

2023

Learning Summary Report



SIT782 – Team Project

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Redback Operations
5/24/2023

Self-Assessment Details

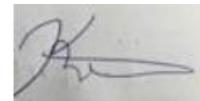
The following checklists provide an overview of my self-assessment for this unit.

	Pass (D)	Credit (C)	Distinction (B)	High Distinction (A)
Self-Assessment				✓

Declaration

I declare that this portfolio is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: **Ella Zarandi**

A handwritten signature in black ink, appearing to read "Ella Zarandi".

Portfolio Overview

I believe that I have demonstrated an outstanding leadership participation by creating positive and professional working environment and collaboration and inspiring others to do their best,

Also I have applied a wide range of technical participation, through the key projects across the company's different teams.

Through this portfolio I have included my work which demonstrates that I have achieved all Unit Learning Outcomes for SIT782 Team Project B, to a HD level.

Reflection

The most important things I learnt:

Leadership Achievements

Working as the Redback company leader, provided me with the opportunity to demonstrate and boost my leadership skills,

I believe as the company leader I demonstrated an effective leadership skills to the company to create a positive work environment, where everyone felt supported and motivated.

At all the stage I made sure that I provided clear direction and guidance to members to increase the efficiency and productivity across the company.

I performed the necessary skills and knowledge to make decisions and solve problems effectively.

Here is a List of my leadership achievements

- *Conducted an effective recruiting and On-boarding process, with the result of 65 students were integrated into the company.*
 - *Prepared and Presented the recruitment presentation to provide juniors information about each teams, projects and the tech stacks, to be able to pick the right teams/projects to join,*
 - *collecting information from the students to be able to position them within the company based on their skills and capabilities*
 - *Run a company wide meeting and organised the teams and established the leadership*
 - *Sat clear expectations for team members*
 - *Set up access for members to their required tools and platforms*
 - *Made sure all students were completely settled by end of week three and have their roles and tasks assigned*
 - *Creating Onboarding reports*
- *Planning out projects and objectives for the company*
- *Encouraged participation in planning and task assigning,*
- *Establishing the company structure and Projects Overview*
- *Creating projects documentation (Project overview, goals and objectives)*
- *Assigned tasks and roles to students*
- *Scope the projects and sprint planning to set timeframes and goals*
- *Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines*

- *Organizing and running the meetings, events and agendas and recording the decisions*
- *Sorted out access for members to their required tools*
- *Training and provided resources*
- *Sat the “Redback gmail address” as admin for Github, to make it easier for the next leader to use that to set permissions.*
- *Encouraged team collaboration and communication*
- *Ran regular team meeting*
- *Providing 1:1 support to the leaders and team members, to be sure everyone is on track*
- *Created worklog for IOT team and provided other teams with a desined worklog to modify and use for their teams.*
- *Merged two teams to ensure consistency in work.*
- *Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team*
- *Monitoring and evaluating the project progress across the company, address potential issues and made sure the deadlines are met*
- *Measure and report on project's performance using Tableau and Excel*
- *Act as the point of contact for all participants*
- *Order resources, like equipment and softwares*
- *Providing support to and meeting with IOT student from “shadow program”*
- *Preparing presentation's slides and running the presentations*
- *Promoted communication across the company*

1- *Organized and run the meetings and events, created agendas and recorded the decisions.*

The meeting ran in Redback Operations were as below:

- *Weekly leadership meetings,*
- *Weekly team meetings,*
- *Weekly meetings with Directors,*
- *1:1 meetings to able people to bring their issues up to resolve*

2- *Providing 1:1 support to the leaders and team members, to be sure everyone is on track*

3- *Keep track of all teams progress through our meeting and chat channels to stablish team's work flew report, to pass it to the directors in our weekly meetings*

4- *Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.*

5- Scheduled meeting's time based on everyone's availability and encouraged attendance to the meetings

6- Kept track of all projects' progress and teams' workflow through our weekly leadership meeting to establish report, to pass it to the directors in our weekly meetings

