

Team Decided – Raft Consensus

Inception Iteration Plan 3 - Starting 09/04/2018

1. Key Milestones

Milestone	Date
Iteration Start	09/04/2018
Complete the Initial Requirement Model	14/04/2018
Write the Master Test Plan	14/04/2018
Compile section below into submittable document	14/04/2018
Write an Inception Phase Status Assessment	14/04/2018
Complete quality review of document	14/04/2018
Complete design/diagramming/TDD for RaftNetworking + Security	21/04/2018
Complete design/diagramming/TDD for Raft-DistributedLog	21/04/2018
Complete design/diagramming/TDD for Raft-NodeInfo	21/04/2018
Complete design/diagramming/TDD for Raft-Messages	21/04/2018
Complete design/diagramming for Raft Consensus + API	21/04/2018
Iteration End	23/04/2018

2. High-level Objectives

ID	Objective	Date
1	Complete the Initial Requirement Model	14/03/2018
2	Write the Master Test Plan	14/03/2018
3	Compile section below into submittable document	14/04/2018
4	Write an Inception Phase Status Assessment	14/04/2018
5	Complete quality review of document	14/04/2018
6	Complete design/diagramming/TDD for RaftNetworking + Security	21/04/2018
7	Complete design/diagramming/TDD for Raft-DistributedLog	21/04/2018
8	Complete design/diagramming/TDD for Raft-NodeInfo	21/04/2018
9	Complete design/diagramming/TDD for Raft-Messages	21/04/2018
10	Complete design/diagramming/TDD for Raft Consensus + API	21/04/2018

3. Evaluation Criteria

Obj. ID	Evaluation Criteria
1	Complete the Initial Requirement Model
2	Write the Master Test Plan
3	Compile section below into submittable document
4	Write an Inception Phase Status Assessment
5	Complete quality review of document
6	Complete design/diagramming/TDD for RaftNetworking + Security
7	Complete design/diagramming/TDD for Raft-DistributedLog
8	Complete design/diagramming/TDD for Raft-NodeInfo
9	Complete design/diagramming/TDD for Raft-Messages
10	Complete design/diagramming/TDD for Raft Consensus + API

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	Complete the Initial Requirement Model	Complete	C	Joshua	6:00	3:00	0:00
2.1	Write the Master Test Plan	Complete	C	Sean	10:00	4:00	0:00
3.1	Compile section below into submittable document	Complete	C	Sean	1:00	2:00	0:00
4.1	Write an Inception Phase Status Assessment	Complete	C	Sean	4:00	8:00	0:00
5.1	Complete quality review of document	Complete	C	Joshua	1:00	0:30	0:00
6.1	Complete design/diagramming /TDD for RaftNetworking + Security	Completed all but the TDD	P	Sean	4:00	8:00	6:00
7.1	Complete design/diagramming /TDD for Raft-DistributedLog	Completed all but the TDD	P	Joshua	2:00	4:00	2:00
8.1	Complete design/diagramming /TDD for Raft-NodeInfo	Completed all but the TDD	P	Sean	2:00	4:00	2:00
9.1	Complete design/diagramming /TDD for Raft-Messages	Completed all but the TDD	P	Joshua	2:00	4:00	4:00
10.1	Complete design/diagramming/TDD for Raft Consensus + API	Outlined API, but only at draft quality	P	Sean	4:00	0:30	8:00
Totals					36:00	38:00	22:00

5. Issues

Issue	Status	Notes
Cannot complete Requirement Model, do not understand instructions.	Closed	Discussed with Jim, this cleared it up the issues we had, were able to complete document
Master Test Plan - We do not understand how to write the document	Closed	Discussed with Jim, this cleared it up the issues we had, were able to complete document
Did not complete desired amount of work in timeframe	Closed	After getting the extension from Jim, we were able to complete LCOM within the extension period
Designing Networking took us far longer than expected	Closed	One of those things we cannot project, so we'll just have to be less optimistic in the future and appreciate the depth of tasks we are unfamiliar with
Did not think of Logging, so we had to design a wrapper for that	Closed	We had to look into NUnit and design a wrapper which would be logging framework agnostic for Raft.
Continued underestimating the amount of time tasks take	Open	Failed to estimate how long designing/diagramming/TDD of the various Raft component would take. Did not complete Raft itself, or any TDD.

6. Assessment

Assessment target	Inception Iteration 3	
Assessment date	23/04/2018	
Participants	All - Joshua and Sean	
Project status	Orange	
Assessment against objectives	Objective	Result
	Complete the Initial Requirement Model	Complete
	Write the Master Test Plan	Complete
	Compile section below into submittable document	Complete
	Write an Inception Phase Status Assessment	Complete
	Complete quality review of document	Complete
	Complete design/diagramming/TDD for RaftNetworking + Security	In Progress
	Complete design/diagramming/TDD for Raft-DistributedLog	In Progress
	Complete design/diagramming/TDD for Raft-NodeInfo	In Progress
	Complete design/diagramming/TDD for Raft-Messages	In Progress
	Complete design/diagramming/TDD for Raft Consensus + API	In Progress
Work items		
Other concerns and deviations		