



Winter is Coming

SOFTWARE ENGINEERING 2

COMPUTATIONAL CLUSTER

March 3rd, 2015

Abramczyk Patryk

Kamiński Jakub

Frankowski Andrzej

Mielnicki Karol

Technology

We decided to choose C# language in .NET because it is the one of the leading technologies in computer science nowadays. .NET gives us a lot of possibilities, build-in functions and what is the most important, it is well known by all team's members. Another advantage of C# is the fact that, to implement communication part we can easily use XML standard.

Methodology

We chose the spiral model, thanks to its safe risk pattern. Our task is not well planned and its hard to predict future progress and the results compared to requirements. Along with next iterations we will be able to verify and validate our results, determine new objectives and eventually resolve older issues and risks in next prototype. Also thanks to this model we will be able to adopt elements of one or more other process models, what will provide us a lot of flexibility.

Task division

Tasks will be divided equally between members. The division so far is rather approximate and there may be changes during progress.

Tasks:

1. Repository
2. Communication
3. Message parsing
4. Server implementation
5. Nodes implementation
6. Task manager implementation
7. Client implementation
8. Error handling
9. Final tests
10. Necessary corrections. (If needed)

Week 3 (03.10.15-10.10.15)

Task	Assignee	Approx. time	Time
Setting up Repository	Andrzej	5min	4min
Create a prototype of Task Manager	Patryk	3h	1h
Create a prototype of Computational Client	Andrzej	5h	1h
Set up a prototype for communication Server	Andrzej	3h	1h
Set up a connection class	Patryk	6h	3h

Weeks 4 up to 6 (10.03.15 - 31.03.15)

Task	Assignee	Approx. time	Time
Implementation of message methods and classes	Andrzej, Patryk	8h	3h
Further improvements for Communications	Karol, Kuba	2h	2h

Week 6 up to 9 (31.03.15 - 21.04.15)

Task	Assignee	Approx. time	Time
Algorithm Implementation	Karol, Andrzej	6h	
Unit Testing	Patryk, Kuba	3h	

Week 9 up to 13 (21.04.15 - 09.06.15)

Task	Assignee	Approx. time
Final touches and optimisation of algorithm	Kuba, Karol	5h
Error handling and bug fixing	Patryk, Andrzej	5h