

Project Plan.

Intended for Jonathan Weightman.

Prepared by

Group PA2207:

- *Djed Curtis (19744647)*
- *Hasan Karabork (19679091)*
- *Jarrold Baker (20487821)*
- *Toufic Tannous (18528419)*

Executive Summary

The main project goal is to create of more advanced 3D modelling technologies for web browsers, an amazing opportunity has arisen to provide a modern 3D visualisation of the Clara's World programming game. The project aims to make the current Clara's World game legacy and replace it with a more updated version of itself. Ideally, the final product of this project will include not only a 3D version of this game, but will include two, if not more, themes. These themes include the default theme of "Clara in the Woods", a more natural and forest themed design, as well as a alternative theme titled "Clara in Space", which will be a space / galaxy type design.

The objective of the project is to create a straightforward visualisation for Clara which will deliver an improved theme that meets the demands and requirements of the project. The purpose is to create a type script dedicated to the requirements of the client so that all request and needs are accomplished. Our team will plan to find tools and resources that are essential to create and enhance the visualisation of Clara's world within the time frame given within the project.

The client for this project, the creator of the original game, wishes to include animations for the characters and elements within this game's world. The client also desires an updated administrative environment for the new game, allowing for users to develop new maps for players to use. Our team estimates that we will complete this project in it's entirety by the 3rd of June.

The following document aims to provide a detailed breakdown of the plan our team has agreed upon in order to complete this project by it's due date.

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Introduction

The purpose of this document is to introduce the Clara's world 3D project. Here we will provide a brief outline as to the purpose of the project, logistical plans in regard to the division of work amongst team members, our general approach to the solution and any possible problems/risks that the team may encounter along the way. Our main objective is to provide a new view to the already well-known Clara leaning tool used by various computer science and ICT related students at the University of Western Sydney. As per our project brief, this new view will transform the current 2D representation of Clara to a 3D model utilising various technologies to incorporate this view into the browser.

Group Details

Our group has thoroughly discussed our individual capabilities and have been able to form the following conclusions regarding our skills, weaknesses, and strengths. Despite possessing these weaknesses, we can earnestly say that we aim to eliminate many, ideally all, of these weaknesses throughout this project.

Djed Curtis – 19744647

- Regarding my skillset, I have a well-rounded understanding of many programming languages. C, C++, Java (including Android Java), Swift and XML would be the languages I'd consider myself confident with. With HTML and CSS following them, I would consider my experience and confidence with MS SQL, JavaScript and Python limited but am willing to spend time learning them.
- I'd say that my strengths include having strong communication abilities, being very flexible, goal oriented and determined. I'm naturally a social, outgoing, and calm person and would consider myself friendly, which all aid to my communication skills. In regard to my flexibility, I prioritise work and study and can make time for meetings and tasks. I also don't mind altering plans if the desired outcome of a project or task changes.
- My biggest weaknesses would be that I tend to get ahead of myself and overcomplicate things, I often burn out if I spend too long on a single task. I also lack unity experience.

Hasan Karabork – 19679091

- My main skill in relation to this project would be programming, I consider myself comfortable with a variety of languages; including, but not limited to C, C++, Java, HTML and JavaScript.
- I would say that my two main strengths would be my communication capabilities and my work ethic. Due to my communication skills, I am friendly and social, allowing me to thrive in group work. My strong sense of integrity in regard to work allows me to work exceptionally under pressure.
- When it comes to weaknesses, my main struggle is figuring out the initial start of a project. However, once a project is moving, I am able to continuously be productive with my work.

Jarrold Baker – 20487821

- I would say that my programming skills are strong with C++, Java, C#, and MS SQL. I am somewhat familiar with Python.
- I'd describe myself as persistent and work oriented, and I'd also say that I possess a strong work ethic, which allows me to consistently work on a task until said task is complete.
- My main weakness would be my lack of experience working with IT team projects, as well as my lack of experience with Unity and JavaScript

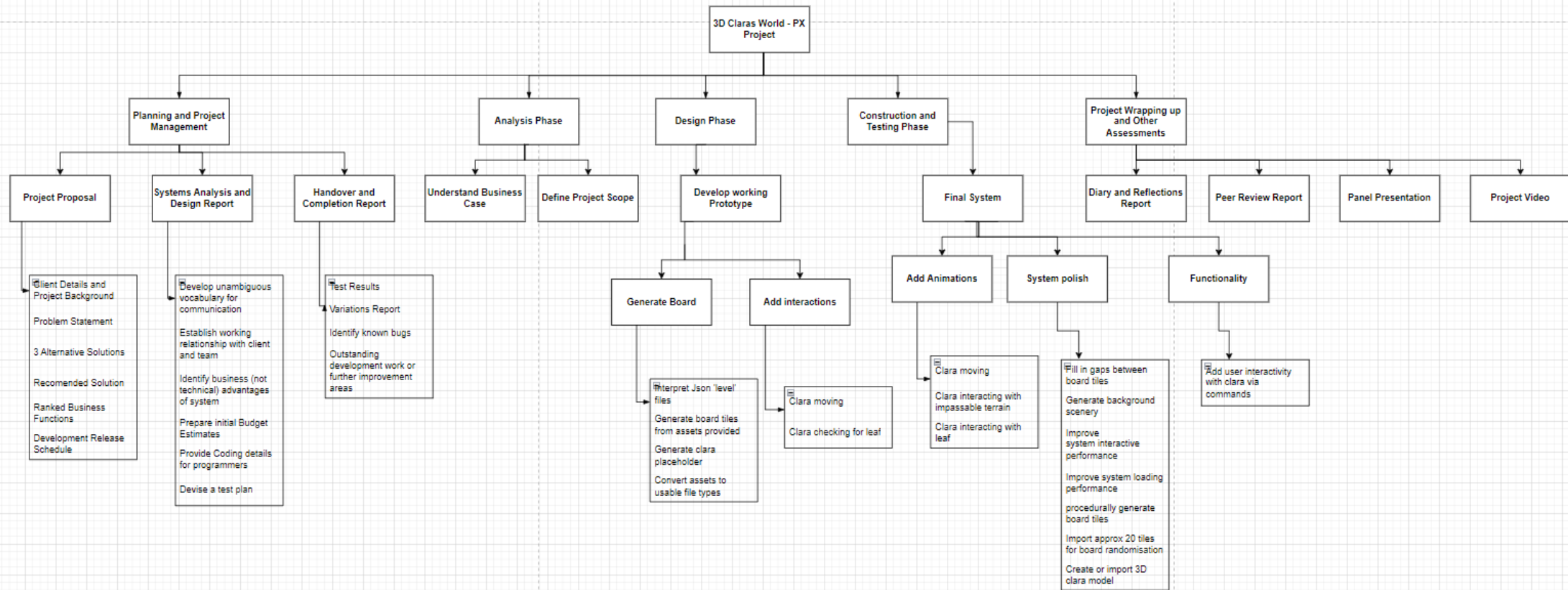
Toufic Tannous – 18528419

- I possess developed Database (SQL), networking, and routing skills as well as a great understanding of the Windows OS environment.
- My main strengths would be that I am exceptional with group work, and the organisation of tasks and projects. I also prioritise due dates, and always aim to complete tasks without delay.
- However, I struggle with C++ and other programming languages.

