

## **FIT3163/3164 – Data Science Project 1 – Assignment 1**

### **Journal Entries #2 – Weeks 6 to 12**

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**Workshop: Friday, 2pm – 4pm (Online)**

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## **Week 6**

### Tasks Undertaken

This week's tasks focused on us completing the case studies and submitting the best work we can give. During the workshop we briefly did the workshop materials, but for the most part we focused on clarifying our doubts especially on the requirements traceability matrix and asked our project supervisor for advice and recommendations. This took almost the whole of the workshop hour, leaving us unable to complete the workshop activities. My group also attended an extra consultation after the workshop, just to be sure of what we provided as our answers in our case studies were what was expected and that we, as a team understood the objectives of the case study.

### Critical Reflections

This week was also one of the toughest weeks for us as a team as we failed to understand what was required of us in the requirements traceability matrix. It was clear that our expectations and what the project supervisor expected of us were two different things. I also realized that our team had yet to put in the extra effort in understanding the core objectives of the project – i.e., we had only thought about building an extension of an R package used to detect the cancer, but we did not realize that we would also have to build a working website and use methodologies such as machine learning, image processing, artificial intelligence, etc. Added to this, we soon realized that our team had little to no experience in dealing with deep learning and that is something I would like to work on during the holidays. Though it was a tough week for us, I'm grateful that my team and I persevered through it and was able to reach a middle ground with our project supervisor. We continue to learn as a team, and are looking forward for our next assignment

### Assigned Roles/Tasks

I organized a zoom meeting for this week, which was fairly simple and easy as we had set Monday as our recurring meeting date. I was also tasked with proof-reading the case study, adding more in-text citations and justifications as well as provide more examples required in the scope statement and requirements traceability matrix.

### Accomplishments

This week our group completed all three of the case studies, and I also completed the last quiz. We, as a team were also able to gain more insight on what was expected of us in the project. The project structures and objectives were also becoming clear for me.

#### Next Week's Tasks/ Reflections

For next week, I would like to focus on clarifying my doubts for the project design assignment as I have yet to have a look at that. Also, I would like to know the details and expectations of us for our final submission, the Literature Review as the end of the semester is coming fast and we have yet to know the details of the assignment. My Team and I would definitely love to start working on these assignments as soon as possible

### **Week 7**

#### Tasks Undertaken

Our team did not organize a meeting this week, particularly because we had just finished submitting deliverables (case study and quiz), and I was chasing the deadline for my other units. We did however plan to have our regular meetings up and running next week as we want to discuss the project design and proposal deliverables.

#### Critical Reflections

As mentioned above, our team did not have a meeting this week and I wasn't able to attend the workshop, so it left me with so many things to catch up on. I wasn't able to understand the requirements and expectations of the project design, so I plan on attending an extra consultation next week just to be sure. I thought of using Figma to deliver a high-fidelity prototype of what our website would look like but am unsure if that is what our supervisor expects from the project design assignment.

#### Assigned Roles/Tasks

Communicated to my team regarding our plan to complete the project design and proposal and also collectively organized a meeting for next week.

#### Accomplishments

There weren't many accomplishments that me nor our team achieved this week except understanding the literature review part of the proposal and what we need to do in order to deliver a good literature review

#### Next Week's Tasks/ Reflections

Attend extra consultation to get doubts on project design and proposal clarified. Also start doing project design and do some deeper research into what our team can include on both project design and proposal

### **Week 8**

#### Tasks Undertaken

This week began with us organizing a meeting to discuss our design assignment as well as for the final proposal literature review assignment. We focused on understanding the tasks wholly and jotted down some important questions – both regarding the design aspect and clarification regarding the whole assignment. Our group went into a productive discussion over Messenger over the week, and I was able to show our tutor a sample of the web UI interface that we would be developing. We also divided parts for the proposal and divided it into 2 parts deadline – 1<sup>st</sup> part would be done by week 10, and we plan to finish the whole proposal by week 11 as we want to gain feedback from our tutor as well as preparing for our final presentation. Overall, our group was able to achieve all of our designated tasks this week, so its good progress made!

### Critical Reflections

As mentioned above, our team had lots of doubts regarding the whole project, and I wasn't particularly confident that our project was heading in the right direction. We had ideas that we wanted to incorporate but didn't know if our ideas were in line with the project requirements. As I was researching for the software and hardware requirements, I found myself lacking ideas for them as I only had a vague idea about the project, so I had to really try to understand what the project required us to do and do a little bit of preliminary planning regarding what our team plan to do during the project. As per usual, this was discussed clearly to my teammates and at the end of the week, we were feeling much more confident than before.

### Assigned Roles/Tasks

This week I tasked myself with designing the preliminary web UI Interface and showed it to our tutor. At the end of the week, I was able to design a high-fidelity prototype of it using Figma and our team has sent it to our tutor for review. I also did some research into what we could include further in our proposal.

### Accomplishments

Our team finished the draft for the design aspect of the assignment. We were also able to finish deciding on the hardware and software specification of the project. As a whole, we were also able to clarify our doubts and was nice to know that our team's project was indeed heading in the right direction.