- Encouraged everyone to bring up the problems they are facing to (through 1:1 meetings or direct texts) to seek for the solutions and support
- Provide access to required data to all teams
- Provided guidance to the team members with their Capstone tasks
- To support the leaders with their project planning process, I conducted a deep research about the company projects' status and came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features to the company's products.
- Provided support, guides, suggestions and feedback to leaders and students at the time they were working on the company Reports, such as:
 - Company structure and objectives
 - Company progress report
 - Company handover document
- Encouraged up-skilling and learn about company through following resources
 - Studied through the handover document,
 - Conducted meetings with leaders, unit chairs, Capstone support staff and directors
 - Learned through the GitHub
 - Went through resources accessible in the Team Chat channels
 - Referred to the last Trimester Trello boards
- Locate the stored projects, resources and collected data and shared with other members based on their project's requirements
- Created step by step instruction about updating the local cloned codes from GitHub and shared it into the Ms Team
[How to update your local cloned file](#)
- Created an introduction about our data pipeline and data dictionary, and shared into Ms Team
[Link to access to the files though Ms Team](#)
- Introduction to CMS created and placed in Ms Team
[Link to the File](#)
- An step by step instruction about "How to access the GCP project" created and placed in the Ms Team and also shared in chat channels
[Link to the file](#)

- ***Self-management***

As self-management is an important leadership quality, so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as below:

- *Evaluating my technical and leadership knowledge and skills and put a lot of effort into researches and up-skilling*
- *Performing a remarkable planning and organizational skills*
 - *Time management*
 - *Working independently and seeked for support and advice when required*
 - *Outline project goals, based on the status of the projects and the member's capabilities*
- *Stress management*
- *Creating to-do list and strict deadlines for team members and myself*
- *Evaluating self-progress toward the goals*
- *Used the provided feedback to improve my progress*
- *Problem solving and Decision making*
- *Monitoring and evaluating the company progress*

Company stability

Below is a list that indicates how I applied and improved Company stability, across the company:

- *All projects were tested and created showcase video to make sure that they are in the working order.*
- *Included the status of the projects in the handover doc,*
- *New ideas and goals were added and all issues are documented in the "open issue" section*
- *prevent data loss*
 - *Backed up files in different locations,*
 - *including the codes into the handover docs*
 - *providing links to the GitHub Repos*
 - *Cleaning up the Team files and folders and added important files there*
 - *Added extra data store for VR Repo, so now we do have all the teams projects and data stored into the GitHub*
- *Sorted out remote access to the pi*
The only problem is that whenever the PI unplugged, the IP would change which make it impossible to use the VPN to get access to the pi, when we don't have the new IP address, to solve that I suggested to assign a static IP to the PI,
- *Introduced a list of capable students that possibly could be great candidates to carry out the teams' leadership roles for the next Trimester.*

Technical Achievements

To showcase my knowledge and technical skills, while worked with Redback Operation company though Trimester 1 2023, I have participated in the following projects:

Fitness Tracker Project:

The aim of this project is to implement a foundational tool to collect data from users and their workouts to be able to provide them with a regular fitness routines and workouts to make their exercise performance more effective.

In this project the data set which has been used, called “Master_Data” which is accessible through BigQuery.

This project has different components as bellow:

- ❖ Data Dictionary
- ❖ Data Pipeline
- ❖ BMI Calculator
- ❖ Feedback Analysis
- ❖ The Corporate Reporting

1- Data Dictionary

Established a data dictionary and placed in GitHub to allow others to understand the data variable names and values.

