

Individual Contribution Report

Student Name: Alex Lin

SID: 490 401 262

Tutor: Yichao Hao

Project: P23 Glioblastoma Cell Preprocessing

Client: Lin Zhang

1. Statement of Work Done

1.1 Summary of Work Done

- Brief summary of XP roles:
 - Week 1: Not yet allocated
 - Week 2: Not yet allocated
 - Week 3 - 5: Coach - generate team enthusiasm and motivation by encouraging other members in a positive way, and keeping the work atmosphere cheerful yet productive. Resolving team conflicts and aligning direction of teamwork towards the project scope. Encourage team organisation and planning.
- Technical tasks and roles
 - UI design client research
 - UI low fidelity sketching and brainstorming
 - Mid-fidelity Figma wireframing
 - Research and discussion of frontend and backend architecture
 - Learn about frontend technologies to be able to apply skills to project
 - Set-up of frontend architecture
- Other responsibilities:
 - Report writing
 - Discussion in team meetings
 - Participation in client meetings

1.2 Weekly Plan

Week	Work Planned	Work Completed
Week 1	<ul style="list-style-type: none">• Discuss group workflows such as meeting times, etc.• Create Atlassian account, Slack account, etc.• Join the relevant groups	<ul style="list-style-type: none">• Discussed group workflows such as meeting times, etc.• Created Atlassian account, Slack account, etc.• Join the relevant groups
Week 2	<ul style="list-style-type: none">• Meet with client• Understand the client requirements• Submit deed polls and group contract on behalf of group	<ul style="list-style-type: none">• Met with client• Understood the client requirements• Submitted deed polls and group contract
Week 3	<ul style="list-style-type: none">• Low fidelity sketches of UI• Research and discussion of	<ul style="list-style-type: none">• Made low fidelity UI sketches• Researched and discussed

	frontend and backend architecture	frontend and backend architecture
Week 4	<ul style="list-style-type: none"> • Set up of frontend architecture • Self learning React 	<ul style="list-style-type: none"> • Set up frontend architecture • Self learnt React
Week 5	<ul style="list-style-type: none"> • Complete mid fidelity Figma sketches and send first draft to client 	<ul style="list-style-type: none"> • Completed mid fidelity Figma sketches and sent first draft to client

2. Extent of Work Done

Week 1

Discuss group workflows

In the first week, I contributed to discussions on selecting a time for the weekly meetings. We talked about how some members are overseas so we needed to find a time that aligned for everyone. We settled on the communication channels, and meeting times, which is listed on the group contract.

Evidence - see Appendix 1

Created accounts and joined relevant groups

Created account on Atlassian, joined Jira, set up SSH for bitbucket, joined Slack

Evidence - see Appendix 2, 3, 4

Week 2

Met with client and understood client requirements

I attended the initial client meeting, we talked about the project expectations, organised weekly client meeting times, looked at the web portal sketch-up the client included in her presentation for us and discussed our understanding of it with the group.

Evidence - see Appendix 5, 6

Submitted group contract and deed poll

I filled out the group contract with the group, and collected and submitted all the deed polls on behalf of the group.

Evidence - see Appendix 7

Week 3

Low fidelity UI sketches

We brainstormed various ways we could implement the UI. We first sketched out the user flow, and then sketched a few iterations of what the UI could look like, in accordance to the user needs.

Evidence - see appendix 8

Research of architecture

We decided to go with a Flask backend and React as the frontend. I did not know how to combine the frontend with the backend, so I did some research into how the project should be structured. The article which I decided to follow is shown below as evidence.

https://dev.to/dev_elie/connecting-a-react-frontend-to-a-flask-backend-h1o

Week 4

Set up of frontend architecture

Set up the frontend architecture by building a Create-React-App project inside the src directory. Used node package manager to install TailwindCSS onto our react project.