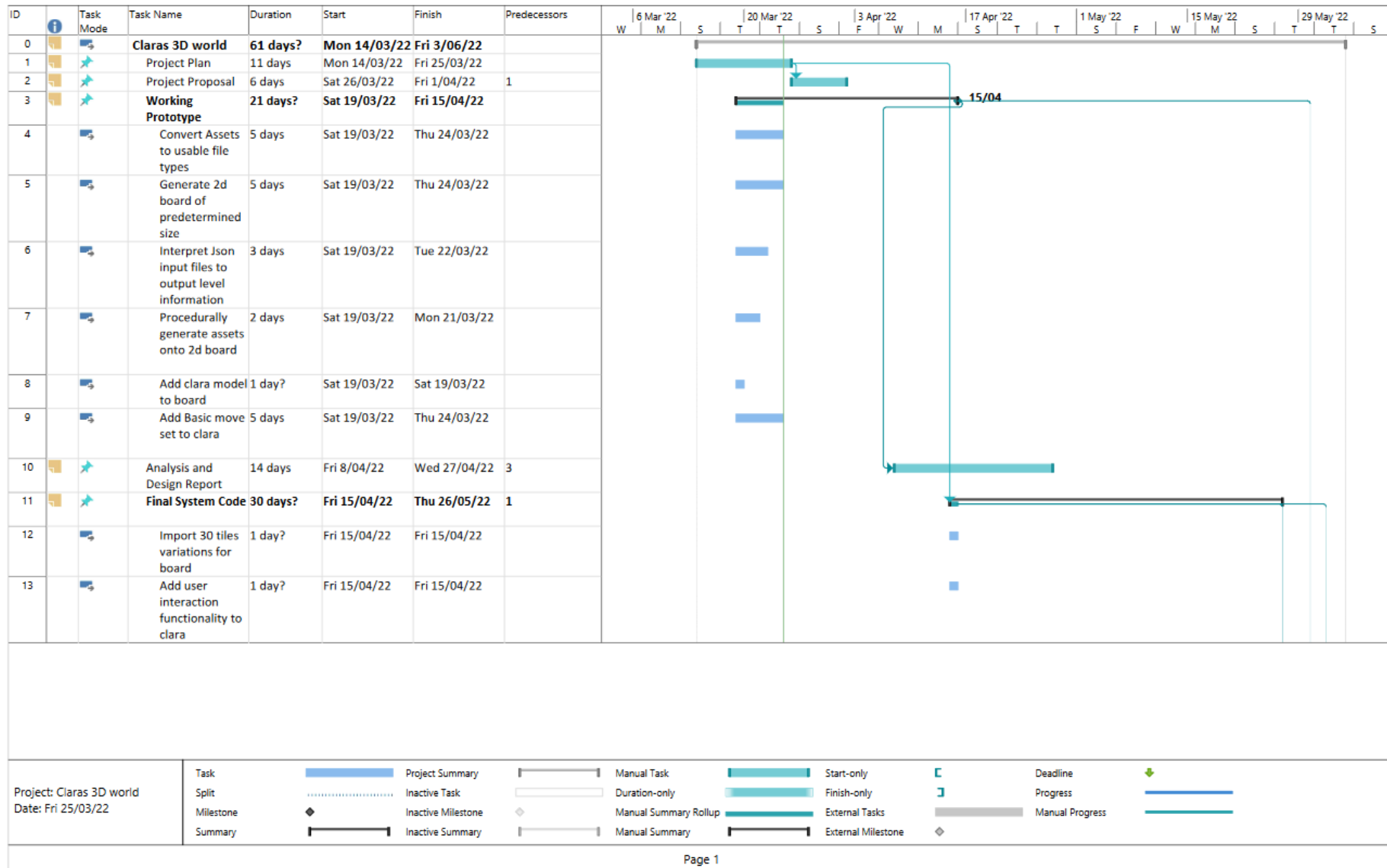
Project Management Related Issues and Risks

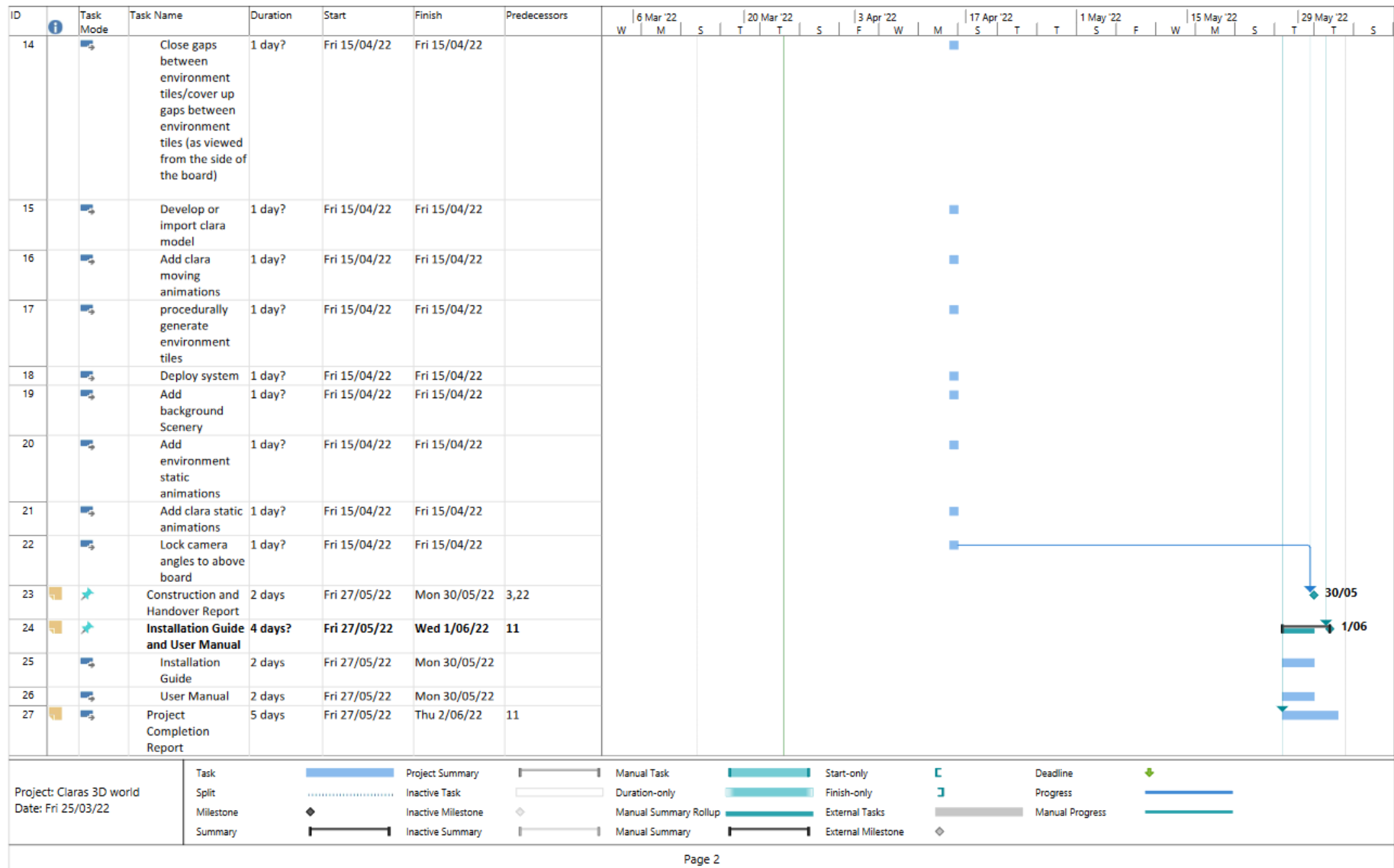
#	Risk/Issue	Resolution Expected to be Actioned
1	Lack of clarity during the development phase.	Ensure that any communication between the client, supervisor and other team members is clear and defined, any goals/features that need to be achieved should be clearly stated to avoid any misunderstanding.
2	Loss of data during the development phase.	All team members have access to the same code repository, in the case of loss of individual loss of work, best solution to avoid this would be by having data backed either locally or to the cloud.
3	Scope creep.	Make sure that the requirements for the project are clearly defined before development begins, ensure that any new requirements/functions needed are properly assessed and fits within the current schedule.
4	Changes in Tech being used.	Update any required methods to fit with current versions of tech being used.