Fitness data master data set

Fields	
Distance	<i>show distance in either miles/feet (statute units) or kilometers/meters (metric units)</i>
Enhanced_altitude/Altitude	<i>To determine the rider’s elevation which means the total number of feet the rider climb in a ride)</i> <i>This information is recorded during the activity and is used to report elevation related information in Garmin Connect.</i>
Ascent	<i>A climb or walk to the summit of a mountain or hill/an</i>

	<i>instance of rising or moving up through the air.</i>
Total Ascent	<i>A total of elevation gain which means the total number of feet the rider climb in a ride</i>
Average Ascent	<i>Provides an average of all ascents recorded during an activity</i>
Maximum Elevation	<i>Provides the highest elevation achieved.</i>
Grade	<i>Data field for Garmin devices that calculates the slope (or grade) of the hill users are walking on</i>
Calories	<i>This is the total of active and resting calories that are calculated during a recorded activity on your device (from the moment that you start the timer for the activity to the moment you stop the timer)</i>
Speed/Distance Algorithm:	<i>This is the most basic method of determining calories. It is represented in calories/Kcal.</i>
Speed/Enhanced Speed:	<i>It is distance by total time sent on an activity. It is calculated in m/sec or m/h. If the values of speed are too large to be fit in speed, then enhanced speed is used.</i>
Heart_rate:	<i>heart rate values can be set as absolute or relative values. Absolute values represent beats per minute (bpm) for heart rate, or watts for power.</i>
Temperature:	<i>The Temperature widget will display the ambient air temperature near the barometric altimeter port. This reading can be affected by body heat. It is represented in Fahrenheit.</i>
Cadence	<i>The cadence fields in a FIT file represent RPMs. For cycling 1 RPM equals one full rotation of the cranks Cadence in cycling is the number of revolutions your pedals make per minute as you ride. revolution per minute(RPM)</i>
Power	<i>Power values can be set as absolute or relative values. Absolute values represent watts for power.</i>
Left_right_balance	<i>It shows as a percentage the power separately put out by the left and right leg.</i>
Session_ID	<i>It is unique id generated for each session performed by user</i>
User_ID	<i>It is the unique ID generated for every user</i>
Weight	<i>It gives the weight of the person in kgs</i>
Gender	<i>It Shows gender of registered person of the device</i>
FTP	<i>Functional Threshold Power (FTP) is a measurement from power meters. It is the highest power level you can maintain</i>

	<i>for one hour without growing fatigued. FTP is beneficial because it provides an outlook on performance ability.</i>
Age	<i>Available on select Garmin watches, Fitness Age is an estimate of how fit you are compared to your actual age. Compatible Garmin watches will measure your Fitness Age differently, depending on which device you have. Fitness age is an estimate of how fit you are compared to your actual age</i>
Product_Name	<i>It describes the product used for recording the activity.</i>

Link to the Wahoo Introduction

<https://cloud-api.wahooligan.com/#introduction>

[Link to GitHub](#)

[Link to Ms Team](#)

2- Data Pipeline

Conducted research about the data pipeline in Redback Company and provided a copy for other members in GitHub and MS Team,

The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.

