

R&D Work Hours

Task	Time (hours)
Week 1 (12 -18 July)	
Client Meeting	2
Upskilling on KiwiSaver	4
Attending R&D Lecture	2
Week 2 (19-25 July)	
Preparing agenda for client meeting with team	1
Client Meeting	2
Team meeting brainstorming potential objectives	2.5
Further research pre client meeting	1
Team meeting after client meeting	1
Missed R&D lecture, going over content	1.5
Week 3 (26 July - 1 August)	
Mentor meeting to discuss current state of project	2
Team meeting building KiwiSaver user journey	2
Individual upskilling on industry following previous meeting	2
Team meeting before client meeting	1
Client meeting	1.5
Meeting after client meeting	1
Attending R&D Lecture	2
Week 4 (2 - 8 August)	
Team meeting creating user journeys	2
Tidying meeting drawings to present	1
Refining notes based off previous meetings	2
Data meeting with Leeanna and Barry	1
Going over databases and content presented by Leeanna	2
Pre-client meeting	1
Client meeting	1.5
Missed R&D lecture, going over content	1.5
Week 5 (9-15 August)	
Team meeting about direction of project	1
Mentor meeting as above	1
Team meeting working on Sigma direction	2
Pre-client meeting	1
Client meeting	2
Mentor meeting going over initial Proposal	1
Individual work on Proposal	5
Week 6 (16-22 August)	
Pre-presentation Meeting	1
Proposal Presentation	1
Individual work tidying proposal	2

Task	Time (hours)
Work on Proposal Presentation	2
Post Presentation Meeting	2
Individual work on Proposal	2
Meeting to share progress on Proposal	2
Client Meeting	1.5
Mentor Meeting sharing proposal progress	1
Team meeting working together on Proposal	4
Team meeting working together on Proposal	2
Week 7 (23-29 August)	
Meeting with finappster Tau to learn their goal	1
Team meeting working on Wireframes	2
Client meeting	2
Individual work on Proposal	5
Mid-Sem Break Week 1 (30 August - 5 Sept)	
Team meeting to prepare for client meeting with user stories	2
Client meeting incl. user story creation	4
Individual work on Proposal	4
Mid-Sem Break Week 2 (6 - 12 Sept)	
Client Meeting	2
Team meeting working on Proposal	3
Individual work on Proposal	3
Formatting and Proof-Read of Proposal before final submission	2
Week 8 (13 Sept - 19 Sept)	
Missed team meeting - worked individually on setting up development environment	2
Subsequent meeting to figure out development env with team	2
Week 9 (20 - 26 Sept)	
Client meeting	2
Mentor meeting	2
Individual upskilling on React, Django and Postgres	7
Team Standup Meeting	1
Week 10 (27 Sept - 3 Oct)	
Continued upskilling	2
Ran into issues with backend, attempted to fix	3
Meeting with Ashley from <i>finappster Delta</i>	2
Week 11 (4 - 10 Oct)	
Individual development toward Sprint 1	3
Ran into more backend issues, attempted to fix again	1

Task	Time (hours)
Began preparing Mid-Project Review documentation once deliverables were pushed back to Sprint 2	2
Week 12 (11-17 Oct)	
Sprint Retrospective & review	4
Mentor meeting to discuss mid-project review	1
Individual work toward Mid-Project Review documentation	3
Week 13 (18 - 24 Oct)	
Mentor meeting going over Mid-Project Review	1
Team meeting to work together on Mid-Project Review	4
Group meetings working on Presentation	3
Break until day before first meeting of break (14/11)	
Prepare for first meeting over break	2
15/11	
Online meeting, discuss next plans and how to start development over the break	2
19/11	
Prepare for meeting with <i>finappster Tau</i> , try to prepare some questions / things to ask	1
20/11	
Online meeting with two members of <i>finappster Tau</i> . This raised a few questions for the team - the structure of their data was markedly different to what the team had	1
Post-meeting, took notes on points / issues to bring up with client	1
22/11	
Prepare for first client meeting of the break, with a focus on trying to establish what data we had and what we still needed to find	2
23/11	
Client meeting	
Meeting about Tau's work, trying to finalise specific implementation of data and it's format. At this point we have different ideas of what should go where.	1.5
Took notes on meeting with Leeanna, began trying to plan how to move forward	1
24/11 - 11/12	
Worked with the team to try to piece things together, arranged mentor meeting for 12/12 to ask for advice	4
12/12	
Mentor meeting going over implementation of Leeanna's data and how we should progress from here. We got feedback on the above notes here as well. At this point we're still confused, but it's becoming clear that we won't be able to use Tau's work and will need to create something from scratch	1