Evidence - see appendix 9

Self learning react

Learned React to a deeper extent by using Udemy tutorials found online. Learned about features in React such as UseEffect, custom hooks, asynchronous API calls, state management.

Evidence - see appendix 10

Week 5

Mid fidelity sketch

Used Figma to create mid fidelity prototype sketches to send to the client. Contains a few different UI frames to show the various states of user interaction. We then sent the email to the client for confirmation. The next step will be to develop usability tests for the client before this week's client meeting.

Evidence - see appendix 11

3. Quality of Technical Work Done and Other XP principles

3.1 Quality of technical work

Because we are still in the process of developing the UI, and also learning about the technologies needed to build the UI, there has been no significant coding done, and hence there has not been the need to test code and check code against our requirements.

3.2 Other XP Principles

No code yet for the frontend, mostly working on UI, but focus on requirements gathering and planning, so there is nothing in the frontend department yet in terms of processes such as feedback driven development. In terms of requirements gathering, we have been meeting with the client on a regular basis, and we will be communicating more with the client to perform usability tests with the UI (prototyped version).

Once the UI is finalised, then sprints will begin to start building out the user interface, and XP principles will be more relevant.

4. Other contributions to group processes

Report Writing

- Contributed to the week 5 progressive report with own part
- For the week 6 group report, contributed the following parts
 - Wrote user stories regarding web portal in section 3.1
 - Wrote part of the overview in section 4.4.1
 - Wrote about the frontend testing procedures in section 4.4.2
 - Wrote about the proposed frontend architecture in section 5
 - Wrote about the tools chosen and why for the frontend components in section 6.1
 - Listed evidence of use of frontend tools in section 6.4
 - Wrote about the usage of React and Product Design tools in the context of domain knowledge in section 7
- Contributed to the presentation for the frontend slides

Evidence - see appendix 12

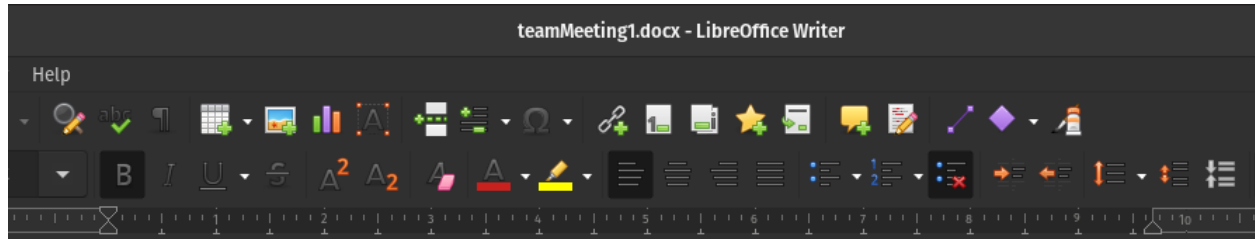
Submission of deed poll and group contract on behalf of members

- Discussed group contract details and wrote the group contract up on behalf of members
- Collected all the deed polls on behalf of members, check that they were all signed correctly and with witnesses, submitted for everyone.

Evidence - see appendix 7

Appendix

Appendix 1



Absent

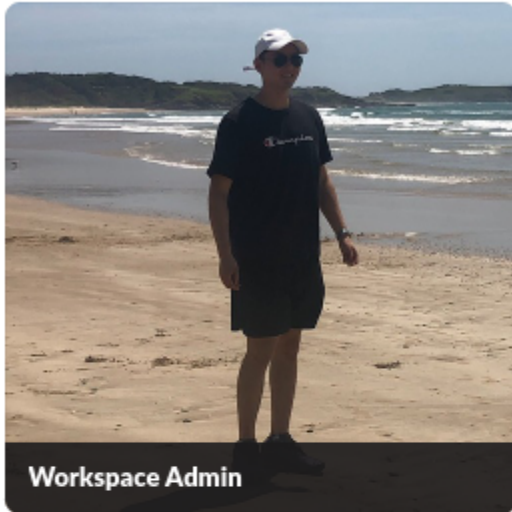
#	Agenda Item	Description/ Comments	Decision/Action	Who?	Items for escalation
1	What has been completed?	<ul style="list-style-type: none">- Created BitBucket- Created Slack- Organise team availability- Organise weekly team meetings- Organise weekly client meetings- Create initial slack channels- Assign team roles for the first 4 weeks- Discuss repo rules- Create Jira- Link Jira to BitBucket- Start project scope document			

