

# COMP702 | Digital Twin

## Work Logbook

- Joshua Ladowsky

## Contents

Logs.....	1
Week 1   2 hour(s).....	1
Entry # 001   Workshop 1   28/02/2023 2pm-12pm - 2 Hour(s) .....	1
Week 2   8.66 hour(s).....	1
Entry # 002   Kick-off Meeting (Team)   06/03/2023 6pm-8pm - 2 Hour(s).....	1
Entry # 003   Kick-off Meeting (Mentor)   07/03/2023 11am-12pm - 1 Hour(s).....	1
Entry # 004   Document Organising   7/03/2023 2:30pm-2:40pm - 1 Hour(s) .....	1
Entry # 005   Workshop 2   7/03/2023 2pm-4pm - 2 Hour(s) .....	1
Entry # 006   Personal Work   11/03/2023 12pm - 3pm - 3 Hour(s).....	1
Entry # 007   Personal Work   11/03/2023 4pm-4:30pm - 0.5 Hour(s) .....	2
Week 3   12.5 hour(s).....	2
Entry # 008   Mentor meeting   14/03/2023 10am-11am - 1 Hour(s).....	2
Entry # 009   Team meeting   14/03/2023 11am-1am - 2 Hour(s) .....	2
Entry # 010   Workshop 3   14/03/2023 2pm-4pm - 2 Hour(s) .....	3
Entry # 011   Client Meeting   16/03/2023 1pm-2pm - 1 Hour(s).....	3
Entry # 012   Team Meeting   18/03/2023 9am-11am - 2 Hour(s) .....	4
Entry # 013   Personal Work   19/03/2023 8am-1pm - 2 Hour(s) .....	4
Week 4   15.75 Hour(s).....	4
Entry # 014   Personal Work   20/03/2023 2:30-3:30 - 1 Hour(s) .....	4
Entry # 015   Mentor Meeting   21/03/2023 9:30am-10am - 0.5 Hour(s).....	5
Entry # 016   Team Meeting   21/03/2023 10am-12pm - 2 Hour(s).....	5
Entry # 017   Workshop 4   21/03/2023 2pm-4pm - 2 Hour(s) .....	5
Entry # 018   Personal Work   23/03/2023 3pm-4pm - 1 Hour(s) .....	5
Entry # 019   Personal Work   23/03/2023 5pm-6:30pm - 1.5 Hour(s) .....	5
Entry # 020   Team Meeting   24/03/2023 9am-12pm - 3 Hour(s). <b>Error! Bookmark not defined.</b>	
Entry # 021   Team Meeting   25/03/2023 9am-10am - 1 Hour(s).....	6
Entry # 022   Team Meeting   25/03/2023 11:30am-11:45am - 0.25 Hour(s) .....	6
Entry # 023   Personal Work   26/03/2023 9am-11am - 2 Hour(s).....	6
Entry # 024   Personal Work   26/03/2023 2pm-5:30pm - 1.5 Hour(s) .....	6
Week 5   14.5 hour(s).....	6
Entry # 025   Mentor Meeting   28/03/2023 10am-11am - 1 Hour(s).....	6
Entry # 026   Team Meeting   28/03/2023 11-12 - 1 Hour(s).....	6
Entry # 027   Personal Work   28/03/2023 1pm-2pm - 1 Hour(s) .....	6

Entry # 028   Workshop 5   28/03/2023 2pm-3pm - 1 Hour(s) .....	7
Entry # 029   Personal Work   28/03/2023 4pm-4:30pm - 0.5 Hour(s) .....	7
Entry # 030   Personal Work   29/03/2023 3:30pm-4:30pm - 1 Hour(s) .....	7
Entry # 031   Personal Work   29/03/2023 5pm-8pm - 2 Hour(s) .....	8
Entry # 032   Team Meeting   30/03/2023 3:30pm-5pm - 1.5 Hour(s) .....	8
Entry # 033   Personal Work   30/03/2023 5pm-6:30pm - 1.5 Hour(s) .....	8
Entry # 034   Personal Work   30/03/2023 7pm-7:30pm - 0.5 Hour(s) .....	9
Entry # 035   Team Meeting   30/03/2023 7:30-8pm - 1.5 Hour(s) .....	9
Entry # 036   Team Meeting   01/04/2023 9am-11am - 2 Hour(s) .....	9
Week 6   7.5 hour(s) .....	9
Entry # 037   Mentor Meeting   04/04/2023 10am-11pm - 1 Hour(s) .....	9
Entry # 038   Personal Work   04/04/2023 11pm-12pm - 1 Hour(s) .....	9
Entry # 039   Personal Work   04/04/2023 1pm-2pm - 1 Hour(s) .....	9
Entry # 040   Project Proposal   04/04/2023 2:15pm-3:15pm - 1 Hour(s) .....	9
Entry # 041   Team Meeting   08/04/2023 9:30am-12pm - 2.5 Hour(s) .....	9
Entry # 042   Personal Work   11/04/2023 12pm-1pm - 1 Hour(s) .....	10
Week 7   11.5 hour(s) .....	11
Entry # 043   Team Meeting   11/04/2023 2pm-4pm - 2 Hour(s) .....	11
Entry # 044   Personal Work   12/04/2023 2pm-5pm - 3 Hour(s) .....	11
Entry # 045   Personal Work   13/04/2023 1pm-3pm - 2 Hour(s) .....	11
Entry # 046   Mentor Meeting   14/04/2023 3:30pm-4pm - 0.5 Hour(s) .....	11
Entry # 047   Personal Work   15/04/2023 10am-11:30am - 1.5 Hour(s) .....	11
Entry # 048   Personal Work   15/04/2023 12pm-12:30pm - 0.5 Hour(s) .....	12
Entry # 049   Personal Work   16/04/2023 1pm-3pm - 2 Hour(s) .....	12
Week 8   11 hour(s) .....	12
Entry # 050   Personal Work   17/04/2023 3:30pm-5pm - 1.5 Hour(s) .....	12
Entry # 051   Personal Work   18/04/2023 3pm-5pm - 2 Hour(s) .....	13
Entry # 052   Personal Work   20/04/2023 2pm-3pm - 1 Hour(s) .....	13
Entry # 053   Personal Work   21/04/2023 12:30pm-2pm - 1.5 Hour(s) .....	13
Entry # 054   Mentor Meeting   21/04/2023 3:30pm-4pm - 0.5 Hour(s) .....	14
Entry # 055   Team Meeting   22/04/2023 9:30am-11:30am - 2 Hour(s) .....	14
Entry # 056   Personal Work   23/04/2023 1:30pm-4pm - 2.5 Hour(s) .....	14
Week 9   5 hour(s) .....	14
Entry # 057   Team Meeting   29/04/2023 9:30am-12:30pm - 3 Hour(s) .....	14
Entry # 058   Personal Work   30/04/2023 12pm-2pm - 2 Hour(s) .....	15
Week 10   5 hour(s) .....	15

