<u>Inspect</u>
Elaboration Iteration 1 Plan

1. Key milestones

Milestone	Date
Iteration start	15 Apr
Implement Log Manager	20 Apr
Implement Conversion Manager	20 Apr
Implement Template	22 Apr
Implement Template Editor	24 Apr
Unit Testing - Conversion Manager	26 Apr
Unit Testing - Template Editor	26 Apr
Integration Testing Between Template, Conversion Manager and Template Editor	28 Apr
Finalise work items and upload to repo	28 Apr
Blog	28 Apr
Iteration stop	28 Apr

2. High-level objectives

1.   Implement Log Manager
2.   Implement Conversion Manager
3.   Implement Template
4.   Implement Template Editor
5.   Unit Testing - Conversion Manager
6.   Unit Testing - Template Editor
7.   Integration Testing Between Template, Conversion Manager and Template Editor
8.   Finalise work items and upload to repo

3. Evaluation criteria

1.   Implement Log Manager functionality as agreed with team.
2.   Implement Conversion Manager functionality as agreed with team.
3.   Implement Template functionality as agreed with team.
4.   Implement Template Editor functionality as agreed with team.
5.   Perform Unit Testing of the Conversion Manager as agreed with team.
6.   Perform Unit Testing of the Template Editor as agreed with team.
7.   Perform Integration Testing Between Template, Conversion Manager and Template Editor as agreed with team.
8.   Finalise work items and upload to repo as per subject outline and as agreed with team.

4. Work Item assignments

The following Work Items will be addressed in this iteration:

Work Item ID	Name or keywords of description	Outcome	State	Assigned to (Name)	Est. Hours	Hours Worked	Estimate of hours remaining
1.0	**Implement Conversion Manager**	Implement Highest Priority Architectural Element(s) to Support CCRD Use Case completed as per subject outline and as agreed with team. **Conversion Manager** https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/java/com/example/inspect/ConversionManager.java **Print Adapter** https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/java/com/example/inspect/ViewPrintAdapter.java	Complete				
1.1	Create Mock Template	This will be a "view" with enough objects to make up a couple pages to test formatting of exported pdfs.		Jasmine Michael	4	1 2	
1.2	Export mock template to pdf	Implement pdf export functionality. Will have to be revised when templates are finalized		Michael	4		
1.2.1	Initial print to pdf functionality.			Michael		4	
1.2.2	Added to pdf export functionality, fixed some issues.			Michael		1	
1.2.3	Adapted pdf export functionality to account for layout changes in template.			Michael		1	

1.2.4	Pdf exports now supports multiple pages			Michael		2	
1.3	Export real template to pdf	Using lessons learned in exporting the mock template, adapt current implementation to a "real" modified template.					
2.0	**Implement Log Manager**	**Log Manager** https://github.com/MethodicalMadness/Inspect/blob/master/app/src/main/java/com/example/inspect/LogManager.java	Complete				
2.1	Create class and functionality			Conrad Elias	2 2		
2.1.1	Research into Android file use for log read/write access and implementation			Conrad		2	
2.1.2	Researched methods within Android which carry out sending and writing error messages to log files. From this, created methods e and logToFile for each role the LogManager class.			Elias		2.5	
2.1.3	Extra research and development of LogManager			Conrad		1.5	
2.1.4	Researched and revised method implementation within the LogManager class.			Elias		1	
2.1.5	Further research on methods and classes that allow for static methods to pass context variables. Implemented the App class and made all static methods able to pass context variables. Created pull request to merge with master and resolved conflicts.	**App** https://github.com/MethodicalMadness/Inspect/blob/E1_Elias/app/src/main/java/com/example/inspect/App.java		Elias		2	
2.2	Create Error and Status Announcement GUI	UI for it: https://github.com/MethodicalMadness/Inspect/commit/ee4bd7cb2bc8	In Progress	Jasmine	2	2	

		8ab6bbd23ae035c3ad660a58cc2d					
3.0	**Implement Template**	**Template** https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/java/com/example/inspect/Template.java	In Progress				
3.1	Create Element Class	Elements made up of a label and text field or image field.		Michael Jasmine Conrad Elias	4 4 4 2		
3.1.1	Created a simple text field (view)	https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/res/layout/text_field.xml		Michael		1	
3.2	Create Blank Template Class	A blank template for modifying. Essentially a canvas.		Elias	2		
3.2.1	Created a new (blank) template activity	https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/res/layout/template_editor.xml		Michael		2	
3.2.2	Gave template A4 page dimensions			Michael		1	
4.0	**Implement Template Editor**	**Template Editor** https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/java/com/example/inspect/TemplateEditor.java **Layout (xml file)** https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/res/layout/template_editor.xml	In Progress				
4.1	Modify Template	Add/Remove Element Class into (or on top of in a rendering sense) Template Class Canvas.		Conrad	4		
4.1.1	Research into UI for template			Conrad		1.5	
4.1.2	Implemented add text field			Michael		1	

