24 hrs | 1 day | Thu 5/3/18 |
| *Mihai* | *8 hrs* |  | *Thu 5/3/18* |
| *Alex* | *8 hrs* |  | *Thu 5/3/18* |
| *Aleksander* | *8 hrs* |  | *Thu 5/3/18* |
| Analysis&Design - Data Model | 48 hrs | 2 days | Thu 5/17/18 |
| *Mihai* | *16 hrs* |  | *Thu 5/17/18* |
| *Alex* | *16 hrs* |  | *Thu 5/17/18* |
| *Aleksander* | *16 hrs* |  | *Thu 5/17/18* |
| **Sprint 5** | **88 hrs** |  |  |
| Implementation | 28 hrs | 1 day | Mon 5/28/18 |
| *Alex - Client Server* | *10 hrs* |  | *Mon 5/28/18* |
| *Mihai - GUI* | *8 hrs* |  | *Mon 5/28/18* |
| *Aleksander - Game View* | *10 hrs* |  | *Mon 5/28/18* |
| Implementation | 30 hrs | 1 day | Tue 5/29/18 |
| *Alex - Client Server* | *10 hrs* |  | *Tue 5/29/18* |
| *Mihai - GUI* | *10 hrs* |  | *Tue 5/29/18* |
| *Aleksander - Game logic* | *10 hrs* |  | *Tue 5/29/18* |
| Implementation | 30 hrs | 1 day | Wed 5/30/18 |
| *Mihai - Database adaptor* | *10 hrs* |  | *Wed 5/30/18* |
| *Alex -Server View* | *10 hrs* |  | *Wed 5/30/18* |
| *Aleksander - Client View* | *10 hrs* |  | *Wed 5/30/18* |
| **Sprint 6** | **104 hrs** |  |  |
| Implementation | 24 hrs | 1 day | Thu 5/31/18 |
| *Aleksander - Game* | *8 hrs* |  | *Thu 5/31/18* |
| *Mihai - Database* | *8 hrs* |  | *Thu 5/31/18* |
| *Alex - Chat/Communication* | *8 hrs* |  | *Thu 5/31/18* |
| Implementation | 48 hrs | 2 days | Fri 6/1/18 |
| *Alex - Chat* | *16 hrs* |  | *Fri 6/1/18* |
| *Mihai - Database* | *16 hrs* |  | *Fri 6/1/18* |
| *Aleksander - Game* | *16 hrs* |  | *Fri 6/1/18* |
| Implementation | 32 hrs | 1 day | Tue 6/5/18 |
| *Aleksander- Add Game to GUI* | *8 hrs* |  | *Tue 6/5/18* |
| *Alex - Add Chat to GUI* | *8 hrs* |  | *Tue 6/5/18* |
| *Mihai - Connect Database to GUI* | *16 hrs* |  | *Tue 6/5/18* |
| **Sprint 7** | **72 hrs** |  |  |
| Testing&deployment | 24 hrs | 1 day | Wed 6/6/18 |
| *Aleksander - Complete Documentation* | *8 hrs* |  | *Wed 6/6/18* |
| *Alex - Testing* | *8 hrs* |  | *Wed 6/6/18* |
| *Mihai - Complete Documentation* | *8 hrs* |  | *Wed 6/6/18* |
| Deployment(Documentation) | 24 hrs | 1 day | Thu 6/7/18 |
| *Mihai - Process Report* | *8 hrs* |  | *Thu 6/7/18* |
| *Alex - Project Report* | *8 hrs* |  | *Thu 6/7/18* |
| *Aleksander - Project Report* | *8 hrs* |  | *Thu 6/7/18* |
| Deployment(Documentation) | 24 hrs | 1 day | Fri 6/8/18 |
| *Mihai - Process Report* | *8 hrs* |  | *Fri 6/8/18* |
| *Alex - Project Report* | *8 hrs* |  | *Fri 6/8/18* |
| *Aleksander - Project Report* | *8 hrs* |  | *Fri 6/8/18* |