Entry # 059   Mentor Meeting   02/05/2023 10:30am-11am - 0.5 Hour(s).....	15
Entry # 060   Team Meeting   02/05/2023 11am-12pm - 1 Hour(s).....	15
Entry # 061   Team Meeting   06/05/2023 9:30am-11am - 1.5 Hour(s) .....	15
Entry # 062   Personal Work   04/05/2023 2pm-4pm - 2 Hour(s) .....	15
Week 11   6.5 hour(s).....	15
Entry # 063   Team Meeting prep   09/05/2023 9:30am-10am - 0.5 Hour(s) .....	15
Entry # 064   Mentor Meeting   09/05/2023 10am-11am - 1 Hour(s).....	15
Entry # 065   Team meeting   09/05/2023 11am-12pm - 1 Hour(s) .....	15
Entry # 066   Personal Work   12/04/2023 3pm-4:30pm - 1.5 Hour(s) .....	15
Entry # 067   Team Meeting   13/05/2023 9:30am-12pm - 2.5 Hour(s).....	16
Week 12   14 hour(s).....	16
Entry # 068   Personal Work   15/05/2023 3pm-5pm - 2 Hour(s) .....	16
Entry # 069   Mentor Meeting   16/05/2023 10am-11am - 1 Hour(s).....	16
Entry # 070   Team Meeting   16/05/2023 11am-12pm - 1 Hour(s).....	16
Entry # 071   Personal Work   16/05/2023 12:30pm-3pm - 2.5 Hour(s) .....	16
Entry # 072   Personal Work   19/05/2023 5pm-9:30pm - 4.5 Hour(s) .....	18
Entry # 073   Team Meeting   20/05/2023 9:30am-12pm - 2.5 Hour(s).....	19
Entry # 074   Personal Work   20/05/2023 1pm-1:30pm - 0.5 Hour(s) .....	19
Week 13   11.5 hour(s).....	20
Entry # 075   Team Meeting   23/05/2023 9:30am-12:30pm - 3 Hour(s).....	20
Entry # 076   Mentor Meeting   23/05/2023 2:00pm- 2:30pm - 1 Hour(s) .....	20
Entry # 077   Personal Work   23/05/2023 3:pm-6pm - 3 Hour(s) .....	20
Entry # 078   Personal Work   24/05/2023 3pm-4pm - 1 Hour(s) .....	20
Entry # 079   Personal Work   25/05/2023 4pm-6pm - 2 Hour(s) .....	21
Entry # 080   Personal Work   25/05/2023 6:30pm-8pm - 1.5 Hour(s) .....	21

## Logs

### Week 1 | 2 hour(s)

Entry # 001 | Workshop 1 | 28/02/2023 2pm-12pm- 2 Hour(s)

initial workshop for R&D introducing the paper guidelines and what to expect.

Currently groups haven't been assigned so work is delayed

### Week 2 | 8.66 hour(s)

Entry # 002 | Kick-off Meeting (Team) | 06/03/2023 6pm-8pm- 2 Hour(s)

Meeting with Harshil, Jane, Myles, and Yeran regarding teamwork, experience, and choosing a team lead.

I drew the short straw and was assigned the group lead.

Entry # 003 | Kick-off Meeting (Mentor) | 07/03/2023 11am-12pm- 1 Hour(s)

initial team meeting with Matthew regarding expectations, further fleshing out team roles with a client facing lead and team facing lead. Discussed team outcomes and what we should immediately focus on, that being the project proposal

I was assigned the Team facing lead as I had been assigned in the previous meeting while myles was assigned the client facing lead.

Entry # 004 | Document Organising | 7/03/2023 2:30pm-2:40pm- 1 Hour(s)

Working on collating notes and setting up work logbook along with the Trello for working on systems and setting up documentation guidelines for further notes that will be shared

Entry # 005 | Workshop 2 | 7/03/2023 2pm-4pm- 2 Hour(s)

Workshop on writing a proposal, prep for interviews and the structure of the portfolio

Entry # 006 | Personal Work | 11/03/2023 12pm- 3pm- 3 Hour(s)

Researching Factory IO, and the PLC to find how we can mimic the system to properly simulate and easily integrate the system into a factory system after switching from Factory IO.

This involved going through factory IO documentation, documentation for the Schneider Modicon M221 - tm221ce16r logic controller, and investigating the viability of already existing systems.

Through this research, I found while Factory IO does support Schneider's "EcoStruxure Control Expert" this dev suit for Schneider PLC's does not support the M221 model. This means we will need to utilise the embedded input/Output configurations available through the system or utilise an expansion module

Entry # 007 | Personal Work | 11/03/2023 4pm-4:30pm- 0.5 Hour(s)

Using information from initial fact finding, I developed some questions to ask our client during our initial client meeting. This took longer than I expected as we had previously been informed that our client does not have a technical background and will not be able to answer questions about technical specs

Week 3 | 12.5 hour(s)

Entry # 008 | Mentor meeting | 14/03/2023 10am-11am- 1 Hour(s)

Things we can do without client

- Team contract
- Project charter
- Stakeholder register
- Stakeholder management register
- Personality tests
- Communication plan

Proposal template

Only proposal needs version control

Ask tommy whether we need to have version control

After meeting create UI prototype of the interface

We only have to simulate the conveyor belt, the machines don't have to be recreated with detail

Purpose of the project is to create an interface that controls machines

Add color to skill matrix SDLC- use any agile approach

Our stakeholders Us Matthew Client Ramesh/Jacqui/Tony

Current issues:

- We can't speak mandarin Matthew will be translating for us
- We can send a simple clarification email afterwards
- Our timetables are bad Meeting during the weekend

To do:

- Project proposal template Add color to skill matrix
- Decide on SDLC Set project budget
- Finish all the plans that don't require the client

Entry # 009 | Team meeting | 14/03/2023 11am-1am- 2 Hour(s)

Started working on what was discussed during the meeting with matthew.

Filled out the skills matrix as well as started looking into factory IO

Skill expertise	skill level
Online Servers	2
Server Administration	1
PLC	2
Factory I/O	3
NoSQL	1
SQL	2
Online Database	1
C#	5
Git	4
HTML/CSS	3
IDEs	3
Java	2
NodeRed/SCADA	1
Visual Studio	4
Vs Code	5
Adobe Illustrator	3
UI Design	1
UX Design	1
Agile Methodology Knowledge	3
Client Management	2
Github	3
Teams	3
Trello	4
QA Tools	4
JavaScript	2
Node.js	2
PHP	2
React	1
Web APIs	2

Figure 1 Skill matrix input of my values

Entry # 010 | Workshop 3 | 14/03/2023 2pm-4pm- 2 Hour(s)

Talks on Project Methodology and how to pick on

Touches on the proposal and what content is to be submitted.

The work breakdown structure, used to break down the overall project and how it would review the process.

Week 3 critical tasks:

1. Client & mentor meetings
2. Continue fact finding for the project
3. List and prepare the plans which will be part of the proposal
4. Start getting feedback on some of plans if first draft is done
5. Start research on your PM methodology

Entry # 011 | Client Meeting | 16/03/2023 1pm-2pm- 1 Hour(s)

Client meeting, went to the Jadcup warehouse, discussed content with the client and viewed the environment that the system would be used in. took many photos of the current system, some of which are below, more are in the portfolio.



After meeting we decided that the minimum viable product would to read from a plc via a web interface.