4.1.3	Implemented add page functionality and supporting layout	https://github.com/MethodicalMadness/Inspect/blob/E1_Michael/app/src/main/res/layout/new_page.xml		Michael		2	
4.1.4	Researched examples of different types of templates/checklists as well as reports.			Elias		1	
4.2	Create GUI for modifying template and export to pdf	Simple GUI to complete the actions of creating a template.		Jasmine	4	2	
4.2.1	Implemented simple GUI and functionality for adding text field, and remove "children"			Michael		0.5	
4.2.2	Created simple GUI for export pdf			Michael		0.5	
4.2.3	Implemented add page button			Michael		0.5	
4.2.4	Create reference for UI screens interactions with each others and	Create a hand drawn diagram of how one area of application will move to the next, attempting to reuse parts where necessary https://github.com/MethodicalMadness/Inspect/blob/E1_Jasmine/Elaboration%20Documentation/Design%20References/LowFiLayoutReferences.pdf		Jasmine	2	1.5	
4.2.5	Create low fi sketches of screens for UI	Create small hand drawn layout ideas for required screens and more in depth screen interaction for the inspection side https://github.com/MethodicalMadness/Inspect/blob/E1_Jasmine/Elaboration%20Documentation/Design%20References/LowFiLayoutReferences.pdf		Jasmine	1.5	1	

4.2.6	Research how layouts work within android studio	Looking into how to make layouts flexible for different resolutions		Jasmine	1	1	
4.2.7	Adjust layout for template editor	Make it look more visually appealing https://github.com/Methodical Madness/Inspect/commit/82ee2bfb0bf3e929d47e230d7223ddea83012a9c		Jasmine	2	1	
4.2.7.1	Redo layout for template editor	Layouts used are linear layouts, causes issues when converted to constraint layouts so it will work on different devices https://github.com/Methodical Madness/Inspect/commit/82ee2bfb0bf3e929d47e230d7223ddea83012a9c	In Progress	Jasmine	2	2	
4.3	Save state	A save state object for the modified template and functionality to save.		Elias	4		
4.4	Load State	Functionality to load a saved state.		Michael	4		
5.0	**Unit Testing**	Ensure methods within classes give expected output and meet user specifications.	Incomplete				
5.1	Finote Integration	Integrate Finote with project.		Conrad Michael Elias		2.5 4 4.5	
5.2	Perform Unit Testing for Conversion Manager			Michael	4		
5.3	Perform Unit Testing for Template			Elias	4		
5.4	Perform Unit Testing for Template Editor			Conrad Jasmine	4 4		
5.5	Perform Unit Testing for Log Manager			Elias	4		
6.0	**Integration Testing**	Ensure that two modules behave and	Incomplete				

		function as expected after integration.					
6.1	Perform Integration Testing between Template, Log Manager, and Template Editor			Jasmine Conrad Elias	4 4 4		
6.2	Perform Integration Testing between Template Editor, Log Manager, and Conversion Manager			Michael Jasmine Conrad	4 4 4		
6.3	Perform Integration Testing between Template, Log Manager, and Conversion Manager			Michael Elias	4 4		
7.0	**Project Management**	Individual tasks assigned, iteration plan, trello, team meetings	Complete	Michael Jasmine Conrad Elias	4 4 4 4		
7.1	Maintain Trello			Michael Jasmine Conrad Elias		1	
7.2	Team / Oversight meeting			Michael Jasmine Conrad Elias		3 3 3 3	
7.3	Complete Elaboration Iteration 1 plan.			Michael Jasmine Conrad Elias		2 2	
7.4	Create next Elaboration Iteration plan			TBA			
8.0	**Finalise all work items and upload to repo**	All work items finalized and upload to repo.	Complete	Michael Jasmine Conrad Elias	4 4 4 4		
8.1							
9.0	**Fix LCOM documents and upload to repo**	Fix LCOM documents and upload to repo before commencing the first Elaboration Iteration **Revised Architectural Notebook**		Michael Jasmine Conrad Elias			

		https://github.com/MethodicalMadness/Inspect/blob/master/Inception%20Documentation/Architectural%20Notebook.pdf **Revised Project Plan** https://github.com/MethodicalMadness/Inspect/blob/master/Inception%20Documentation/Project%20Plan.pdf						
9.1	Reviewed and updated Architectural Notebook				Elias		1	
9.2	Reviewed and updated Project Plan and Architectural Notebook				Michael		2	
10.0	**Blog**			Complete	Michael Jasmine Conrad Elias	1 1 1 1	1 1 1 1	

5. Issues

Issue	Status	Notes
Integrating Finote (bug tracking) caused an issue in gradle that took an unacceptable amount of time to resolve	Resolved	Gradle errors are not to be pushed to master branch in the future.
Researching features and their implementation is taking more time than expected	Ongoing	Where possible future iterations need to take research into account for time projections.

6. Assessment

Assessment target	Complete all Objectives by end of iteration

Assessment date	Apr 28
Participants	All
Project status	Green

· Assessment against objectives

We managed to meet objectives 1-3 and most of 4. Objectives 5-8 were not met and will be carried over into the next elaboration iteration.

· Work Items: Planned compared to actually completed

Documentation from the previous iteration plan was finalised. Class skeletons with accompanying methods based on the initial domain model were created in Android Studio and uploaded to version control. Classes Log Manager, App, View Print Adapter, Conversion Manager, and a majority of Template and Template Editor were implemented (the latter two of which still need to be finalised) and uploaded to version control. Unit and Integration testing between classes did not occur.

· Assessment against Evaluation Criteria Test results

All completed work items were evaluated to the teams standards after all members reviewed and signed off on quality.

· Other concerns and deviations

Unfinished work items will be carried over into the next elaboration iteration plan.