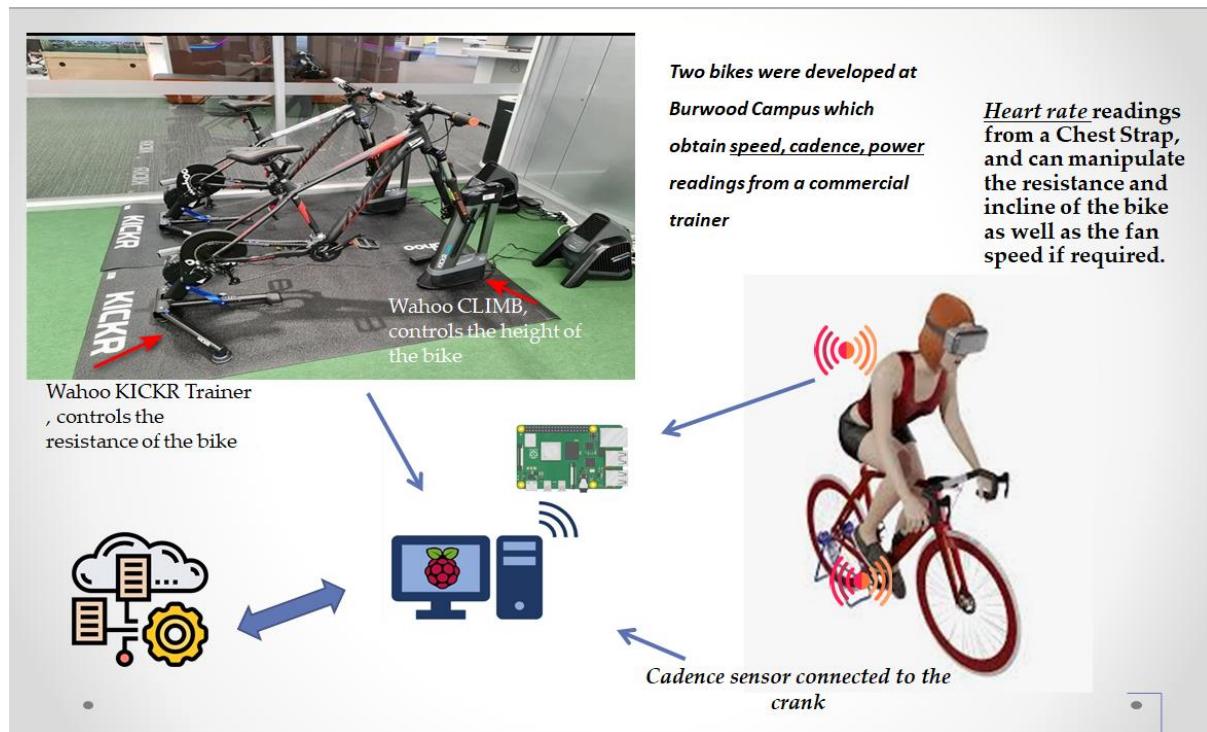
Here is the result of my research:

The Data Origin and Data Pipeline in Redback Company:

At Redback company we utilize “Contact Management System” (CMS). The data is received from bike’s sensors (Whaoo) via Bluetooth using a Raspberry Pi and submitted via MQTT to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python to get data from riders and sending it off to the mobile app to get used.

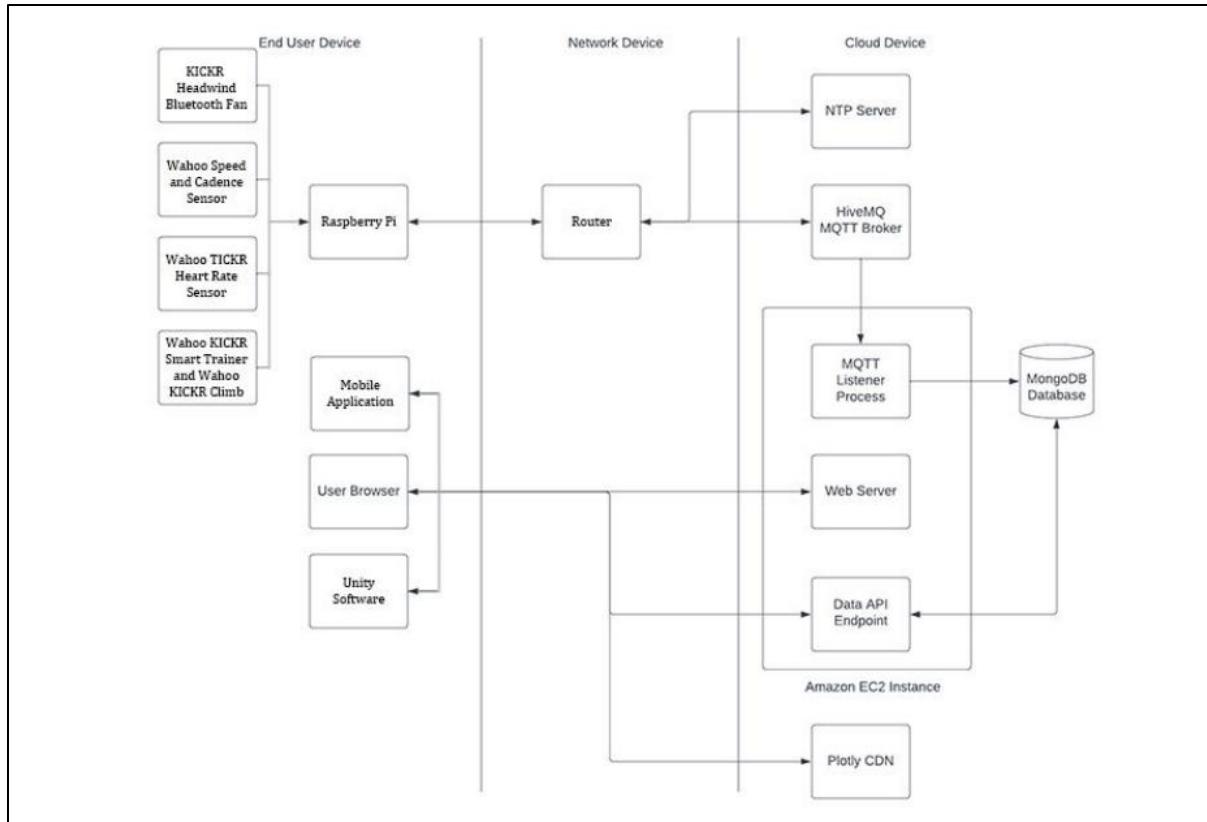
The protocol used for this data transport mechanism used by drivers is MQTT.