We will create UI based of the images we took so that we can develop properly

Entry # 012 | Team Meeting | 18/03/2023 9am-11am- 2 Hour(s)

Discussed the WBS, determined that it will be more work than originally expected to fit Agile

Jane wrote up a proposal template, we decided to use that after the documentation is out of the way

Com plan needs more input on how to communicate with others

Scope might be over written

We started delegating team responsibilities, assigning a lead and another person to each role.

Briefly talked on tech stack, I touched on the documentation for the PLC that is used at Jadcup and talked about how we use the same protocols with FactoryIO

Entry # 013 | Personal Work | 19/03/2023 8am-1pm- 2 Hour(s)

Started writing the QA Plan, as well as finding documentation on the topic

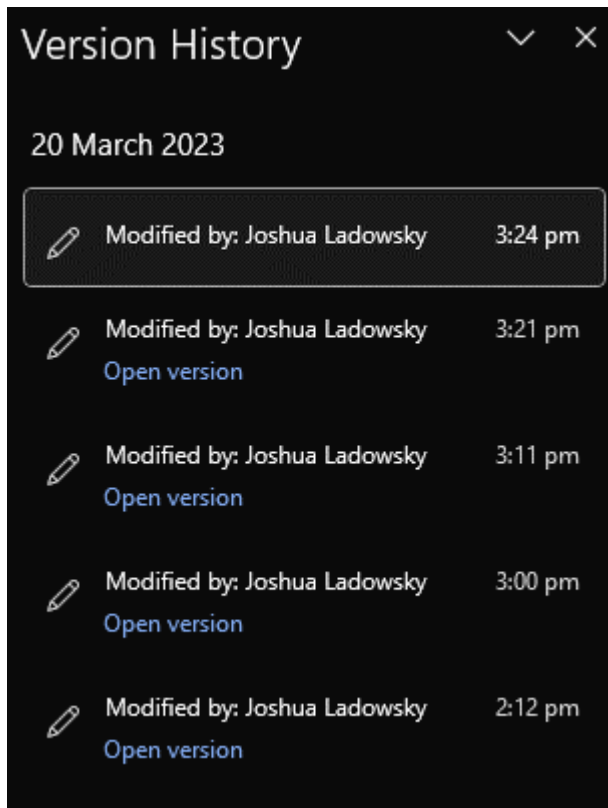
<https://theqalead.com/quality-engineering-planning-strategy/quality-assurance-plan/>

Week 4 | 15.75 Hour(s)

Entry # 014 | Personal Work | 20/03/2023 2:30-3:30- 1 Hour(s)

Worked on communication plan, we writing it from the basic form that was used in the ITPM design and making sure that the system works





Entry # 015 | Mentor Meeting | 21/03/2023 9:30am-10am- 0.5 Hour(s)

Showcase our work Matthew felt we were behind on our proposal, saying we should use information from our docs to build the proposal. We talked on the WBS reviewing the marking criteria of the project.

We agreed to give Matthew a draft by the 24<sup>th</sup> so we can get feedback for our Saturday meeting.

Entry # 016 | Team Meeting | 21/03/2023 10am-12pm- 2 Hour(s)

After the meeting with Matthew we divided the tasks between us and started writing user stories

Entry # 017 | Workshop 4 | 21/03/2023 2pm-4pm- 2 Hour(s)

Team culture/ and conflict

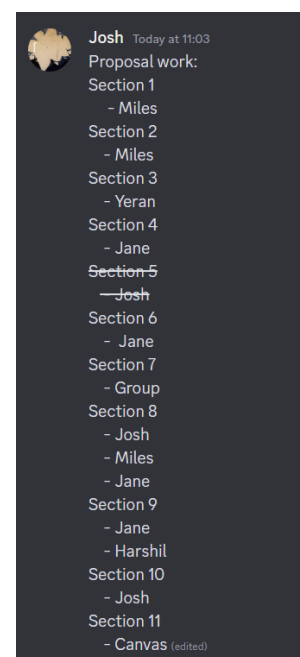
Forming, storming, norming, performing, adjourning

Entry # 018 | Personal Work | 23/03/2023 3pm-4pm- 1 Hour(s)

After Myles made a request to have ToR and Rational sections of the proposal, I went through and made some suggestions and comments to help adjust the flow of the section.

Entry # 019 | Personal Work | 23/03/2023 6pm-7:30pm- 1.5 Hour(s)

Developed the Cost estimate document based on the ITPM template that was provided to us. After did research on pricing for our documentation and added the documentation to the project proposal. I based our



estimated wages (that we don't get) on a junior dev as suggested.

WBS items	# Units/Hrs	Cost/Unit/Hr	Subtotals	WBS Level 1 Totals \$ of Total	% of Total
1. Project Management				\$9,699.00	73.25%
1.1 Senior Management	30	\$163.30	\$4,899.00		0.00%
1.2 Development Team	150	\$32.00	\$4,800.00		0.00%
3. Software				\$1,052.28	7.95%
3.1 Factory I/O	7,333.33	\$0.08	\$550.00		0.00%
3.2 DB/ Dashboard hosting (Estimated cost)	3,666.67	\$0.14	\$502.28		0.00%
4. Testing (10% of software)				\$105.23	0.79%
5. Training				\$178.00	1.34%
5.1 Trainee cost	2	\$25.00	\$50.00		0.00%
5.3 Project team members	4	\$32.00	\$128.00		0.00%
6. Reserves (20% of total estimates)				\$2,206.90	16.67%
Total project cost estimate				\$13,241.41	

Entry # 020 | Team Meeting | 25/03/2023 9am-10am- 1 Hour(s)

Reviewed the feedback that matthew gave us on the review, so that we could rework the proposal for our final submission unfortunately I had to leave early during this meeting as I had prior commitments that day.

Entry # 021 | Team Meeting | 25/03/2023 11:30am-11:45am- 0.25 Hour(s)

While I was out, I was asked to quickly join back in to the group call to be caught up on what had happened over the meeting. I was informed that I needed to adjust the QA plan to better fit Kanban.

Entry # 022 | Personal Work | 26/03/2023 9am-11am- 2 Hour(s)

Researching kanban and started applying it to the QA form.

<https://kanbanize.com/kanban-resources/case-studies/kanban-for-qa-teams>

<https://www.qa.com/about-qa/our-thinking/what-is-kanban/>

applying kanban strategies to the document I fleshed out several sections and outlined roles of the task.

Entry # 023 | Personal Work | 26/03/2023 2pm-3:30pm- 1.5 Hour(s)

I've updated the QA plan to talk about kanban and fleshed out team, environment, scope, schedule, and tools. the only things that I think are still weak from what Matthew said is client and data availability/quality.

Week 5 | 14.5 hour(s)

Entry # 024 | Mentor Meeting | 28/03/2023 10am-11am- 1 Hour(s)

Went through the proposal with Matthew and covered what needs to be changed. Matthew didn't have much to comment on my sections.

Entry # 025 | Team Meeting | 28/03/2023 11-12- 1 Hour(s)

One we had the list of items that required changes we divided the tasks among ourselves I helped out with some editing around the proposal. Around the end I decided to start working with InDesign to create a UI design for the proposal like Matthew had mentioned.

