Team Decided – Raft Consensus

Iteration Plan 2 - Starting 07/03/2018

1.   Key Milestones

Milestone	Date
Iteration Start	07/03/2018
Complete Phase 1: Research	
Iteration End	14/03/2018

2.   High-level Objectives

ID	Objective	Date
1	Research API design	14/03/2018
2	Research and decide on logging framework	14/03/2018
3	Research and decide on networking framework	14/03/2018
4	Research and decide on how security is going to work	14/03/2018
5	Research unit testing framework	14/03/2018
6	Research and decide if TDD is applicable to project	14/03/2018
7	Research if useful to have automated testing, like Jenkins	14/03/2018
8	Research if possible to make a Nuget package, or it's closed	14/03/2018
9	Research Pair Programming best practices	14/03/2018
10	Research Raft protocol to get a better understanding	14/03/2018

3. Evaluation Criteria

Obj. ID	Evaluation Criteria
1	We documentation available to reference for when designing the API
2	Decide on a logging framework
3	Decide on a networking framework
4	Decide on how security will work
5	Decide on a unit testing framework
6	Decide if TDD is applicable to the project
7	Decide if automated testing is applicable to the project
8	Confirm whether we will be able to put our library on Nuget
9	Each read documentation on pair programming best practices
10	Watch the 1 hour Raft video and read the Raft PDF

4. Work Item Assignments

State:

C – Complete

P – In Progress

W – Waiting to start

Work ID	Name or keywords	Outcome	State	Assigned to	Est (hrs)	Act (hrs)	Left (hrs)
1.1	Locate reference for designing API	The Little Manual of API Design by Jasmin Blanchette	C	Sean	0:15	0:10	0:00
2.1	Decide logging framework	Decided on NLog	C	Joshua	0:15	0:15	0:00
3.1	Decide on networking framework	Decided to write our own minimalist networking library	C	Joshua	0:15	0:45	0:00
4.1	Decide on how security will work	Thinking DHKE Ephemeral, and AES as PSK. Start with Inferno library. TLS is too much.	P	Joshua	1:00	0:20	0:00
5.1	Decide on a unit testing framework	Use visual studios built in	C	Team	0:15	0:10	0:00
6.1	Decide if TDD is applicable to the project	Yes, we will use TDD	C	Team	0:15	0:05	0:00
7.1	Decide if automated testing is applicable to the project	No, we currently do not require automated testing	C	Team	0:15	0:05	0:00

8.1	Confirm whether we will be able to put our library on Nuget	Yes, it's very easy	C	Sean	0:15	0:05	0:00
9.1	Read documentation on pair programming best practices	Lots of compliments	P	Team	0:15	0:15	0:00
10.1	Watch the 1 hour Raft video and read the Raft PDF	Watched a couple videos and read PDF	P	Sean	2:00	2:30	0:00
				Totals	**5:00**	**4:40**	**0:00**

5. Issues

Issue	Status	Notes

6. Assessment

Assessment target	Iteration 2	
Assessment date	14/03/2018	
Participants	All	
Project status	Green	
Assessment against objectives	**Objective**	**Result**
	We have documentation available to reference for when designing the API	Completed the reading
	Decide on a logging framework	Confirmed logging framework
	Decide on a networking framework	Confirmed we will design our own networking
	Decide on how security will work	Confirmed on basic outline for security
	Decide on a unit testing framework	Confirmed wil use VS inbuilt
	Decide if TDD is applicable to the project	Confirmed, yes, it will be
	Decide if automated testing is applicable to the project	Confirmed that for now we'll not use this
	Confirm whether we will be able to put our library on Nuget	Confirmed, yes, we can
	Watch the 1 hour Raft video and read the Raft PDF	Completed

Work items	No added work items
Other concerns and deviations	