Work Breakdown Structure



Gantt Chart





ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	<div><div>6 Mar '22</div><div>20 Mar '22</div><div>3 Apr '22</div><div>17 Apr '22</div><div>1 May '22</div><div>15 May '22</div><div>29 May '22</div></div>																											
28			Project Abstract Video	5 days	Fri 27/05/22	Thu 2/06/22	11	<div><div>W</div><div>M</div><div>S</div><div>T</div><div>T</div><div>S</div><div>F</div><div>W</div><div>M</div><div>S</div><div>T</div><div>T</div><div>S</div><div>F</div><div>W</div><div>M</div><div>S</div><div>T</div><div>T</div><div>S</div></div>																											
29			Project Completion	1 day?	Fri 3/06/22	Fri 3/06/22		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div> 3/06</div>																											

Group Milestones

The below table details the milestones our team will achieve throughout this project, the main responsibility and other information is all listed below.

Milestone	Main Responsibility	Planned Date	Due Date	Actual Date
Project Plan	Toufic/Djed/Hasan/Jarrood	20/3/2022	25/3/2022	
Project Proposal	Toufic/Djed/Hasan/Jarrood	27/3/2022	1/4/2022	
Working Prototype	Hasan/Djed	8/4/2022	11/4/2022	
Analysis Report	Jarrood/Toufic	17/4/2022	22/4/2022	
Design Report	Jarrood/Toufic	17/4/2022	22/4/2022	
Construction and Handover Report	Toufic/Djed/Hasan/Jarrood	27/5/2022	3/6/2022	
Installation Guide and User Manual	Toufic/Djed/Hasan/Jarrood	27/5/2022	3/6/2022	
Final System code	Toufic/Djed/Hasan/Jarrood	27/5/2022	3/6/2022	
Project Completion Report	Toufic/Djed/Hasan/Jarrood	27/5/2022	3/6/2022	
Project Abstract Video	Toufic/Djed/Hasan/Jarrood		3/6/2022	
Final Presentation	Toufic/Djed/Hasan/Jarrood		3/6/2022 (specific time TBC)	

Individual Milestones

Below are tables that depict the individual milestones and their completion dates for each group member.

Team Member: Djed				
Task	Final Deliverable	Start Date	End Date	Complete (%)
Compile Group Details	Project Plan	15/03/2022	16/03/2022	100%
Set up Tentative Meeting Plan	Project Plan	16/03/2022	16/03/2022	100%
Log Prior-Communication	Project Plan	08/03/2022	N/A	-
Compile and edit Project Plan	Project Plan	21/03/2022	25/03/2022	100%
Research and compose Alternative Solution 3	Project Proposal	26/03/2022	01/04/2022	0%
Investigate client details and project background	Project Proposal	26/03/2022	01/04/2022	0%
Recommend and Justify Solution	Project Proposal	26/03/2022	01/04/2022	0%
Compile and edit Project Proposal	Project Proposal	26/03/2022	01/04/2022	0%
Develop Working Prototype	Working Prototype	16/03/2022	01/04/2022	25%
Construction and Handover Report	Handover Report	27/05/2022	03/06/2022	0%
Installation Guide and User Manual	Guide and Manual	27/05/2022	03/06/2022	0%
Final System Code	Final System	27/05/2022	03/06/2022	0%
Project Completion	Competition Report	27/05/2022	03/06/2022	0%
Project Abstract Video	Video Presentation	27/05/2022	03/06/2022	0%
Final Presentation	-	-	03/06/2022	0%

Team Member: Hasan				
Task	Final Deliverable	Start Date	End Date	Complete (%)
Write Project Plan Introduction	Project Plan	15/03/2022	16/03/2022	100%
Research and compose Project Management Related Issues and Risks	Project Plan	16/03/2022	16/03/2022	100%
Write Project Proposal Introduction	Project Proposal	26/03/2022	01/04/2022	0%
Write Problem Statement	Project Proposal	26/03/2022	01/04/2022	0%
Research and compose Alternative Solution 1	Project Proposal	26/03/2022	01/04/2022	0%
Develop Working Prototype	Working Prototype	16/03/2022	01/04/2022	25%
Construction and Handover Report	Handover Report	27/05/2022	03/06/2022	0%
Installation Guide and User Manual	Guide and Manual	27/05/2022	03/06/2022	0%
Final System Code	Final System	27/05/2022	03/06/2022	0%
Project Completion	Competition Report	27/05/2022	03/06/2022	0%
Project Abstract Video	Video Presentation	27/05/2022	03/06/2022	0%
Final Presentation	-	-	03/06/2022	0%