Team name | DATE

Meeting minutes		[DATE]			
2	What is in progress?	<ul style="list-style-type: none">- Project scope document- Deed poll- Team contract			
3	What is working well?	<ul style="list-style-type: none">- Creation of BitBucket- Creation of Slack- Creation of Jira- Role assignment- Future meeting organisation			
4	What needs improvement?	<ul style="list-style-type: none">- Team fully understanding their roles and responsibilities within the group			
5	Reminders	<ul style="list-style-type: none">- Finish all documents that need to be submitted next week			
6	What needs to be completed before the next meeting?	<ul style="list-style-type: none">- Finish deed poll- Finish team contract- Get majority of group scope finalised			

Appendix 2


Profile




Alex Lin

[Edit](#)

[+ Add name pronunciation](#)

 Active, notifications snoozed

 11:30 PM local time

Set a status



Contact Information

[Edit](#)

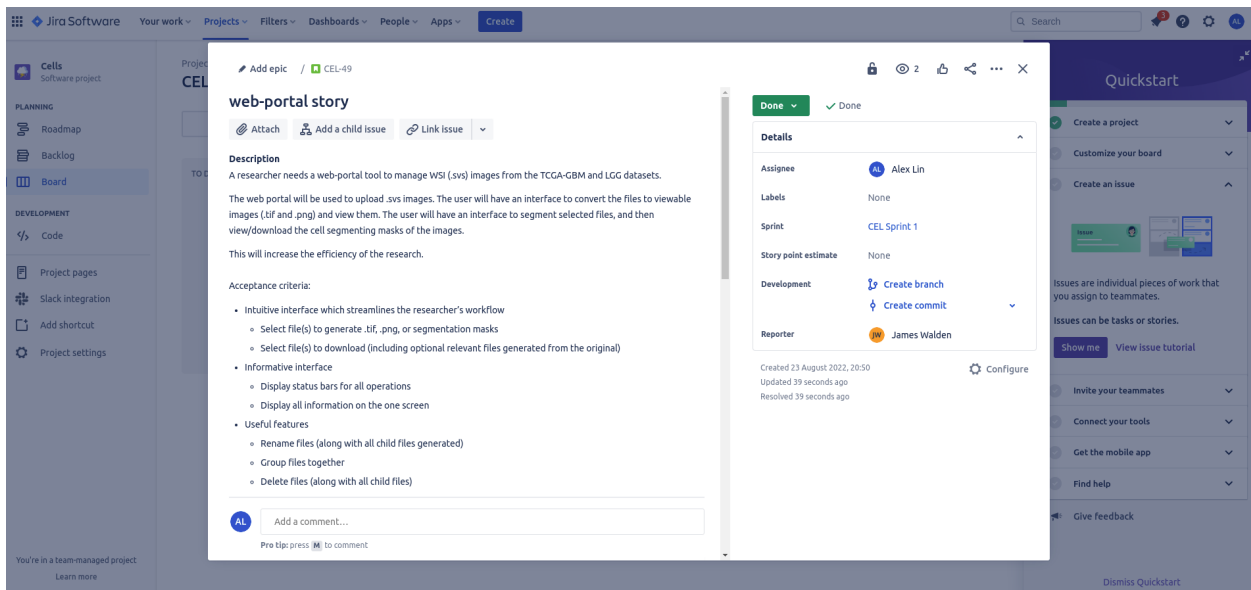


Email Address
alex.lin9991@gmail.com



Phone
[+ Add Phone](#)

Appendix 3



Appendix 4

SSH keys

Use SSH to avoid password prompts when you push code to Bitbucket. Learn how to [generate an SSH key](#).