Entry # 026 | Personal Work | 28/03/2023 1pm-2pm- 1 Hour(s)

Got stuck into learning InDesign.

Watched these vids to learn the basics:

[https://www.youtube.com/watch?v=RXRT3dHu6\\_o](https://www.youtube.com/watch?v=RXRT3dHu6_o)

<https://www.youtube.com/watch?v=mVW8AF2TMnw>

and made a start on the first sketch



Entry # 027 | Workshop 5 | 28/03/2023 2pm-3pm- 1 Hour(s)

Workshop on Quality Management, Ramesh said that what was needed for project management was like a fraction of our work. So that felt bad.

Talked on the proposal, what we needed and what should be done for a good grade.

Entry # 028 | Personal Work | 28/03/2023 4pm-4:30pm- 0.5 Hour(s)

Jane sent a message to the group chat that said she had finished section 6 so I went through and made a few edits to the flow and phrasing.

Entry # 029 | Personal Work | 29/03/2023 3:30pm-4:30pm- 1 Hour(s)

Went through the proposal and made further edits and suggestions to some suggestions, there were several sections that had conflicting wordings on what our product will be, mentioning cloud servers and then local servers.

Moved the breakdown diagram to appendix for better flow

Reviewed the comments that were in the PMM section.

Helped Jane with work in Project Methodology

Entry # 030 | Personal Work | 29/03/2023 5pm-8pm- 2 Hour(s)

Did more drafting and work on the UI Sketch and finished the main dashboard design

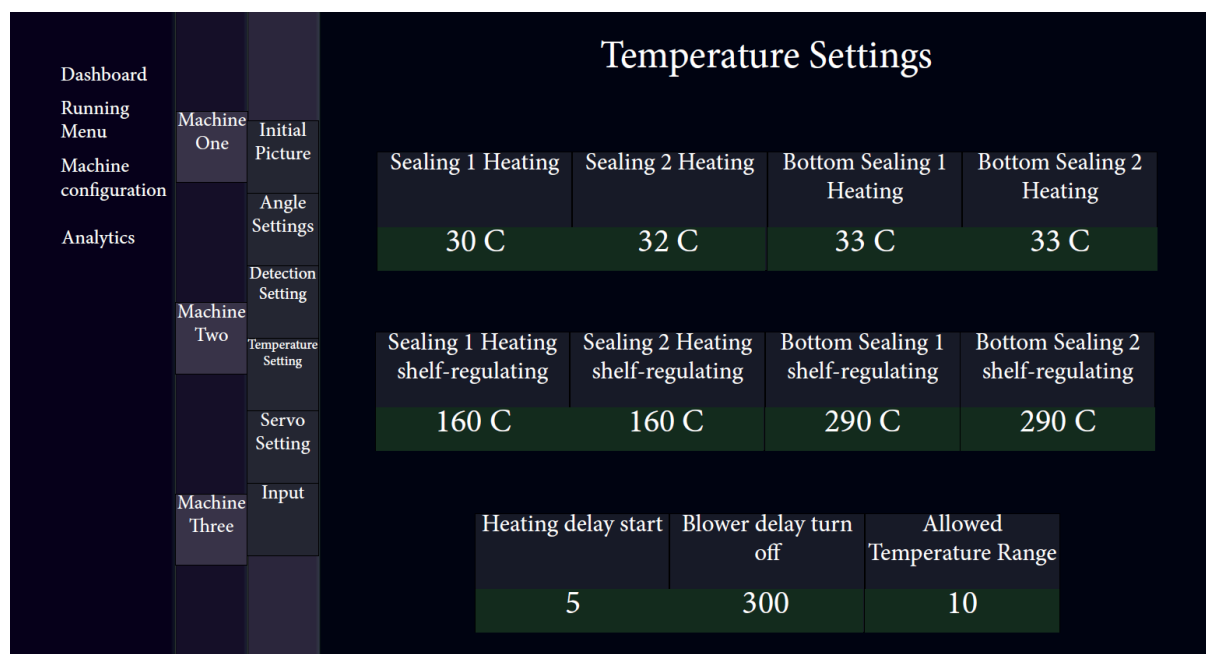


Entry # 031 | Team Meeting | 30/03/2023 3:30pm-5pm- 1.5 Hour(s)

Group meeting to work on the proposal. Yerans internet went down so he was only on briefly on mobile. Reviewing the proposal before we submitted

Entry # 032 | Personal Work | 30/03/2023 5pm-6:30pm- 1.5 Hour(s)

Continued work on the indesign ui sketches, I wanted to develop a image of the running menu



Entry # 033 | Personal Work | 30/03/2023 7pm-7:30pm- 0.5 Hour(s)

Went through and updated the references in the document. Several were formatted wrong for APA7. I found a custom apa7 reference sheet for word as word by default only had apa6. Hopefully another user doesn't override this by accident

Entry # 034 | Team Meeting | 30/03/2023 7:30-8pm- 1.5 Hour(s)

Meeting back up to finish of work Late night team meeting to polish the proposal before we submit the document. Went over all the documents and ensured they were to standards we were happy with. Yerans internet was still down

Entry # 035 | Team Meeting | 01/04/2023 9am-11am- 2 Hour(s)

Online team meeting, talked about the presentation. And started on creating the slides. Decided who was doing the slide among ourselves I am doing the Quality Assurance section.

We are worried by the lack of structure established for the presentation apart from the basic information given.

Week 6 | 7.5 hour(s)

Entry # 036 | Mentor Meeting | 04/04/2023 10am-11pm- 1 Hour(s)

Meeting before the presentation, we reviewed our slides and reformatted a few slides because they were too wordy on the actual presentation.

Entry # 037 | Personal Work | 04/04/2023 11pm-12pm- 1 Hour(s)

Working on the proposal presentation making sure I know what I am presenting and preparing for questions.

Entry # 038 | Personal Work | 04/04/2023 1pm-2pm- 1 Hour(s)

Working on printing the proposal and ensuring the printings were correct. Had a lot of issues with the library prints jamming. The document was very large and the print shop was closed. Had to run across campus to get clips for the proposal

Entry # 039 | Project Proposal | 04/04/2023 2:15pm-3:15pm- 1 Hour(s)

Presented the proposal.

Entry # 040 | Team Meeting | 08/04/2023 9:30am-12pm- 2.5 Hour(s)

Went over the feedback from the proposal so we could send the proposal to our client.