The CMS is currently hosted at <http://34.129.10.237> that is under the company owned GCP account.

The dashboard shows an overview of the data collected and displays the recent stored sensors data in real time (if there's any activity using the mobile cycling fitness app), the bikes page can be used to set up additional bikes, the devices page used to provide details for additional sensors, and device data used to search or edit the collected data.

UML Diagram



For more detail see the Sensor Architecture report in GitHub, under Tri 3 2023 folder

[Link to Ms Team](#)

3- BMI Calculator

A BMI Calculator has been implemented using python, as we don't have the height field in our current database to be able to calculate the BMI, so on the model that I've implemented it would ask the user to input their height and weight and then it would calculate the BMI.

Summary of BMI and the benefits and limitations:

BMI(Body Mass Index) is one of the most common ways of grouping people by their weight.

A History of BMI:

BMI was first developed in the mid-1800s by a polymath called Adolf Quetelet. The purpose was to measure people's weight in relation to their height, by dividing their weight in KG by their height in meters squared. Scientists have created BMI categories to group people according to how far their weigh is from the norm for their height.

The categories of BMI:

- *BMI less than 16, classified as “Severely Underweight”,*
- *BMI 16 to <18.5, classified as “Underweight” range.*
- *BMI 18.5 to <25, classified as “Healthy weight” range.*
- *BMI 25.0 to <30, classified as “Overweight” range.*
- *BMI 30.0 or higher, falls within the “Obesity” range.*

Benefits:

- *Easy to measure,*
- *No expensive equipment needed,*
- *It is quick and cheap to work out,*

Limitations:

- *BMI is not a way of diagnosing body fat,*
- *Categorizing people based on their BMI could lead to weight stigma,*
- *BMI is not an appropriate measure for children*

The following code will receive "Height" and "Weight" from user to calculate and round the BMI to 2 decimal places and shows the user's BMI category using a function called "BMI". Also this code will check the entered values for "Height" and "Weight" and if it's not valid, it will respond "Incorrect Data"

```
In [77]: h = float(input('Enter height in Meter: '))
if (h >= 1.0 and h <= 2.5):
    height = h
else:
    raise Exception("Incorrect Data, Please enter your height in Meter ")

w = float(input('Enter weight in KG: '))
if (w >= 10 and w <= 1000):
    weight = w
else:
    print("Incorrect Data, Please enter your weight in KG ")

def BMI(height, weight):  #BMI Function to calculate BMI
    bmi = round(weight/(height**2), 2)

    if (bmi < 16):
        return 'Severely Underweight', bmi

    elif (bmi >= 16 and bmi < 18.5):
        return 'Underweight', bmi

    elif (bmi >= 18.5 and bmi < 25):
        return 'Healthy', bmi

    elif (bmi >= 25 and bmi < 30):
        return 'Overweight', bmi

    elif (bmi >= 30):
        return 'Obese', bmi

calculation, bmi = BMI(height, weight)
print('Your BMI is: {} which is {}, the normal BMI is between 18.5 to 25'.format(bmi, calculation))

Enter height in Meter: 1.70
Enter weight in KG: 60

Your BMI is: 20.76 which is Healthy, the normal BMI is between 18.5 to 25
```