Task	Time (hours)
15/11	
Meeting with dev team to confirm direction moving forward.	1.5
At this point we took a break from working on <i>finappster</i> . I was very busy through here with work for Contact, and as such I had limited time free to work.	
However, over this break I researched recommendation algorithms. A lot of this time was spent focusing around AI implementations, as their power was stressed to us by Alan, but ultimately I decided to focus on more of an algorithmic approach as utilising an AI algorithm for recommendations would be far too slow.	15
As such, a lot of this research ended up being ultimately fruitless, at the same time as being invaluable, as this doesn't put the rest of the team in jeopardy of wasting time researching a bad solution. Now we just need to find a good algorithm...	
9/2	
First dev meeting of the year. In this session we discussed the research that had been done so far, as well as discussing implementation of Tau's work. We decided this should be a stretch goal, but I'm unsure of whether we should even look at this given what we already have to do. Time will tell.	1
10/2-13/2	
Further research around specific algorithm. Over this time I came up with the 'absolute difference' algorithm. I don't think it's perfect, or even that good, but if nobody else has come up with a better solution it will serve as a starting point for development, with the exact algorithm able to be replaced later with a better one if possible. This involves taking the absolute difference between a user's values and an investment and recommending based off the lowest values.	4
14/2	
Dev meeting, Chris and I came up with the same idea (haha). Again, it's a flawed solution but should serve as a starting point.	1
15/2	
Mentor meeting, Barry is supportive of the initial algorithm. He echoed my sentiment - it's something we can revisit when we find a better solution.	1
17/2	
Meeting to begin assigning Trello tasks for the next sprint. It's important to mention that at this point my role at Contact is wrapping up and as such I'm getting ready to move back to Auckland from Wellington. I don't expect to get as much done over this period as I would otherwise, but I plan to make up for this over the course of the semester.	1.5
18/2 - 28/2	
Over this time I tried to make a start on getting my head around the database structure, but I found it difficult to fit time around both finishing my role at Contact and preparing to move back to Auckland. I also completed the move at the end of March, just in time to be back for the start of the semester	5
1/3	
First meeting back on campus. As it turns out, most others didn't get much done over the break either. This was a little disappointing, but it should be fine. Looking forward, at this point it became clear that we needed a win before meeting Leeanna again. Progress has been slow, it was good to see the team again though!	3