We divided some milestones and created goals for each iteration

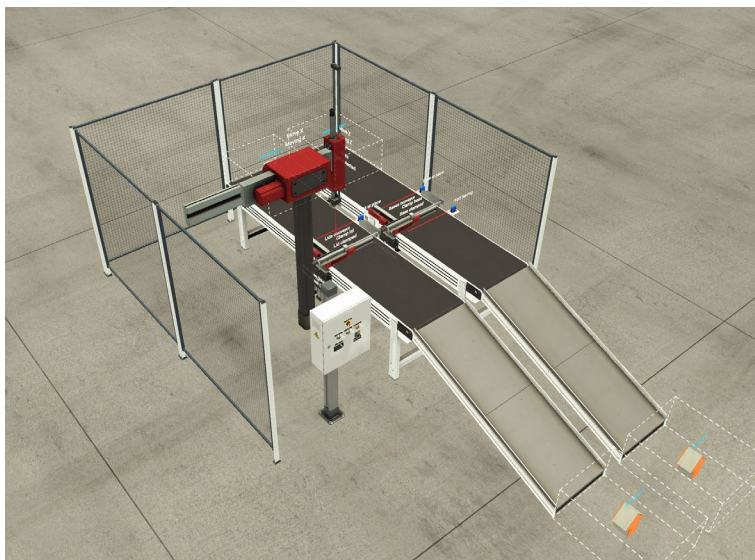
No.	Deliverable	Start Date	End Date	Duration (weeks)
1.	Factory I/O prototype	27/04/2023	10/05/2023	2
2.	Firebase project setup and design document	17/05/2023	30/05/2023	2
3.	Backend API	31/05/2023	13/06/2023	2
4.	OPC UA integration	14/06/2023	27/06/2023	2
5.	User authentication	28/06/2023	04/07/2023	1
6.	Basic frontend layout	05/07/2023	18/07/2023	2
7.	Data visualization	19/07/2023	25/07/2023	1
8.	User interaction	26/07/2023	01/08/2023	1
9.	Responsive design	02/08/2023	08/08/2023	1

No.	Deliverable	Start Date	End Date	Duration (weeks)
10.	Testing	09/08/2023	22/08/2023	2
11.	Continuous Integration and Deployment (CI/CD)	23/08/2023	29/08/2023	1
12.	Documentation	30/08/2023	05/09/2023	1
13.	Performance optimization	06/09/2023	12/09/2023	1
14.	Security	13/09/2023	19/09/2023	1
15.	User feedback and improvements	20/09/2023	03/10/2023	2

A key piece of feedback from tony was our lack of milestones will make our group unfocused during the development phase.

Entry # 041 | Personal Work | 11/04/2023 12pm-1pm- 1 Hour(s)

Worked on upskilling with factoryIO using the FactoryIO scenes I used the controllIO interface to make the assembler work in FactoryIO



I ran out of time getting the system to work and will need to continue when I get back to upskilling

## Week 7 | 11.5 hour(s)

## Entry # 042 | Team Meeting | 11/04/2023 2pm-4pm- 2 Hour(s)

Met up impromptu with the team, worked on the milestone report and ensured that the document was realistic to our goals. After this we sent the new proposal to matthew and tony

## Entry # 043 | Personal Work | 12/04/2023 2pm-5pm- 3 Hour(s)

Factory IO upskilling. Finished making the assembler scene work as well as started making my own scene based on a tutorial online

The tutorial I watch was for a colour sorter system

<https://www.youtube.com/watch?v= ZICFZ6Je90&t=6s>



After finishing this I feel I have a solid groundwork for future building of our factory IO warehouse. However I am concerned that the system may limit what we can do

## Entry # 044 | Personal Work | 13/04/2023 1pm-3pm- 2 Hour(s)

To start practice with node JS I returned to a project I started a while ago and never finished, it was a randomizer system that queried a users steam library and picked a random game they had never played. The project is in typescript but utilizes node.js systems for its system. I didn't manage to finish it in this session but will finish it in the next

## Entry # 045 | Mentor Meeting | 14/04/2023 3:30pm-4pm- 0.5 Hour(s)

Upskilling showcase

Meeting with matthew on teams. Unfortunately teams doesn't work on my pc due to the setup of my sound system. So I was unable to show off my upskilling

Myles showed his firebase

Yeran showed his factory io connecting to a server

## Entry # 046 | Personal Work | 15/04/2023 10am-11:30am- 1.5 Hour(s)

Finished my work on my old JS project to get it working the system now also queries the steam store to get details about the game such as description and categories



```
-----Details-----
Game: Creativerse
-----
Dev: (1) ['Playful Corp.'] | Publisher: (1) ['Playful Corp.']
-----Description-----
A sandbox adventure game as big as your imagination.
-----Catagories-----
- Single-player
- Multi-player
- PvP
- Online PvP
- LAN PvP
- Co-op
- Online Co-op
- LAN Co-op
- Steam Trading Cards
- Steam Workshop
-----
```

This upskilling will also assist us if in future should we determine that we need typescript in our development.

Because I had already started this it was a good jumping off point for node.js and js

Entry # 047 | Personal Work | 15/04/2023 12pm-12:30pm- 0.5 Hour(s)

Started learning about NodeRed watched this video:

<https://www.youtube.com/watch?v=pVb6Vq84ovg>

found the basics. The many prebuilt notes that already come with pre built along with how the system can be used

after that I started setting up node red on my pc

Entry # 048 | Personal Work | 16/04/2023 1pm-3pm- 2 Hour(s)

Today I went back to factory IO, I wanted to get a better understanding of how the APIs for connecting to an online system works. This mainly involved reading of factory IO Docs

<https://docs.factoryio.com/>

Week 8 | 11 hour(s)

Entry # 049 | Personal Work | 17/04/2023 3:30pm-5pm- 1.5 Hour(s)

For this session I felt that my skill in indesign could be better, I wasn't happy with the design of the UI sketches in the proposal and wanted to be able to design better ones in future. Do to this I went though and started with some basic UI/UX guides and then moved onto learning how to better improve my workflow in inDesign

<https://www.youtube.com/watch?v=ckZEgtQUxIU>

I started the crash course video, it is 6 hours and I skiped through a few different sections as some of them are about client work rather than design processes, this was my focus for this. I will most likely go back through a few sections and some of the missed sections next upskilling session

Key points form this session:



- Don't be afraid to be messy in sketching
- Sketches should be top of head designs, overthinking will make it worse
- Sketches are iterative
- When designing with software like indesign or figma there are lots of tricks to getting things to look correct, the system isn't perfect and the design doesn't have to be optimized

Entry # 050 | Personal Work | 18/04/2023 3pm-5pm- 2 Hour(s)

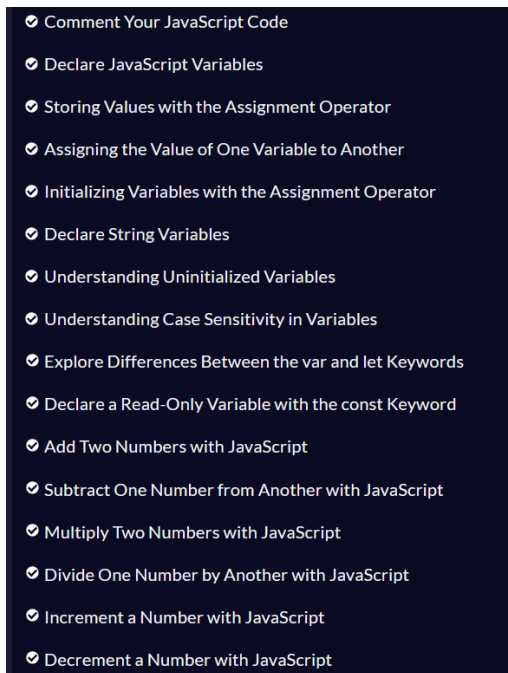
Moving on from the crash course the video linked to a design cheatsheet that I wanted to go through and better understand

<https://zerotomastery.io/cheatsheets/ui-ux-design-cheat-sheet/>

One of the key sections I went through was the wireframes system. Essentially wireframes proves a blueprint to designs and help you understand how a user will look at a project even if you are missing key assets are designs, they are faster than a full mock-up and can help identify issues not found during sketching.