After you run the code, it will ask for height and weight



```
Enter height in Meter: 1.6
Enter weight in KG: 58
```

And then it will calculate and return the BMI,

```
-----
Your BMI is: 22.66 which is Healthy, the normal BMI is between 18.5 to 25
```

[Link to GitHub](#)

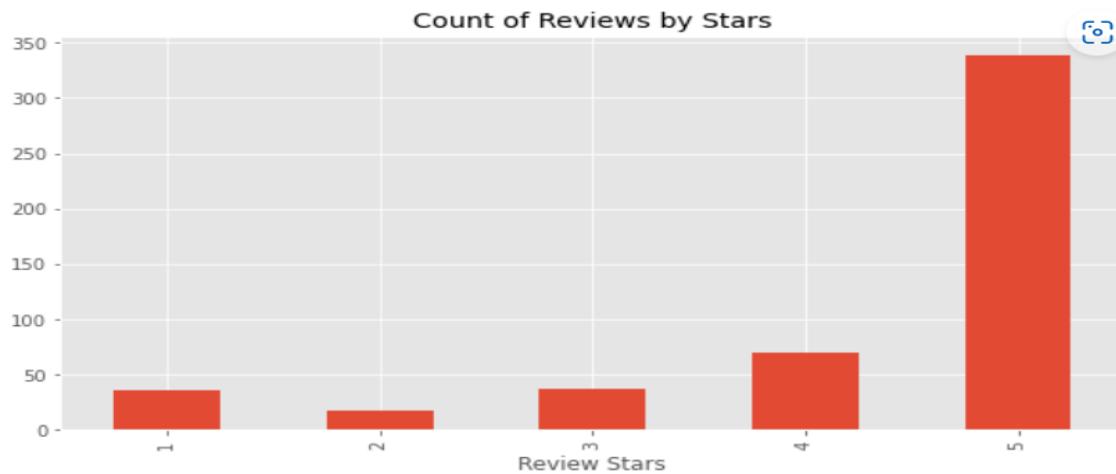
4- Feedback Analysis

This project aims to train and prepare a "feedback analysis model" to be used at the time that we would have the "feedback" feature for any of our products.

As currently we don't have a "Feedback" feature in our products, so I will be using an "Amazon food reviews and rating" dataset in csv format (which are text reviews and rating the food out of five stars)

- *The Vader Model is developed*
- *Ran NLTK work tokenizer to splits the feedbacks*
- *The required Tokens are generated*
- *Sentiment scores are generated and added to the current dataset*

The Python has been used to create the Model:



- **the plot we can see frome that most of the reviews are 5 stars**

```
In [83]: # Test 2
sia.polarity_scores('This is the worst thing ever.')
Out[83]: {'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

In [4]: sia.polarity_scores('This is the best thing ever.')
Out[4]: {'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

Below indicates the project progress steps and the whole Python code:

- *The required libraries imported:*

Jupyter Feedback Analysis Last Checkpoint: 04/21/2023 (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help

Not Trusted | Python 3 (ipykernel) C

```
In [ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

plt.style.use('ggplot')

import nltk
nltk.download()

showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

```
In [ ]: import nltk
nltk.download('maxent_ne_chunker')
```

```
In [ ]: import nltk
nltk.download('words')
```

```
In [28]: import nltk
nltk.download('vader_lexicon')

[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\ella\AppData\Roaming\nltk_data...
```

```
Out[28]: True
```

- *The data set imported*

```
In [17]: # Read in data
feedback = pd.read_csv('Reviews.csv')
feedback.head()
```