Team Member: Jarrod				
Task	Final Deliverable	Start Date	End Date	Complete (%)
Plan and design Work Breakdown Structure	Project Plan	15/03/2022	25/03/2022	100%
Design Gantt Chart	Project Plan	18/03/2022	24/03/2022	100%
Research and rank High-Level Business Function and Use Cases	Project Proposal	26/03/2022	01/04/2022	0%
Schedule Development Release Schedule	Project Proposal	26/03/2022	01/04/2022	0%
Write Analysis Report	SAD Report	17/04/2022	11/04/2022	0%
Write Design Report	SAD Report	17/04/2022	11/04/2022	0%
Construction and Handover Report	Handover Report	27/05/2022	03/06/2022	0%
Installation Guide and User Manual	Guide and Manual	27/05/2022	03/06/2022	0%
Final System Code	Final System	27/05/2022	03/06/2022	0%
Project Completion	Competition Report	27/05/2022	03/06/2022	0%
Project Abstract Video	Video Presentation	27/05/2022	03/06/2022	0%
Final Presentation	-	-	03/06/2022	0%

Team Member: Toufic				
Task	Final Deliverable	Start Date	End Date	Complete (%)
Write Executive Summary	Project Plan	15/03/2022	25/03/2022	100%
Write Conclusion	Project Plan	18/03/2022	25/03/2022	100%
Write Executive Summary	Project Proposal	26/03/2022	01/04/2022	0%
Research and compose Alternative Solution 2	Project Proposal	26/03/2022	01/04/2022	0%
Write Conclusion	Project Proposal	28/03/2022	01/04/2022	0%
Write Analysis Report	SAD Report	17/04/2022	11/04/2022	0%
Write Design Report	SAD Report	17/04/2022	11/04/2022	0%
Construction and Handover Report	Handover Report	27/05/2022	03/06/2022	0%
Installation Guide and User Manual	Guide and Manual	27/05/2022	03/06/2022	0%
Final System Code	Final System	27/05/2022	03/06/2022	0%
Project Completion	Competition Report	27/05/2022	03/06/2022	0%
Project Abstract Video	Video Presentation	27/05/2022	03/06/2022	0%
Final Presentation	-	-	03/06/2022	0%

Tentative Meeting Plan

The following meeting plan has been constructed through meetings and emails and has formed into the table scene below, the length of meetings is subject to vary and the amount of meetings planned will also differ depending on what is needed.

Meeting Type	Length <i>*Varies</i>	First Meeting	Frequency	Meetings Planned	Location
Team Meeting	1 hour	09/03/2022	Twice a week: Sundays @ 10:00AM – 11:00AM Mondays @ 3:00PM – 4:00PM	24	Online – Discord Voice Call In-person – Booked Room (PS.EE.31)
Client Meeting	1 hour	14/03/2022	Once a week: Mondays @ 2:00PM – 3:00PM	12	In-person – Client's Office (PS.ER.G.17)
Supervisor Meeting	1 hour	17/03/2022	Once a week: Thursdays @ 4:30PM – 5:30PM	12	Online – Zoom Video Call
Specialist Support Analyst Meeting	1 hour	-	-	-	-

Prior-Communications

This section of the project plan details the communication that has taken place thus far within our team. It includes breakdowns of our meetings, emails, and messages.

Email Chain #1 – 08/03/2022 @ 4:42PM (*Appendix A*)

An introductory email was sent to all group members by Djed, which enquired about everyone's preferences regarding communication mediums. The email contained an invite to a Discord server setup by Djed for the group. Shortly after the email, responses were received from Hasan, Toufic, and Jarrod respectively. The conclusion of the chain was an agreement to use Discord as our main communication medium, paired with a secondary WhatsApp chat.

Group Meeting #1 – 09/03/2022 @ 5:30PM – 6:19PM (*Appendix B*)

This group meeting included Djed, Hasan, and Toufic, as at this time Jarrod had dropped the unit due to some timetabling issues, and Ohud had not been heard from. The meeting mainly focused on figuring out our mutual availabilities, however also covered our skills and diaries, as well as our preferences for completing written work. We also discussed the emails we were going to send to our client, supervisor, and unit coordinator in regard to Jarrod's departure.

Email Chain #2 – 09/03/2022 @ 6:56PM (*Appendix C*)

This email chain was brief but discussed the chance of getting a replacement member for Jarrod, however no replacements were available at the time.

Email Chain #3 – 10/03/2022 @ 10:09AM (*Appendix D*)

We arranged a meeting time with our client through this email chain, with us eventually agreeing upon Mondays at 2:00PM in our client's office. The emails were sent and written by Djed but verified by Hasan and Toufic.

Email Chain #4 – 10/03/2022 @ 10:54AM (*Appendix E*)

This email chain was to arrange a regular meeting time with our supervisor, we ended up agreeing upon Thursdays from 4:30PM using Zoom. These emails were sent and written by Djed but checked by Hasan and Toufic.

Group Meeting #2 – 13/03/2022 @ 10:00AM – 10:46AM (*Appendix F*)

During our second meeting, we had Djed, Toufic and Jarrod present. Jarrod had refuted the complications he had and was able to re-join our group, hence, this meeting included a bit of a refresher from our past meeting. We then discussed the project plan, brought up our weekly diaries and confirmed all our meetings with our client and supervisor.

Client Meeting #1 – 14/03/2022 @ 2:00PM – 3:00PM (*Appendix G*)

This meeting was our introductory meeting between the team and our client, all four group members were present as we got a response from Ohud saying he had dropped the unit. The meeting covered the project scope and goals; however, the content wasn't in a lot of depth as our client stated that the next meeting would be longer and would have more content.

Email Chain #5 – 14/03/2022 @ 3:04PM (*Appendix H*)

Our client sent an email with a bit more content and confirmed that the next meeting would be more in-depth in regard to the project's scope. He also requested to join our Discord in order to communicate with us quickly outside of our meetings. All members attended this meeting

Supervisor Meeting #1 – 17/03/2022 @ 4:35PM – 5:35PM (*Appendix I*)

Our first meeting with our supervisor went well, it was mostly an introductory meeting, however we went over what our priorities should be. We also discussed the ultimate goal of the project, the importance of prototyping and polishing, and the structure of our project plan. All members attended this meeting.

Group Meeting #3 – 20/03/2022 @ 10:00AM – 11:42AM (*Appendix J*)

This group meeting mostly included talks about the project plan and some code relating to the project. We discussed the completed parts of our project plan, and any changes that were necessary, and went over some code for the project with members who hadn't touched the programming side of the project yet. All members attended this meeting.

Client Meeting #2 – 21/03/2022 @ 2:05PM – 4:03PM (*Appendix K*)

While a long meeting, most of this client meeting covered working with GitHub and setting up our project repository. However, we also covered the exporting of 3D models from Unity as well as the ideal look of the finished project.