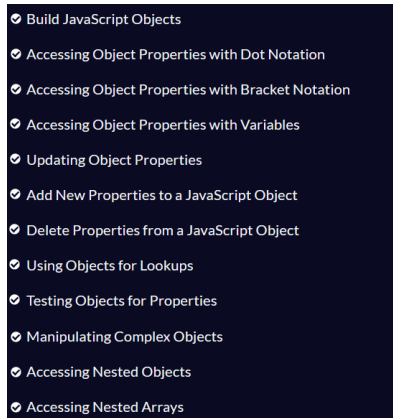
Entry # 051 | Personal Work | 20/04/2023 2pm-3pm- 1 Hour(s)

Having a better understanding of ui/ux I wanted to go back to js and work on my skills. To do this I undertook the freecodecamp javascript course the start was easy, will work on more to get a better understanding of JS



Entry # 052 | Personal Work | 21/04/2023 12:30pm-2pm- 1.5 Hour(s)

Continued with freecodecamp went through JS objects and how to manipulate them.



### Entry # 053 | Mentor Meeting | 21/04/2023 3:30pm-4pm- 0.5 Hour(s)

Online meeting with Matthew, he wanted to see more progress in the ui

Matthew suggested the middleware talks to firebase directly to listen for changes instead of the website accessing the middleware directly.

### Entry # 054 | Team Meeting | 22/04/2023 9:30am-11:30am- 2 Hour(s)

Team meeting, we went over the firebase details, the suggestion the the website changes the firebase was implemented. Talked about plans for making the model for factory IO.

The website also now can read from Firebase

### Entry # 055 | Personal Work | 23/04/2023 1:30pm-4pm- 2.5 Hour(s)

After the team meeting I started looking into the factory IO more to make sure that I was ready to design and build a model. The system will likely not be 1-1 due to the limitations but I wanted to make sure that we can read and write to the system.

Looking into the various parts we could use I found the tank part. Its very strange, there is nothing that can connect to it but it can be controlled to fill and drain even though there are no pipe object or water sources. It feels like a forgotten part that was supposed to be for a bigger update. But for our system it may work will, filling and draining the tank works with float variables for flow rate so it will be a good variable that we can change

### Week 9 | 5 hour(s)

### Entry # 056 | Team Meeting | 29/04/2023 9:30am-12:30pm- 3 Hour(s)

Tony sent myles a list of changes he wanted made to the proposal so we went over what he wanted done. We ended up deciding that the changes can be made later so they are done for the mid semester review.

Currently we are focusing on development.

Started adding cards in replacement of a traditional swimlanes method due to limitations in Trello.

Myles mentioned concerns about lack of meetings and the quality of our weekend meetings. This will continue to be an issue because our schedules are bad.

Entry # 057 | Personal Work | 30/04/2023 12pm-2pm- 2 Hour(s)

I spent time going through each of the milestones and developing userstories based on them. This took more time than I expected due to some milestones having less tangible effects for users.

Week 10 | 5 hour(s)

Entry # 058 | Mentor Meeting | 02/05/2023 10:30am-11am- 0.5 Hour(s)

Mentor meetings, we went through the Trello with matthew and he found a extension for Trello that gives us kanban swimlanes in our Trello. We received the new FactoryIO floating license. Matthew agreed with our decision that changes to the proposal don't need to be done now, just by the mid term report.

Matthew wants a ui design for the website soon so that the client can be done.

Entry # 059 | Team Meeting | 02/05/2023 11am-12pm- 1 Hour(s)

After the mentor meeting we did group work. I helped jane setup node js and get her github working. Shorter meeting today but it marks the start of development

Entry # 060 | Team Meeting | 06/05/2023 9:30am-11am- 1.5 Hour(s)

Talked on the status report and requirements for it. Made changes for the proposal before the mid-term review.

Entry # 061 | Personal Work | 04/05/2023 2pm-4pm- 2 Hour(s)

Started writing the changes requested by tony for the Quality Assurance plan. Created the first draft of the Definition of done in the report, I think I will need to write a definition of ready also to ensure our bases are covered

Week 11 | 6.5 hour(s)

Entry # 062 | Team Meeting prep | 09/05/2023 9:30am-10am- 0.5 Hour(s)

Prep for the mentor meeting talked about what we wanted to discuss with matthew.

We don't know what units some of the machines values are

The factory IO license isn't right, because it's the starter license we cant use it for the project, we need the ultimate version.

How close does our sim need to be to the factory

Entry # 063 | Mentor Meeting | 09/05/2023 10am-11am- 1 Hour(s)

Machine values should be unitless if we don't know

Matthew will look into getting a new license

Factory doesn't need to be 1-1 just make sure it can read and write

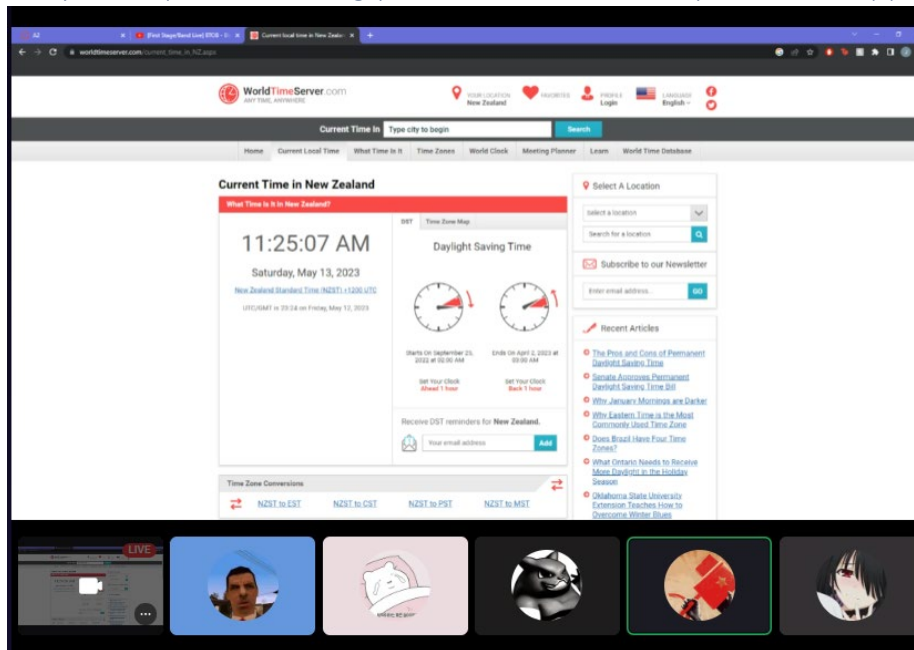
Entry # 064 | Team meeting | 09/05/2023 11am-12pm- 1 Hour(s)

Continued the QA work and discussed how we would work on what sections, we broke for lunch but then due to the flood warnings our groups split up and went home for safety.