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	Great taffy	Great taffy at a great price. There was a wid...

```
In [ ]: feedback.shape
```

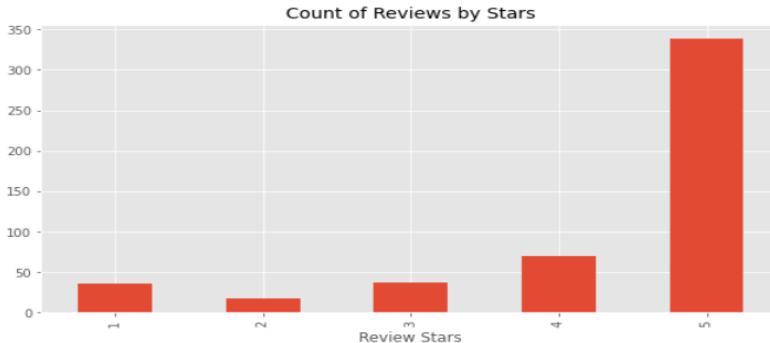
Ella Zarandi (222064699)

Out[18]:										
	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5 1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1 1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1		1	4 1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2 1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5 1350777600	Great taffy	Great taffy at a great price. There was a wid...

- Ran a Quick EDA to get an idea of what the data set looks like

Value count on Score column to see the number of times each score occurs

```
In [19]: feedback['Score'].value_counts().sort_index()  
Out[19]: 1    36  
2     18  
3     37  
4    70  
5   339  
Name: Score, dtype: int64  
  
In [20]: ax = feedback['Score'].value_counts().sort_index() \  
         .plot(kind='bar',  
                title='Count of Reviews by Stars',  
                figsize=(10, 5))  
ax.set_xlabel('Review Stars')  
plt.show()
```



From the plot we can see that most of the reviews are 5 stars

- Running NLTK work tokenizer to splits the sentence into the parts of each word in the sentence

```
ex = feedback['Text'][50]  
print(ex)  
  
This oatmeal is not good. Its mushy, soft, I don't like it. Quaker Oats is the way to go.
```

the result came back negative

```
tokens = nltk.word_tokenize(ex)
tokens

['This',
'oatmeal',
'is',
'not',
'good',
'.',
'It\'s',
'mushy',
',',
'soft',
',',
'I',
'do',
"n't",
'like',
'it',
'.',
'Quaker',
'Oats',
'is',
'the',
'way',
'to',
'go',
'.']
```

- ***Running the nltk pos tag for part of speech tagging***

```
speech_tagged = nltk.pos_tag(tokens)
speech_tagged[:10]

[('This', 'DT'),
('oatmeal', 'NN'),
('is', 'VBZ'),
('not', 'RB'),
('good', 'JJ'),
('.','.'), 
('It\'s', 'PRP$'),
('mushy', 'NN'),
(',',','), 
('soft', 'JJ')]
```

- ***Grouping the Tokens into chunks of text***

```
entities = nltk.chunk.ne_chunk(speech_tagged)
entities pprint()

(S
  This/DT
  oatmeal/NN
  is/VBZ
  not/RB
  good/JJ
  ./
  Its/PRP$ 
  mushy/NN
  ,/
  soft/JJ
  ,/
  I/PRP
  do/VBP
  n't/RB
  like/VB
  it/PRP
  ./
  (ORGANIZATION Quaker/NNP Oats/NNPS)
  is/VBZ
  the/DT
  way/NN
  to/T0
  go/VB
  ./.)
```

Implementing the Vader Model:

Vader Sentiment Scoring

VADER(Valence Aware Dictionary for Sentiment Reasoning) is an NLTK module that provides sentiment scores based on the words used. It is a rule-based sentiment analyzer in which the terms are generally labeled as per their semantic orientation as either positive or negative.

VADER has the advantage of assessing the sentiment of any given text without the need for previous training as we might have to for Machine Learning models. The result generated by VADER is a dictionary of 4 keys neg, neu, pos and compound: neg, neu, and pos meaning negative, neutral, and positive respectively.