Group Meeting #4 – 23/03/2022 @ 6:00PM – 8:09PM (*Appendix L*)

This meeting briefly discussed the individual milestones section of the project plan. The rest of the meeting was used as a group work time in which our team worked together on the project, Djed and Hasan worked on programming, Jarrod worked on the Gantt chart for the project plan and Toufic spent the time exporting FBX models and converting them to the desired GLB format.

Supervisor Meeting #2 – 24/03/2022 @ 4:35PM – 5:25PM (*Appendix M*)

Our second supervisor meeting included revising our project plan, that was pretty much all we did during the meeting. We did however, also go over some of our accomplishments so far. All members attended this meeting.

Conclusion

For the final conclusion the team can finalize that the software that is going to be used in the project to make Clara world into 3D will be Babylon.JS. It will be a great java script that will reduce time and cost efficiently. Compared to the other JavaScript it's the easiest and cheapest way to utilise without the need of addition cost and is simple to deploy. The other advantage to this JavaScript is that it's safe to use and has all the newest up to date software which will make it user friendly to use. The main goal is to deliver a new interface with an added new theme for Clara so that all the necessary requirements are meet with the client and is up to standard.

The Babylon.js ensure that all users can accomplish better features and visualisation, which will help to create better experience with creating objects and tools that help to achieve making new worlds for Clara. It had open new ideas and innovation on how to make 3D models and had a wide variety of features that were available that made it impressive to use. It features are straight forward and easy to clearly understand the basics, so that it won't be difficult to access it main tools and features to create Clara in 3D. Finally, the team can conclude that the JavaScript Babylon.js will dramatically save cost and time which will help us to achieve our main goals in the project, so that all demands are all meet.

Appendices

Appendix A

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Sent: Tuesday, 8 March 2022 4:42 PM
To: Ohud Alruwaili <19958574@student.westernsydney.edu.au>; Jarrod Baker <20487821@student.westernsydney.edu.au>; Hasan Karabork <19679091@student.westernsydney.edu.au>; Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: PX Group Communications - PA2207

Hello everyone!

I'm Djed Curtis, 19744647, and I'm very excited to get to know and work with all of you.
I know this is email is pretty sudden, considering the lecture just ended, but I thought it would be best to touch base and setup connections ASAP.

First things first, what application/platform is everyone most comfortable using for online meetings?
I've already set up a Discord server that we can use as I thought it may be useful for meetings, messaging and also sharing links, documents and so on.
Also considering it's quite easy to use and pickup if you haven't touched it before.
The link is <https://discord.gg/xNB8cjgETE>

If Discord isn't the best for everyone then we could also use Signal, Whatsapp, Messenger, and whatever suggestions you all have, those are just the platforms I have and don't mind using.
I was hoping we could meet up in person, but given the current weather conditions and train delays, online meetings may be the way to go for a while.

In case anyone wanted to add me on Facebook for quick communication, my Facebook shouldn't be too hard to find, just search Djed Curtis and I think I may be the only one.

I hope to hear back from you all soon and look forward to working with you all!
Kind regards,
Djed.

From: [Hasan Karabork](#)
Sent: Tuesday, 8 March 2022 5:04 PM
To: [Djed Curtis](#); [Ohud Alruwaili](#); [Jarrod Baker](#); [Toufic Tannous](#)
Subject: Re: PX Group Communications - PA2207

Hey everyone,

My name is Hasan Karabork, I haven't used worked with BabylonJS before but i have worked with javascript quite some time ago so i will need to get back into the swing of it. I am comfortable using discord but i am also happy to use any other messaging platforms.

Kind regards,
Hasan.

From: Jarrod Baker <20487821@student.westernsydney.edu.au>
Sent: Tuesday, 8 March 2022 5:22 PM
To: Hasan Karabork <19679091@student.westernsydney.edu.au>; Djed Curtis <19744647@student.westernsydney.edu.au>; Ohud Alruwaili <19958574@student.westernsydney.edu.au>; Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: RE: PX Group Communications - PA2207

Hi all,

Im Jarrod, I only know JavaScript through the subject "Technologies for Web Applications" and hadn't heard of Babylon js until I read the project description, so I'll need to brush up on js. Happy to use discord/WhatsApp/anything else.

Kind Regards,
Jarrod

RE: PX Group Communications - PA2207



Jarrod Baker <20487821@student.westernsydney.edu.au>

8/03/2022 5:25 PM



To: Djed Curtis

Hey Djed,

I just joined the discord server, name jdizzled.

Kind Regards,
Jarrod

Sent from [Mail](#) for Windows

Re: Groups for professional experience



Toufic Tannous <toufictannous@hotmail.com>

8/03/2022 5:18 PM



To: Djed Curtis

Discord should be fine to use.

Get [Outlook for Android](#)

From: Djed Curtis <19744647@student.westernsydney.edu.au>

Sent: Tuesday, March 8, 2022 5:13:02 PM

To: Toufic Tannous <TouficTannous@hotmail.com>

Subject: RE: Groups for professional experience

Hey Toufic!

I am more than happy to use Whatsapp, and I'll just add you on that now, however if you can use Discord it would be ideal just because Hasan and I have joined a server together in order to communicate.

But we can discuss that further on Whatsapp 😊

Cheers,
Djed.

From: [Toufic Tannous](#)

Sent: Tuesday, 8 March 2022 5:06 PM

To: [Djed Curtis](#)

Subject: Groups for professional experience

Hi DJED

Wanted to confirm if we can use WhatsUp as our group chat for the group project. My phone number is 0403932165.

Kind regards
Toufic Tannous

Get [Outlook for Android](#)

Appendix B

Meeting One.

(Wednesday, 9th of March. 09/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Ohud = N

Jarrood = N

Topics.

- Emails
 - + Lecturer
 - + Client
 - + Supervisor
- Skills
- Word vs Google Docs
- Diaries
- Meetings

Notes.

- Jarrod left group
- Client, Supervisor meetings on same day preferably
- Group Meetings Sunday 10AM
- Preferably Tuesday Client and Supervisor Meetings
- Word for most, docs for final

Timetable.

Friday: >7.30PM

Sunday: All Day (Preference Morning)

Monday: >5:30PM

Tuesday: All Day (-1PM to 3PM)

Wednesday: All Day (Preference 5.30PM)

Thursday: No Go Day

Appendix C

Re: PX - Group Member Left (PA2207)



Anupama Ginige <j.Ginige@westernsydney.edu.au>

9/03/2022 7:01 PM



To: Djed Curtis Cc: Hasan Karabork; Toufic Tannous; Ohud Alruwaili

Hi Djed,

At the moment, to my knowledge, all students are allocated to groups. If someone comes along this week, I will assign that person to your group. Also, your project can be completed with 4 students. You may have to negotiate the scope a bit with your client, and doing so, take guidance from your supervisor.