Entry # 065 | Personal Work | 12/04/2023 3pm-4:30pm- 1.5 Hour(s)

Finished the DoD and DoR for the Quality management sections. Had to rewrite some stuff

Entry # 066 | Team Meeting | 13/05/2023 9:30am-12pm- 2.5 Hour(s)



Made changes to the proposal and confirmed the changes we already had made. Also filled in the meeting doc for the status report by going through work log books and making sure everyone is correct

Week 12 | 14 hour(s)

Entry # 067 | Personal Work | 15/05/2023 3pm-5pm- 2 Hour(s)

Started working on the factory IO blackbox system. Going through and picking sensors that will give a variety of values for our system.

The light array was an interesting sensor, it is 8 light beams that each represent a bit so when you turn that bit into an int you can get interesting results.

Currently I have a rudimentary system but not many moving parts will need to finish that off when I have time.

Entry # 068 | Mentor Meeting | 16/05/2023 10am-11am- 1 Hour(s)

Confirmed with matthew the proposal changes, asked about the stakeholder table, talked about how tony is ghosting us. Reviewed the factory IO model, for the status report we need to talk about kanban more, report on upskilling.

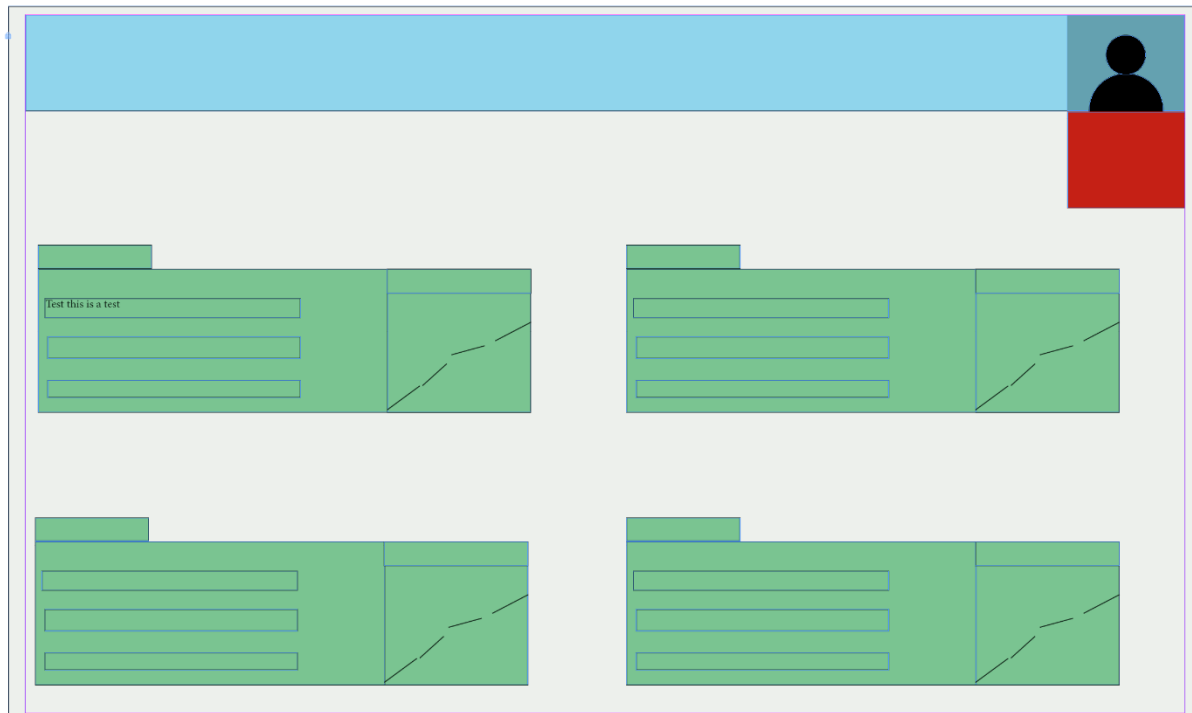
Matthew pointed out we are starting to fall behind on the UI design milestone.

Entry # 069 | Team Meeting | 16/05/2023 11am-12pm- 1 Hour(s)

After the meeting we went and did group work, following matthew advice we add more about kanban to the proposal and started on UI drafts. I helped the front end with their mockups and created designs in indesign, then we broke for lunch

Entry # 070 | Personal Work | 16/05/2023 12:30pm-3pm- 2.5 Hour(s)

After lunch I got back into designing the drafts I did this during the lecture also

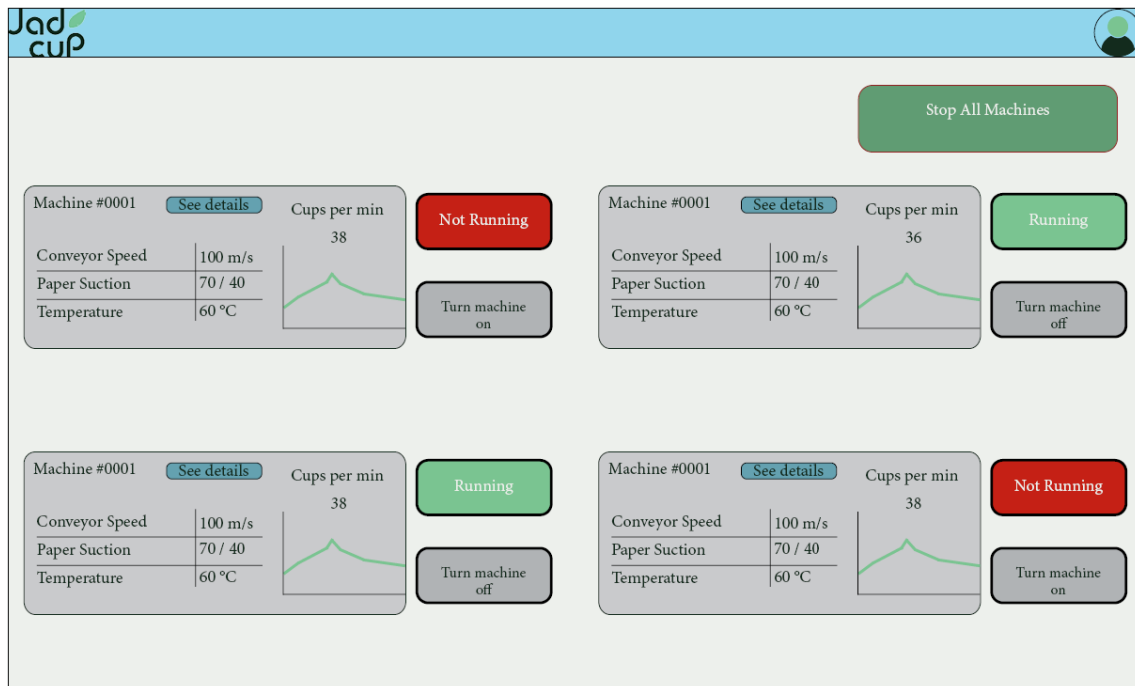




After that I have sent me more drafts that I will start working on later.