Figure 3 Product Backlog

# daily scrum meeting log

|  |  |
| --- | --- |
| Start |  |
| Thu 2/8/18 | **Meeting no : 1**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : business modeling  Aleksander Z : project proposal  Mihai B : project proposal  **What you want to do?**  Alexandru D : research definition of purpouse  Aleksander Z : research background description  Mihai B : research definition of purpouse  **What problems you have?**  Alexandru D : Questionable understanding of problems  Aleksander Z : Questionable understanding of problems  Mihai B : Questionable understanding of problems |
| Thu 2/15/18 | **Meeting no : 2**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : research definition of purpouse  Aleksander Z : research background description  Mihai B : research definition of purpouse  **What you want to do?**  Alexandru D : Definition of purpouse  Aleksander Z : Background description  Mihai B : Research on Delimitations  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 2/22/18 | **Meeting no : 3**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Definition of purpouse  Aleksander Z : Background description  Mihai B : Research on Delimitations  **What you want to do?**  Alexandru D : Problem Statement  Aleksander Z : Research  Mihai B : Delimitation  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 3/1/18 | **Meeting no : 4**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Problem Statement  Aleksander Z : Research  Mihai B : Delimitation  **What you want to do?**  Alexandru D : research  Aleksander Z : Model and risk  Mihai B : time schedule  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 3/8/18 | **Meeting no : 5**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : research  Aleksander Z : Model and risk  Mihai B : time schedule  **What you want to do?**  Alexandru D : Risk  Aleksander Z : Project description  Mihai B : Source of information  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 3/15/18 | **Meeting no : 6**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Risk  Aleksander Z : Project description  Mihai B : Source of information  **What you want to do?**  Alexandru D : Project description and Ajustments  Aleksander Z : Project description and Ajustments  Mihai B : Project description and Ajustments  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 3/22/18 | **Meeting no : 7**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Project description and Ajustments  Aleksander Z : Project description and Ajustments  Mihai B : Project description and Ajustments  **What you want to do?**  Alexandru D : non dunctional requirements  Aleksander Z : functional requirements  Mihai B : Use cases  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 4/5/18 | **Meeting no : 8**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : non dunctional requirements  Aleksander Z : functional requirements  Mihai B : Use cases  **What you want to do?**  Alexandru D : use case modeling  Aleksander Z : use case modeling  Mihai B : use case modeling  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 4/12/18 | **Meeting no : 9**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : use case modeling  Aleksander Z : use case modeling  Mihai B : use case modeling  **What you want to do?**  Alexandru D :Design model  Aleksander Z :Design model  Mihai B : Research Sequence diagram  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 4/19/18 | **Meeting no : 10**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D :Design model  Aleksander Z :Design model  Mihai B : Research Sequence diagram  **What you want to do?**  Alexandru D : Class diagram  Aleksander Z : Class diagram  Mihai B : Class Diagram  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 4/26/18 | **Meeting no : 11**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Class diagram  Aleksander Z : Class diagram  Mihai B : Class Diagram  **What you want to do?**  Alexandru D : Data model  Aleksander Z : Data model  Mihai B : Data model  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 5/3/18 | **Meeting no : 12**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Data model  Aleksander Z : Data model  Mihai B : Data model  **What you want to do?**  Alexandru D : Client Server  Aleksander Z : Game view  Mihai B : GUI  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 5/17/18 | **Meeting no : 13**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Client Server  Aleksander Z : Game logic  Mihai B : GUI  **What you want to do?**  Alexandru D : Client Server  Aleksander Z : Game logic  Mihai B : GUI  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Mon 5/28/18 | **Meeting no : 14**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Client Server  Aleksander Z : Game logic  Mihai B : GUI  **What you want to do?**  Alexandru D : Client Server  Aleksander Z : Game logic  Mihai B : GUI  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Tue 5/29/18 | **Meeting no : 15**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Client Server  Aleksander Z : Game logic  Mihai B : GUI  **What you want to do?**  Alexandru D : Server view  Aleksander Z : game  Mihai B : Database adapter  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B **:** |
| Wed 5/30/18 | **Meeting no : 16**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Server view  Aleksander Z : Game  Mihai B : Database adapter  **What you want to do?**  Alexandru D : Chat/main comunication  Aleksander Z : game  Mihai B : Database  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 5/31/18 | **Meeting no : 17**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : Chat/main comunication  Aleksander Z : game  Mihai B : Database  **What you want to do?**  Alexandru D : chat  Aleksander Z : game  Mihai B : database  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Fri 6/1/18 | **Meeting no : 18**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : chat  Aleksander Z : game  Mihai B : create database  **What you want to do?**  Alexandru D : add chat to gui  Aleksander Z : add game to gui  Mihai B : connect database to gui  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Tue 6/5/18 | **Meeting no : 19**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : add chat to gui  Aleksander Z : add game to gui  Mihai B : connect database to gui  **What you want to do?**  Alexandru D : complete documentation  Aleksander Z : testing  Mihai B : complete process report  **What problems you have?**  Alexandru D : communication cant be display in gui  Aleksander Z :  Mihai B : postgres driver |
| Wed 6/6/18 | **Meeting no : 20**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : complete documentation  Aleksander Z : testing  Mihai B : process report  **What you want to do?**  Alexandru D : project report  Aleksander Z : project report  Mihai B : process report  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Thu 6/7/18 | **Meeting no : 21**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : project report  Aleksander Z : project report  Mihai B : process report  **What you want to do?**  Alexandru D : complete project report  Aleksander Z : complete project report  Mihai B : complete process report  **What problems you have?**  Alexandru D :  Aleksander Z :  Mihai B : |
| Fri 6/8/18 | **Meeting no : 22**  Attendance : Alexandru Dima, Aleksander Zorin, Mihai Barbus  **What have you done?**  Alexandru D : complete project report  Aleksander Z : complete project report  Mihai B : complete process report  **What you want to do?**  Alexandru D :  Aleksander Z :  Mihai B :  **What problems you have?**  Alexandru D : not enough time  Aleksander Z :  Mihai B : |