Regards,
Anupama

orcid.org/0000-0002-6695-6983

Build a career that matters!



Bachelor of Information and Communications Technology
(Health Information Management)



I support the rights of Sexuality and Gender Diverse people. To signal your support, please sign the WSU Statement of Support here.



I acknowledge the peoples of the Darug, Tharawal, Eora and Wiradjuri nations, the Traditional Owners of the lands on which Western Sydney University campuses are built and on which our staff and students work and learn, continuing tens of thousands of years of traditions on these lands. I acknowledge these lands were never sold nor ceded and I pay my respects to the infinite wisdom embedded forever in the Aboriginal custodianship of country.

From: Djed Curtis <19744647@student.westernsydney.edu.au>

Date: Wednesday, 9 March 2022 at 6:57 pm

To: Anupama Ginige <j.Ginige@westernsydney.edu.au>

Cc: Hasan Karabork <19679091@student.westernsydney.edu.au>, Toufic Tannous <18528419@student.westernsydney.edu.au>, Ohud Alruwaili <19958574@student.westernsydney.edu.au>

Subject: PX - Group Member Left (PA2207)

Dear Anupama Ginige,

It's come to our groups attention that one of our members, Jarrod Baker (20487821), has dropped the unit as he isn't eligible to complete this unit this semester.

We were wondering about potentially getting a replacement team member, you mentioned during the lecture yesterday that there are a few students that are floating around without a team.

We hope to hear back from you soon.

Kind regards,

Group PA2207;

Djed Curtis (19744647)

Hasan Karabork (19679091)

Toufic Tannous (18528419)

Ohud Alruwaili (1995874)

Appendix D

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Date: Thursday, 10 March 2022 at 10:09 am
To: Tomas Trescak <T.Trescak@westernsydney.edu.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>, Hasan Karabork <19679091@student.westernsydney.edu.au>, Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: 3D Experience for Clara's World

Dear Tomas Trescak,

We're the group that has had the pleasure to be assigned to work with you for our professional experience project!
We'd love to discuss meeting times with you in order to talk through the many questions we have.
We also want to fit into your schedule, so following that, what day and time would best suit you to have an introductory meeting?
And what platform/application would you like to use to conduct meetings? We are all comfortable with Zoom if that's an option for you.
We hope to figure out what day and time we can set up regular, ideally weekly, meetings with you and also to talk about the specifics and scope of the project.
In regard to our preferences for meeting times, Tuesdays, Wednesdays and Sundays work best for us, however we can be flexible.

We hope to hear back from you soon, and we look forward to working with you!
Kind regards,
Djed Curtis
Hasan Karabork
Toufic Tannous
Ohud Alruwaili

From: [Tomas Trescak](#)
Sent: Thursday, 10 March 2022 10:20 AM
To: [Djed Curtis](#)
Cc: [Ohud Alruwaili](#); [Hasan Karabork](#); [Toufic Tannous](#)
Subject: Re: 3D Experience for Clara's World

Dear Team

It is a pleasure to meet you.
Unfortunately, your mentioned days are complicated for me as I am only available on Monday afternoons.
How about we lock in Monday 2PM? We do need to meet weekly as per your PX requirements.
I prefer meetings in person as Zoom and online collaborative tools are not productive in this scenario.
We shall meet in my office in ER.G.17 and I will book a meeting room for us. Please confirm a time.

In this project, you will be developing a 3D view of the world in the claraworld.net application.
Until this coming Monday meeting please start working towards your programming knowledge in "Typescript" and start working with the Babylonjs library.

On Monday, I will introduce the project further and present the roadmap for this semester.
Here are some resources to get you started:

- <https://www.babylonjs.com> and <https://doc.babylonjs.com/start>
- <https://www.typescripttutorial.net>
- If you are not comfortable with Javascript here is a fantastic tutorial: <https://es6.io> it is a paid course, but the price is quite acceptable. There is a myriad of free options as well.

Looking forward to meet you.
Kind regards

Dr Tomas Trescak
Director of Academic Program Undergraduate ICT
Senior Lecturer In Intelligent Systems
School of Computer, Data and Mathematical Sciences
Western Sydney University | Locked Bag 1797 Penrith NSW 2751

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Date: Thursday, 10 March 2022 at 10:46 am
To: Tomas Trescak <T.Trescak@westernsydney.edu.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>, Hasan Karabork <19679091@student.westernsydney.edu.au>, Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: RE: 3D Experience for Clara's World

Dear Tomas Trescak,

We can indeed lock in Monday 2PM, is your office based on the Parramatta South campus?
We will work on our Typescript knowledge and get comfortable with the BabylonJS library in the mean time, and we look forward to meet and work with you.

Kind regards,
Djed Curtis
Hasan Karabork
Toufic Tannous
Ohud Alruwaili

Re: 3D Experience for Clara's World



Tomas Trescak <T.Trescak@westernsydney.edu.au>
10/03/2022 3:32 PM



To: Djed Curtis Cc: Ohud Alruwaili; Hasan Karabork; Toufic Tannous

Hello

I sent out the invite, yes it is Parramatta South campus, the CDMS building, ground floor, door 17.

Dr Tomas Trescak
Director of Academic Program Undergraduate ICT
Senior Lecturer In Intelligent Systems
School of Computer, Data and Mathematical Sciences
Western Sydney University | Locked Bag 1797 Penrith NSW 2751

P: [\(02\) 9685 4744](tel:0296854744)

E: t.trescak@westernsydney.edu.au

W: <https://tomino.gitbook.io>

Zoom Consultation Hours: Monday 2-3pm, Thursday 9-10am

We acknowledge and respect Traditional Owners of the Lands, the Darug, Gundungurra, D'harawal, Wiradjuri and Bundjalung Peoples, upon which our campuses now stand. We continue to value the generations of knowledge Aboriginal and Torres Strait Islander Peoples embed within our University.

WESTERN SYDNEY
UNIVERSITY



Appendix E

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Sent: Thursday, 10 March 2022 10:54 AM
To: Jonathan Weightman <j.weightman@lymlive.com.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>; Hasan Karabork <19679091@student.westernsydney.edu.au>; Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: 3D Experience for Clara's World | Group PA2207

Dear Jonathan Weightman,

We're the group that has been assigned the 3D Experience for Clara's World project for Professional Experience and who've gotten you as our Supervisor.

We would love to set up a regular meeting time based on your schedule, so in line with that, what day and time would be best for you to be able to have an online meeting with us.

And what application/program would you prefer to use? We're all more than happy to use Zoom for our meetings if that's an option for you, we can also meet in person if that's your preference.

In regard to our schedule, we have our client meeting on Monday at 2PM, but other than that our first half of the week is open, including Sunday.

Despite our timetable, we can be flexible in order to prioritise these meetings.