Add key		
Key	Added	Last used
alex	2022-08-25	2022-09-05

Appendix 5

clientMeeting1.docx - LibreOffice Writer

FileEditFormatToolsHelp

pt

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100

Time: 2:30pm-3:30pm

Attendees: Gorjan, Tharen, Hongjia, Haeata, Jamie, Alex, Nicholas

Absent: James

#	Agenda Item	Description/ Comments	Decision/Action	Who?	Items for escalation
1	What has been completed?	<ul style="list-style-type: none">- Discussion of project expectations- Create weekly meeting time with client- Analyse information found on website and what to do with it- Discuss the database and its importance			
2	What is in progress?	<ul style="list-style-type: none">- Creating the group charter- Specify colleague roles- Do further research on segmentation			
3	What is working well?	<ul style="list-style-type: none">- Communication between colleagues- Communication with			

Team name

DATE

Meeting minutes		DATE			
		client			
		<ul style="list-style-type: none">- Colleague knowledge on cancer cells and segmentations algorithms			
4	What needs improvement?				
5	Reminders	<ul style="list-style-type: none">- Backend is the main priority (find the cancer cells) if we finish early then work on the front end but it is not a big worry			
6	What needs to be completed before the next meeting?	<ul style="list-style-type: none">- Check if image has already been labelled on the website- Download image if it already exists			
***	****				

Appendix 6

PowerPoint Presentation
powerpoint.pdf

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-

Upload

.svs to img

Segmentation

Downloadimg

Downloadlabels

Downloadlabelled imgs

Download all

Total data:
GBM case: 602
GBM Slice:

LGG case: 516
LGG Slice:

Chart Title

Category	Series 1	Series 2
Category 1	4.5	2.5
Category 2	2.5	4.5

Appendix 7

Group Contract W2_5 and Deed Poll

0 Possible Points

Due: Mon Aug 15, 2022 23:59

Attempt 1

SUBMITTED on Aug 15, 2022 19:37

Next Up: Review Feedback

Attempt 1 Score: N/A

Add Comment

Discipline) Rule 2016.

File Name	Size	
heatea.pdf	55.8 KB	✓
roy.pdf	151 KB	✓
alex.pdf	72.5 KB	✓
gorjan.pdf	204 KB	✓
jamie.pdf	242 KB	✓
nick.pdf	142 KB	✓
tharen_sl...deed.pdf	518 KB	✓
group-contract.pdf	644 KB	✓
james.pdf	99.6 KB	✓

Appendix 8



Appendix 9

glioblastoma_processing / web-portal				
Name	Size	Last commit	Message	
..				
public		yesterday	feat: react app	
src		yesterday	feat: src directory cleanup	
.gitignore	310 B	yesterday	feat: react app	
README.md	3.28 KB	yesterday	feat: react app	
package-lock.json	1.13 MB	yesterday	feat: react app	
package.json	813 B	yesterday	feat: react app	

README.md

Getting Started with Create React App

This project was bootstrapped with [Create React App](#).

Available Scripts

In the project directory, you can run:

```
npm start
```

Runs the app in the development mode.\ Open <http://localhost:3000> to view it in your browser.

Appendix 10

udemy

React - The Complete Guide (incl Hooks, React Router, Redux)

Your progress

Share

EXPLORER

App.js

NewTask.js

use-http.js

REACT-COMPLETE-GUIDE

task-form.js

TaskForm.mod...

Tasks

TaskItem.js

TaskItem.mod...

Tasks.js

Tasks.module...