Entry # 071 | Personal Work | 19/05/2023 5pm-9:30pm- 4.5 Hour(s)

Doing more draft work, creating the final versions that can be sent to our stakeholder for approval.



#### Entry # 072 | Team Meeting | 20/05/2023 9:30am-12pm- 2.5 Hour(s)

Team worked on status report covering what we need. References the powerpoint slides to guide us on what we need to do. We finished a few points quickly since they already existed the proposal. The team is considered by what is required, things like page count.

#### Entry # 073 | Personal Work | 20/05/2023 1pm-1:30pm- 0.5 Hour(s)

Finalising the factory io blackbox with moving parts that trigger the sensor

## Week 13 | 11.5 hour(s)

Entry # 074 | Team Meeting | 23/05/2023 9:30am-12:30pm- 3 Hour(s)

Our team meeting is before our mentor meeting here due to matthew having scheduling issues.

Worked on the status report.

Talked about iterations, on Tuesday we all should on the kanban board and make sure its up to date.

Entry # 075 | Mentor Meeting | 23/05/2023 2:00pm- 2:30pm- 1 Hour(s)

Need to make acceptance tests for all cards

Its better to user the user story format

Next week isn't great for matthew schedule wise so he will ask Ramesh if we can do week 14

Entry # 076 | Personal Work | 23/05/2023 3pm-6pm- 3 Hour(s)

Working on developing a bash script for creating an index. First version works well but creates everything in a single line. I think I will try and add some styling when I have time

**Photos of Jadcup:****Jane:**

[20230316\\_131045.jpg](#)  
[20230316\\_131108.jpg](#)  
[20230316\\_131113.jpg](#)  
[20230316\\_131116.jpg](#)  
[20230316\\_131121.jpg](#)  
[20230316\\_131244.jpg](#)  
[20230316\\_131324.jpg](#)  
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[20230316\\_131343.mp4](#)  
[20230316\\_131736.jpg](#)

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**Josh:**

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[20230316\\_131534.jpg](#)  
[20230316\\_131536.jpg](#)  
[20230316\\_131802.jpg](#)  
[20230316\\_131805.jpg](#)  
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[20230316\\_132029.jpg](#)  
[20230316\\_132039.jpg](#)  
[20230316\\_132042.jpg](#)

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**Yeran:**

[Specs.jpg](#)  
[Variables.jpg](#)

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**Proposal Documents:**

[Cost Estimation.xlsx](#)  
[Identified Technical Infrastructure.docx](#)  
[scope\\_statement.docx](#)  
[skill\\_matrix\\_v2.xlsx](#)  
[Training Plan.docx](#)  
[Upskilling Schedule.xlsx](#)

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[readme.txt](#)

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**02-Planning and Control:****Project Proposal Documents:**

[Change Management Plan.docx](#)  
[KanbanWBS.docx](#)  
[Milestone Report.docx](#)  
[readme.txt](#)

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**Project Proposal Versions:**

[Proposal v1.docx](#)  
[Proposal v2.0.docx](#)  
[Proposal v2.5.docx](#)  
[Proposal v3.0.docx](#)  
[Proposal v3.3.docx](#)  
[Proposal v4.docx](#)  
[readme.txt](#)

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Entry # 077 | Personal Work | 24/05/2023 3pm-4pm- 1 Hour(s)

Finished the bash script, adding styling so it looked nicer I couldn't get indenting to work so I had to go with lines



**01-Research and Upskilling:****Jadcup Documents:**

<a href="#">Jadcup Project Management Structure.docx</a>	<a href="#">Jadcup Requirements Document.docx</a>	<a href="#">JadcupStakeholderStrategy.docx</a>	<a href="#">meeting.docx</a>
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**Members:****Harshil:**[WorkLog Book.docx](#)**Jane:****Artefacts:**

<a href="#">database relationships.drawio</a>	<a href="#">UI Draft.pptx</a>	<a href="#">WBS.xlsx</a>
<a href="#">Gantt_chart.mpp</a>	<a href="#">Upskilling Schedule.mpp</a>	<a href="#">website architecture.drawio</a>

[Worklog books2.docx](#)**Joshua:**

<a href="#">FactoryIO BlackBox front.png</a>	<a href="#">FactoryIO BlackBox side 2.png</a>	<a href="#">RnD sensor machine.factoryio</a>
<a href="#">FactoryIO BlackBox side 1.png</a>	<a href="#">FactoryIO BlackBox top.png</a>	<a href="#">upskilling log.docx</a>

**Myles:**

<a href="#">ComponentDiagram.png</a>	<a href="#">Logbook.docx</a>
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**Yeran:**

<a href="#">Elevator (Advanced).factoryio</a>	<a href="#">RnD Logging.docx</a>
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**Photos of Jadcup:****Jane:**

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<a href="#">20230316_131108.jpg</a>	<a href="#">20230316_131121.jpg</a>	<a href="#">20230316_131327.jpg</a>	
<a href="#">20230316_131113.jpg</a>	<a href="#">20230316_131244.jpg</a>	<a href="#">20230316_131343.mpp</a>	

**Josh:**

<a href="#">20230316_131255.jpg</a>	<a href="#">20230316_131531.jpg</a>	<a href="#">20230316_131932.jpg</a>	<a href="#">20230316_132025.jpg</a>
<a href="#">20230316_131257.jpg</a>	<a href="#">20230316_131534.jpg</a>	<a href="#">20230316_131936.jpg</a>	<a href="#">20230316_132027.jpg</a>
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<a href="#">20230316_131528.jpg</a>	<a href="#">20230316_131805.jpg</a>	<a href="#">20230316_132023.jpg</a>	<a href="#">20230316_132042.jpg</a>

**Yeran:**

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<a href="#">Identified Technical</a>	<a href="#">scope_statement.docx</a>	<a href="#">Training Plan.docx</a>	
<a href="#">readme.txt</a>			

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<a href="#">Proposal v2.0.docx</a>	<a href="#">Proposal v3.0.docx</a>	<a href="#">Proposal v4.docx</a>	

Entry # 078 | Personal Work | 25/05/2023 4pm-6pm- 2 Hour(s)

Worked on detailing log entries I was missing a few. Also adding screenshots where I can

Entry # 079 | Personal Work | 25/05/2023 6:30pm-8pm- 1.5 Hour(s)

More logbook work

Entry # 080 | Personal Work | 26/05/2023 5:30pm-6:30pm- 1 Hour(s)

Worked on status report, making layout uniform as well as reworking the meeting evidence section to be more readable.

Entry # 081 | Personal Work | 26/05/2023 7pm-9pm- 2 Hour(s)

Doing work logbook

Entry # 082 | team meeting | 27/05/2023 9:30am-12pm- 2.5 Hour(s)

Team meeting. Worked on status report, we discussed the issue of meetings and how we want to address it. Myles worries that if we don't give a concrete date for a make up meeting that we will be questioned on it. I think that due to the fact we don't know our schedule that we shouldn't give a date because that would be unrealistic. However it was argued that because we are using kanban and are a fluid team it would be easy to change the meeting time if we have to.

We also redesigned the iteration review, merging the milestone review into the document.