We hope to hear back from you soon,

Kind regards,

Djed Curtis

Hasan Karabork

Toufic Tannous

Ohud Alruwaili

From: [Jonathan Weightman](#)
Sent: Thursday, 10 March 2022 2:21 PM
To: [Djed Curtis](#)
Cc: [Ohud Alruwaili](#); [Hasan Karabork](#); [Toufic Tannous](#)
Subject: RE: 3D Experience for Clara's World | Group PA2207

Hi, Djed

I am available tomorrow Friday at 1pm does this work for the team.

Regards

Jonathan



JONATHAN WEIGHTMAN

GENERAL MANAGER

12/61 Regentville Road, Jamisontown
New South Wales, Australia

+612 9564 3688

j.weightman@lymlive.com.au

lymlive.com.au



From: Djed Curtis <19744647@student.westernsydney.edu.au>
Sent: Thursday, 10 March 2022 4:21 PM
To: Jonathan Weightman <j.weightman@lymlive.com.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>; Hasan Karabork <19679091@student.westernsydney.edu.au>; Toufic Tannous <18528419@student.westernsydney.edu.au>
Subject: RE: 3D Experience for Clara's World | Group PA2207

Hey Jonathan,

Unfortunately one of our group members is not available during the day on Fridays, including tomorrow. Our availabilities are as follows:

Monday: After 2PM
Tuesday: All Day (excluding 1PM to 3PM)
Wednesday: All Day
Friday: Only Evenings (from 7:30PM)
Sunday: All Day

I hope there is a time there that works from you, if not our team will discuss rearranging our personal schedules.

Also regarding a communication medium, was Zoom okay for you?

Kind regards,
Djed Curtis
Hasan Karabork
Toufic Tannous
Ohud Alruwaili

From: [Jonathan Weightman](#)
Sent: Friday, 11 March 2022 8:58 PM
To: [Djed Curtis](#)
Cc: [Ohud Alruwaili](#); [Hasan Karabork](#); [Toufic Tannous](#)
Subject: RE: 3D Experience for Clara's World | Group PA2207

I can do Thursday or Friday afternoon from 12pm to 6pm discuss amongst yourselves and see what times you can come up with.

Regards

Jonathan

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Sent: Saturday, 12 March 2022 3:46 PM
To: Jonathan Weightman <j.weightman@lymlive.com.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>; Hasan Karabork <19679091@student.westernsydney.edu.au>; Toufic Tannous <18528419@student.westernsydney.edu.au>; Jarrod Baker <20487821@student.westernsydney.edu.au>
Subject: RE: 3D Experience for Clara's World | Group PA2207

Would we be able to lock in 4:30PM Thursday over Zoom?
That works for our group.

Kind regards,
Djed Curtis
Hasan Karabork
Toufic Tannous
Ohud Alruwaili
Jarrod Baker

RE: 3D Experience for Clara's World | Group PA2207



Jonathan Weightman <j.weightman@lymlive.com.au>
12/03/2022 5:36 PM



To: Djed Curtis Cc: Ohud Alruwaili; Hasan Karabork; Toufic Tannous; Jarrod Baker

Sounds good setup a zoom meeting and send me a calendar invite



JONATHAN WEIGHTMAN

GENERAL MANAGER

12/61 Regentville Road, Jamisontown
New South Wales, Australia

+612 9564 3688

j.weightman@lymlive.com.au

lymlive.com.au



Appendix F

Meeting Two.

(Sunday, 13th of March. 13/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = N

Toufic = Y

Ohud = N

Jarrold = Y

Topics.

- Catch up for Jarrod
- Project Plan
 - + Approx. 3,500 words
 - + 7-10 pages
 - + Due Week 3 11:59PM Friday (25/03/2021 @ 11:59PM)
- Weekly Diaries!!
 - + Closes at 11:59PM tonight!

Allocation.

- Project Plan (5%) (DUE 27th 11:59PM)
 - + ~700 words each
 - + ~2 pages each
 - + Written in separate Word Docs, then submitted to #project-plan channel
 - + Marking Criteria:
 - * Content (0.5%) - Complete content
 - * Feasibility and Accuracy (3.5%) - Must be an accurate and feasible plan
 - * Content Presentation (0.5%) - Use appropriate tools (text, tables, diagrams, etc.)
 - * Professionalism in Documentation (0.5%) - No grammatical or spelling errors

Notes.

- Worst case scenario, if Ohud doesn't show
 - + ~175 words each extra pp
 - + 0.5 pages extra pp
- Meet at the bottom of EA for client Parramatta
- Aim to have Project Plan done by 20th of March
- Aim to get introduced/comfortable with Typescript/Javascript/BabylonJS
- After client meeting, discuss project plan

Timetable.

Monday: Client Meeting @ 2PM (PS.ER.G.17)

Tuesday: N/A

Wednesday: N/A

Thursday: Supervisor Meeting @ 4:30PM (Zoom)

Friday: N/A

Saturday: N/A

Sunday: Group Meeting @ 10AM (Discord)

Appendix G

Meeting One.

(Monday, 14th of March. 14/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrood = Y

Notes.

- React
- New Clara's World Site = staging.clarasworld.net
- Download Unity 2019 (Only Unity that works with assets)
- Repository access has been given to us now
- To export as FBX:
 - + find desired tile in assets (low poly isometric tiles/prefabs)
 - + add tile to scene view (or hierarchy)
 - + right click on item in hierarchy to export as FBX
 - + download facebookincubator (to convert FBX file to glTF)
 - + copy .msi file to assets folder
 - + run cmd command to convert file
- Install node.js
- Could be could be 3JS or Babylon, will find out tomorrow
- Feasibility study
- Ultimate goal is a sandbox environment for creating levels

Ver1 (3 weeks max)

- get 3D grid working with assets that will be sent
- Clara interaction with leaf

Ver2 (a week or two)

- animation (idle animation)

Ver3

- randomise tiles for grid
- generate tile combination to create unique tiles

Ver4

- optimise tile generation

Appendix H

From: Tomas Trescak <T.Trescak@westernsydney.edu.au>
Date: Monday, 14 March 2022 at 3:04 pm
To: Djed Curtis <19744647@student.westernsydney.edu.au>
Cc: Ohud Alruwaili <19958574@student.westernsydney.edu.au>, Hasan Karabork <19679091@student.westernsydney.edu.au>, Toufic Tannous <18528419@student.westernsydney.edu.au>, hasan.9789@gmail.com <hasan.9789@gmail.com>
Subject: Re: 3D Experience for Clara's World

Guys

I have not even introduced myself and di not let you introduce yourself.

We will have time for all that next week, I promise 😊

I'd love to know more about you and what you want to in your future so that I can focus on developing those skills.

For now, here is the repository with the web application:

<https://github.com/tomitrescak/clara-3d>

Please register in the github and fork this repository with the “fork” button.