Task	Time (hours)
2/3 - 7/3	
Began mapping things out in the database. At this point I'm still not sure why there are so many tables. I've begun looking into them and it's crazy how many of them are empty too. This goes against everything I've learned!!	5
8/3	
First client meeting of the semester + pre-meeting with dev team. We showed our current work, she was happy with what we had accomplished. Is is	3
At this point we discussed the idea of creating dummy data to test the algorithm and recommendations further, she didn't seem to like the idea of dummy data though. This is really frustrating, as it seems like a great way to conduct further testing but she just doesn't seem to get it.	
We also asked her to show us how to use Tau's work, as nobody in the team had been able to make it work. She couldn't do it, so something has broken (if it even worked in the first place). As such if we need to facilitate upload of client-provided data I think we should not use the <i>Tau</i> system, as I think that trying to fix that is just opening a can of worms...	
Trying to feel positive, but it feels like Leeanna's unhappy with what we're presenting.	
I took some notes after the meeting.	
10/3	
Meeting with dev team, discussing the tau db vs standalone app, real data vs dummy data. We should talk to Barry to get his opinion here.	2
Put some time into understanding the database structure present in the app. Discovered the Postgres command to create an automated ERD, and did this. Began establishing what tables were key in the system and what could be ignored.	4
11/3	
Mentor meeting discussing previous points. Barry has suggested implementing the data upload app rather than going with Tau's work as he will likely be the one maintaining it once we've left. This makes sense - we're happy with this result. We push on the concept of real enough data. This is a concept that we need the client to understand as her real data is insufficient. Our system won't be accurate with all the missing data, but addressing this will likely fall out of scope.	1
15/3	
Quick meeting with the next team, <i>finappster Zeta</i> . In this time, they introduced us to their expected project. We gave them some advice around interactions with the client and mentor.	1
On the same day, we had a client meeting. Here we presented our proposal to complete our own app rather than utilise what <i>Tau</i> made.	1
17/3	
Dev team meeting	1
Continued working on database structure - began creating template diagram for table and working on classifying tables	4
22/3	
Client meeting + notes, showed data upload app progress	1
24/3	
Created first template database document, refined structure significantly	4

Task	Time (hours)
25/3	
Dev team meeting, Chris presented calculation methods for SDG values	1
29/3	
Client meeting, showing progress on upload app and SDG to fund SDG conversion	1
30/3	
Dev team meeting, brainstorming how to calculate and interpret raw data	1
Individual research around the best way to do this, attempted to understand Leeanna's excel model with little success	2
2/4	
Mentor meeting, discussed scope of development, real enough data and began discussing portfolio	1
5/4	
Went over lecture content, took some notes as well	2.5
6/4	
Dev team meeting, focusing around the data. Raw data cannot be the only way - there must be a way that doesn't involve using the garbage excel sheet. Real data vs real enough - we must convince her to embrace real enough data. This also facilitates edge testing	2
8/4	
Mentor meeting, whiteboarding session around fund SDGs	1
11/4	
Dev team meeting, discussing how to explain raw data processing is a subpar solution	2
12/4	
Further work on Database Documentation.	6
Went over lecture content, took some notes as well	2.5
13/4	
Client meeting, attempting to confirm final deliverables. Struggled to reach a universal decision around fund SDG processing	1
3/5	
Went over lecture content, took some notes as well	2.5
4/5	
Dev team meeting, Chris and Jose met with Leeanna, cemented our final development scope (yay!). This allows the team to progress further with development again.	1
14/5	
Dev team meeting, discussing large scale uploading of data. Next exploring heroku deployment, ran into 30s issue. Team began investigating alternative solutions. I discovered the cause of the problem and then the team investigated the possibility of breaking the request into batches.	2

Task	Time (hours)
15/5 - 19/5	
Further work on Database Documentation, including creating a spreadsheet showing what tables meant what, and what were yet to be implemented.	20
17/5	
Went over lecture content, took notes	2.5
19/5	
Mentor meeting, discussing next team's work. Also discussed documentation and handover requirements. Met afterwards to discuss db documentation.	1.5
23/5 - 3/6	
I created the poster, including all text and diagrams present. Ripped structure from Delta poster, but created everything else	20
Also worked to finalise as much of the database documentation as possible. Generated an ERD showing what was covered overall, highlighting the gap between the existing system and the recommendation system. This is something to be linked in the future	15
24/5	
Attended lecture, took notes on final deliverables	2
26/5	
Met with Barry to discuss poster progress, get feedback and discuss DB documentation progress	2
1/6	
Met with the dev team to discuss portfolio work	1
Met with Barry again to discuss progres	2
10/6	
Worked on Reflective Report	6
11/6	
Further work on Reflective Report	4