### Next Week's Tasks/ Reflections

For next week, I would like to finish the justifications for our project's hardware and software specifications, as well as having a go at reading some scholarly journal articles for our final proposal assignment.

## **Week 9**

### Tasks Undertaken

During this week, our team really focused on improving our preliminary designs and I focused on the web UI interface design as I was the only one familiar with Figma. My other team members did the flowchart design for our website. We were satisfied with our designs and felt

that we had understood what was wanted in this assignment. In addition to this, I also stated some extra hardware and software specifications whilst also providing some general justification for them. Of course, all of this was possible as we had conducted a group meeting early on in the week.

### Critical Reflections

As we attended the workshop to gain feedback from our tutors, we were able to work on the things that we lacked from our design – i.e., focusing on the wrong aspects of the back-end diagram or the UI Interface design did not line up well with the content on the flowchart. To overcome this, we as a team had an extensive discussion within ourselves and also our tutors and was able to gain clarity regarding the design. Overall, I had fun undertaking the assignments as I am starting to know more about the project.

### Assigned Roles/Tasks

My assigned roles for this week were collectively organizing a group meeting early in the week and I also volunteered to complete the web UI Interface design using Figma. I updated my team regarding the necessary changes and was also able to receive feedback from them. Other than this, I also contributed on the justification part of the hardware and software specifications.

### Accomplishments

As a team, we were able to clarify our existing doubts regarding the design aspects of our assignment. I was personally also able to have a brief start to the project proposal and plan to contribute some more into the shared doc by next week.

### Next Week's Tasks/ Reflections

Collating and reading scholarly journal articles relating to literature review of the project proposal and have an extensive research regarding the risk management for our projects so I would be able to include them in our proposal. Our team also plans to finish the 1<sup>st</sup> part of the proposal by next week, so plenty of work that needs to be done by next week!

## **Week 10**

### Tasks Undertaken

This week our team mainly focused on completing the tasks for the proposal as we had initially planned to complete the first part of the proposal by the end of the first week. I mainly wrote the Introduction and Project Management parts and it's looking well, although it is still a bit disorganized right now. My teammates did the required research for the Literature Review part and overall, our proposal is off to a good start. We had our usual meeting during the class this week, and also had an informal interview with our supervisor where she had asked us how we are working as a team and whether or not we had started with our proposal yet.

### Critical Reflections

Some critical reflections I personally felt during this week were related to the Project Management parts of the proposal. As we have mostly reused points from our case study and

design submission, I find that we are lacking in new ideas which would be crucial in delivering a better proposal. I plan to brainstorm much more points with my teammates, especially to update our requirements traceability matrix and also our risk register.

#### Assigned Roles/Tasks

I assigned myself with the role of contributing towards different parts of the proposal and also did some brief research into what points we could include into each methodologies part to increase the quality of our proposal. I also contacted my teammates to see the progress with the proposal and conduct a general check-up just to make sure that we are all on the same page regarding the proposal.

#### Accomplishments

This week, our team has made accomplished having a good start to our proposal which includes sharing some points and different viewpoints into which we could add to our proposal.

#### Next Week's Tasks/ Reflections

By the end of next week, the realistic goal for my team would be to have a draft of our supposed proposal so that we could ask for feedback from our supervisor as well as touch up on some of the possible parts where we have not done a good job. By finishing the draft of the proposal gives my team the chance to have more time to prepare for the final presentation from the points made in the proposal.

### **Week 11**

#### Tasks Undertaken

This week, our team focused on finishing up the leftover parts in our project proposal as well as brainstorming some more ideas to be included in our requirements traceability matrix and our risk register. I communicated with my team regarding potential doubts that they may have and if we required an additional meeting to work things out between us. Also, I attended the workshop on Friday and saw other teams do their presentation!

#### Critical Reflections

Throughout this week, I've realized that our project proposal currently is lacking in word count, particularly in parts where we have not yet included our new ideas as opposed to ideas submitted in previous assignments. This is slightly concerning for me and I would want us to finish the proposal by mid of week 12 just to allow us for more leverage in preparation for our final presentation. As I saw the other teams conduct their presentations this week, I realized that our team really lacked the foundational research to back up arguments, so I plan to have a meeting with them as soon as possible to discuss further possibilities and improvements we can make to our project.

#### Assigned Roles/Tasks

As per last week, I assigned myself into completing the delegated parts of the project proposal – mostly project management and design aspects of the proposal. I have also started writing out the potential headings that we would like to include in our presentation.

#### Accomplishments

This week, our team managed to successfully complete the deadline for the first part of the proposal (Parts 1 - 4), so we are on track to finish the proposal by the end of this week – or latest by mid of next week. As mentioned above, I attended the workshop class and saw other teams perform their presentations which was interesting and eye-opening to me.

#### Next Week's Tasks/ Reflections

For next week, I would like to group up with my team for the last meetings of this semester to discuss the final drafts for our proposal as well as pre-record the final presentations. We have yet to pick out a date as we would want to finish the proposal first before going ahead with the presentation – just in case information in the proposal doesn't match with the information given in the presentation.