Figure 4 Daily Scrum meetings

# Supervision meetings

Even thow we have just one schedule meeting with supervisors Ole Ildsgaard Hougaard and Martin Zmija we have several unscheduled meetings during semester project

|  |  |
| --- | --- |
| Fri 6/6/18 | Attendance Supervisor : Martin Zmija  Duration : 1.5 hour  **What have you done?**  Issue with display game on main GUI  Issue with Chat communication  Issue with stop threads  **Result of meeting :** we fix almost all problems, just having still problems with killing thread that contain another thread active |

# personal consideration

Mihai Barbus

All in all is a good experience over the semester project, with good improvement in social skills, specialized specific language and not at last knowledge. I think we cover almost all ICT semester two part, starting with java design patterns, managing database and develop engineer skills. We did not succed to implement all project, but we try to prioritize and implement the most challenging parts . For future I need to improve Time Management and perform better as Scrum Master roles because according to Sprint Burndownchart we were behind ideal schedule. Another issue was group communication and we keep struggling with this problem till end of project.

Alexandru-Mircea Dima

Project developing wise, I am glad that I had the chance to test my knowledge and skills in implementing software using Java, and also to get a clearer idea about wich are my strong and weak points regarding programming.

Process wise, from this project I take knowledge about developing software using SCRUM and U.P. methodology . I also found out how the project will be affected by task time estimation that are not in concordance with the actual time required.

Futurewise, I will like to use these methodologies, since now I feel better prepared.

# Future development and sep overview

SEP2 projects mainly consist in a multi client server implemented in java with representative design patterns like MVC or adaptor, mandatory for conections between model and database