UI

hooks

use-http.js

index.css

index.js

eslintcache

gitignore

package-lock.json

OUTLINE

Timeline

0:03 / 7:44

App.js

App

import NewTask from './components/NewTask/NewTask';

function App() {

const [isLoading, setIsLoading] = useState(false);

const [error, setError] = useState(null);

const [tasks, setTasks] = useState([]);

const fetchTasks = async () => {

setIsLoading(true);

setError(null);

try {

const response = await fetch('https://react-http-6b4a6.firebaseio.com/tasks.json');

};

if (!response.ok) {

throw new Error('Request failed!');

}

}

Note that the development build is not optimized.

to create a production build, use npm run build.

TERMINAL

PROBLEMS

OUTPUT

node

nanakann lenn

Overview

Q&A

Notes

Announcements

Reviews

Learning tools

Schedule learning time

Learning a little each day adds up. Research shows that students who make learning a habit are more likely to reach their goals. Set time aside to learn and get reminders using your learning scheduler.

Get started

Dismiss

Course content

Section 15: Building Custom React Hooks

11 / 11 | 2min

186. Module Introduction

1min

187. What are "Custom Hooks"?

2min

188. Creating a Custom React Hook Function

7min

189. Using Custom Hooks

5min

190. Configuring Custom Hooks

6min

191. Onwards To A More Realistic Example

7min

192. Building a Custom Http Hook

9min

193. Using the Custom Http Hook

8min

194. Adjusting the Custom Hook Logic

9min

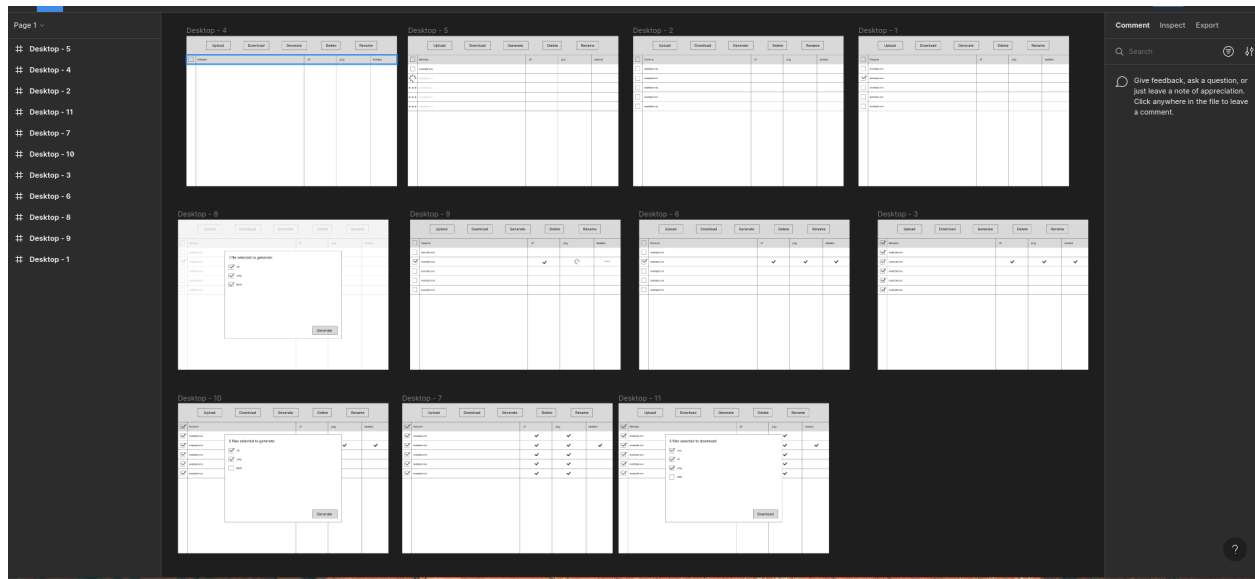
195. Using The Custom Hook In More Components

9min

196. Module Resources

1min

Appendix 11



Appendix 12