Then you will be able to clone it via “git clone

<https://github.com/<yourusername>/clara-3d>”

Kind regards

From: [Tomas Trescak](#)
Sent: Monday, 14 March 2022 6:27 PM
To: [Djed Curtis](#)
Cc: [Ohud Alruwaili](#); [Hasan Karabork](#); [Toufic Tannous](#); [hasan.9789@gmail.com](#)
Subject: Re: 3D Experience for Clara's World

Guys, send me that Discord invite.

I managed to solve the rendering issues.

Talk soon.

Dr Tomas Trescak
Director of Academic Program Undergraduate ICT
Senior Lecturer In Intelligent Systems
School of Computer, Data and Mathematical Sciences
Western Sydney University | Locked Bag 1797 Penrith NSW 2751

P: [\(02\) 9685 4744](tel:0296854744)

E: t.trescak@westernsydney.edu.au

W: <https://profile.trescak.co>

Zoom Consultation Hours: Monday 2-3pm, Thursday 9-10am

From: Djed Curtis <19744647@student.westernsydney.edu.au>
Date: Monday, 14 March 2022 at 6:41 pm
To: Tomas Trescak <T.Trescak@westernsydney.edu.au>
Cc: Jarrod Baker <20487821@student.westernsydney.edu.au>, Toufic Tannous <18528419@student.westernsydney.edu.au>, Hasan Karabork <19679091@student.westernsydney.edu.au>
Subject: RE: 3D Experience for Clara's World

Hey!

No worries, we'll all introduce ourselves next Monday 😊
Here is the Discord invite! <https://discord.gg/xNB8cigETE>
We're excited to see the rendering fixes. Does this mean we will be continuing with using BabylonJS?

We will also get on forking the repository as soon as possible.

Kind regards,
Djed Curtis
Hasan Karabork
Toufic Tannous
Jarrod Baker

Re: 3D Experience for Clara's World



Tomas Trescak <T.Trescak@westernsydney.edu.au>
14/03/2022 6:47 PM



To: Djed Curtis Cc: Jarrod Baker; Toufic Tannous; Hasan Karabork

Don't fork with my repository! 😊

Yah, all is fixed, we proceed with Babylonjs, what is the most optimal solution!
Keep crunching that JavaScript and babylonjs, play with the positioning of objects around and we'll start full on next week.

I'll also explain the contribution workflow and others which will benefit you in your future career.

I pushed the fix to the server so you can pull from there as well (if you do not know what I'm thinking about, I'll explain next week :)

Kind regards

Dr Tomas Trescak
Director of Academic Program Undergraduate ICT
Senior Lecturer In Intelligent Systems
School of Computer, Data and Mathematical Sciences
Western Sydney University | Locked Bag 1797 Penrith NSW 2751

P: (02) 9685 4744
E: t.trescak@westernsydney.edu.au
W: <https://profile.trescak.co>
Zoom Consultation Hours: Monday 2-3pm, Thursday 9-10am

Appendix I

Meeting One.

(Thursday, 17th of March. (17/03/2022))

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrood = Y

Notes.

- Prioritise learning TypeScript
- Default is JavaScript -> TypeScript is becoming more popular
- JavaScript web-based interfaces are dominant
- Ensure final product is good
- Mostly Babylon.js learning over the next few weeks
- Have Project Plan ready to be checked by next meeting
- Executive Summary needs to mention final due date!
- Project Plan for Developing NOT Completing
 - + 1 milestone every two weeks (MINIMUM)
 - + ~6-7 milestones overall
 - + Individual Task List - Details about us planning the project
- Don't have too much information about university requirements
- Ensure there's enough about the actual project
- Functional demo at 6 weeks
 - + Need to show Clara moving
- Prototyping is extremely important
- Core functionality generally completed around week 6
- Polishing from week 6 onwards
- Don't leave everything to the last minute
- Academic panel we will present in front of
- Ensure we complete our peer assessments

Appendix J

Meeting Three.

(Sunday, 20th of March. 20/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrold = Y

Topics.

- Email to specialist support analyst
- Diaries
- Project Plan
 - + Executive Summary ✓ / X
 - + Conclusion ✓ / X
 - + Introduction ✓ / X
 - + Project Management Related Issues and Risks ✓ / X
 - + WBS ✓ / X
 - + Gantt Chart ✓ / X
 - + Past Comms. ✓ / X
 - + Group Details ✓ / X
 - + Meeting Plan ✓ / X
- Email to Jonno regarding project plan
- Send word docs to #project-plan for compiling once complete

Allocation.

- Milestones
- Individual Task Lists (SECTION)
 - + Djed
 - Group Details
 - Past Communications
 - Meeting Plan
 - + Hasan
 - Issues and Risks
 - Introduction
 - + Jarrod
 - WBS
 - Gantt Chart
 - + Toufic
 - Executive Summary
 - Conclusion

Notes.

- Specialist meeting can wait
- Download 2019.3.0
- Main responsibilities to be discussed supervisor meeting
- Write email to lecturer regarding project plan word limit
- Write email to Jonno regarding project plan

Appendix K

Meeting Two.

(Monday, 21st of March. 21/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrood = Y

Notes.

- Swift playground
- Individual assets will overlap perfectly when loaded into Babylon.JS scene
- Download around 15 tiles of each type to test around

Appendix L

Meeting Four.

(Wednesday, 23rd of March. 23/03/2022)

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrood = Y

Topics.

- Project Plan
 - + Individual Milestones
- Code

Notes.

- Soft deadline by Sunday (27/03/2022)
- Hard deadline by Wednesday (30/03/2022)
- Lots of questions to ask Tomas about code

Appendix M

Meeting Two.

(Thursday, 24th of March. (24/03/2022))

Attendance.

(Y = yes, N = no)

Djed = Y

Hasan = Y

Toufic = Y

Jarrood = Y

Topics.

- Project Plan
 - + Word limit
 - + WBS
 - + Gantt Chart
 - + Individual Milestones
 - + Exec Summary

Notes.

- Finish date should be earlier than 3rd of June
 - + Finished around week 10
 - + From there do bug testing
- Put group details in a table
 - + So it's laid out cleaner
- Take out first issue and risk (Lack of JavaScript/TypeScript)
- Add more issues and risks
 - + Losing data
 - + Unwell
- Need to have a GitLab
 - + Assign the current GitHub repo to a GitLab repo and work off that
- Construction and Testing Phase Fleshed Out
 - + Include testing
- Server requirements -> contact Nabil
- User manual can be included in the system
- Can resubmit up to Monday (email Jonathan about it)
- Try setting up a web server on computer to test
- Tips for actually getting good marks
 - + All about development
 - + Client's response
 - + Academic panel's conclusion
 - + Documentation really doesn't matter all that much