Team Decided – Raft Consensus

Inception Iteration Plan 13 - Starting 17/09/2018

1.   Key Milestones

Milestone	Date
Iteration Start	17/09/2018
Produce Demo Day Video	30/09/2018
Refactor Prototype into MVC architecture	30/09/2018
Investigate and understand PRM requirements, produce estimates	30/09/2018
Start on Programmer Documentation	30/09/2018
Iteration End	30/09/2018

2. High-level Objectives

ID	Objective	Date
1	Produce Demo Day Video	30/09/2018
2	Refactor Prototype into MVC architecture	30/09/2018
3	Investigate and understand PRM requirements, produce estimates	30/09/2018
4	Start on Programmer Documentation	30/09/2018

3. Evaluation Criteria

Obj. ID	Evaluation Criteria
1	Complete and email to Jim a Demo Day Video
2	Successful refactoring of the Prototype into MVC architecture
3	Understand the requirements for the PRM assessment, and plan out what needs to be done with some estimates/focus points
4	Produce an overview architecture image for Programmer Documentation, also have an idea of all of the sections for the rest of this component

4. Work Item Assignments

State:

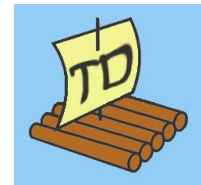C – Complete
P – In Progress
W – Waiting to start

Work ID	Name or keywords	Outcome	State	Assigned to	Est (hrs)	Act (hrs)	Left (hrs)
1	Produce Demo Day Video	Completed and emailed to Jim	C	Joshua	12:00	10:30	0:00
2	Refactor Prototype into MVC architecture	Completed refactor into MVC style "MPV-C"	C	Sean	10:00	30:00	0:00
3	Investigate and understand PRM requirements, produce estimates	Understand the requirements, plan out how to attack assessment, produced estimates and what to focus on	C	Joshua	3:00	4:00	0:00
4	Start on Programmer Documentation	Produced Architecture image with draw.io, planned out sections to speak about	P	Sean	70:00	20:00	50:00
				Totals	**95:00**	**64:30**	**50:00**

5. Issues

Issue	Status	Notes
Needing to convert prototype to MVC	Closed	The technical debt on the prototype is getting too large and unwieldy, we're going to need to invest time to get change it over to a proper MVC style codebase before submission as the code will be a demo for users to study
Issues converting prototype to MVC	Closed	At the time winforms was developed the MVC pattern wasn't at the forefront it is today. Consequently it was difficult to implement the pattern in the current environment. We looked at updating the project to WPF which has been developed with MVC and MVP architecture in mind however it quickly became apparent there was a very steep learning curve associated with the construction of appealing GUI's. While the implementation for the pattern was very straight forward the GUI presentation was just atrocious and WPF was already legacy as well! In the end we implemented a controller pattern which looks after several model-presentation-view patterns.
Bug with displaying persistent stored entries in Prototype	Open	Found bug where the stored persistent entries don't turn up on the DataGridView on the prototype. This is because the DataGridView is only updated on new commits based on an event firing. Need to give some ability for the prototype to load previous log entries from persistent storage. This will get fixed next iteration
Needed rebranding	Closed	Since we're coming up to a release of the project, we've realised we're actually using the official Raft .ico/png image everywhere without permission. Since our project isn't officially sanctioned, and we'd get shot down for asking for permission anyway, we needed to get new branding images for everything. Sean knocked us up a few, and we settled on this one
Found bug	Open	Sean while finishing off the prototype MVC found a bug that needs to be fixed, it has to do with an edge case of persistent vs non-persistent implementations working out who should be leader. This was found at the end of this iteration and will get fixed in the next iteration.

6. Assessment

Assessment target	Inception Iteration 13	
Assessment date	30/09/2018	
Participants	All - Joshua and Sean	
Project status	Green - After a huge amount of work getting the Prototype moved to MVC we're now stronger for our PRM release of the code, and we're on track starting PRM early as per our prerogative from Project Plan	
Assessment against objectives	**Objective**	**Result**
	Produce Demo Day Video	Completed and emailed to Jim
	Refactor Prototype into MVC architecture	Completed refactor into MVC style "MPV-C"
	Investigate and understand PRM requirements, produce estimates	Understand the requirements, plan out how to attack assessment, produced estimates and what to focus on
	Start on Programmer Documentation	Produced Architecture image with draw.io, planned out sections to speak about