This module uses a “bag of words” approach:

- Stop words are removed
- Each word scored and combined to a total score
- This model is not account for relationship between words

```
from nltk.sentiment import SentimentIntensityAnalyzer
from tqdm.notebook import tqdm

#sia is an created object of "Sentiment Intensity Analyzer"
sia = SentimentIntensityAnalyzer()
```

Testing our object

```
sia.polarity_scores('I am so happy!')
```

The result is: negative as zero, neutral point = 0.318 and positive point= 0.682, So this sentence is mostly positive

```
# Test 2
sia.polarity_scores('This is the worst thing ever.')
{'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

sia.polarity_scores('This is the best thing ever.')
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

The result is: negative point = 0.451, neutral point = 0.549 and positive point= 0 and compound: -0.6249 So this sentence is mostly Negative

```
# Running the sia on our tokens
sia.polarity_scores(ex)
{'neg': 0.22, 'neu': 0.78, 'pos': 0.0, 'compound': -0.5448}
```

The result is: negative point = 0.22, neutral point = 0.78 and positive point= 0 and compound: -0.5448 So this sentence is mostly Negative

Run the polarity score on the entire dataset, the result is a dictionary which stores the result of the below loop which each raw would

```
result = {}
for i, row in tqdm(feedback.iterrows(), total=len(feedback)):
    text = row['Text']
    myid = row['Id']
    result[myid] = sia.polarity_scores(text)

0% | 0/500 [00:00<?, ?it/s]
```

Here shows the result dictionary with each id that contain the scores of neg, neu, pos and compound which stored in a Panda data frame to make it easier to work with and displayed horizontally

	neg	neu	pos	compound
1	0.000	0.695	0.305	0.9441
2	0.138	0.862	0.000	-0.5664
3	0.091	0.754	0.155	0.8265
4	0.000	1.000	0.000	0.0000
5	0.000	0.552	0.448	0.9468
...
496	0.000	0.554	0.446	0.9725
497	0.059	0.799	0.142	0.7833
498	0.025	0.762	0.212	0.9848
499	0.041	0.904	0.055	0.1280
500	0.000	0.678	0.322	0.9811

500 rows × 4 columns

So now we have a data frame that has index which is the IDs and the four neg, neu, pos and compound fields, we call this result Vaders

```
#vaders.reset_index().rename(columns={'index': 'Id'})  
vaders["Id"] = feedback["Id"]  
#vaders.merge(feedback, how='Left')  
#vaders.columns  
  
vaders.columns  
Index(['neg', 'neu', 'pos', 'compound', 'Id'], dtype='object')  
  
vaders=vaders.merge(feedback, how='left')
```

Now we have sentiment score added to the original fields

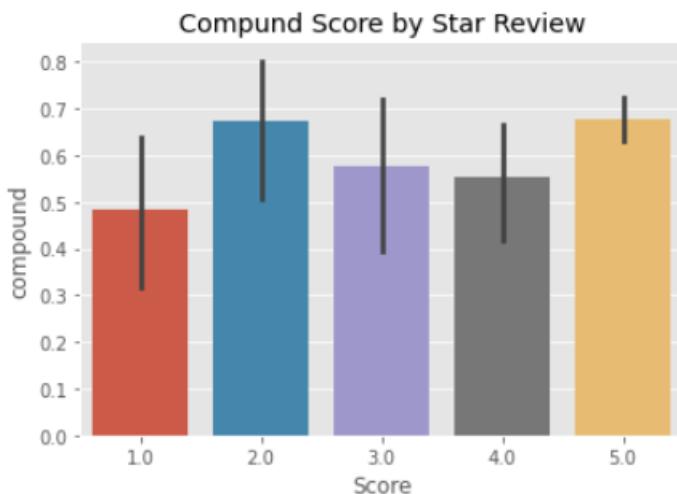
Ella Zarandi (222064699)

vaders.head()													
	neg	neu	pos	compound	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	
0	0.000	0.695	0.305	0.9441	2.0	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0.0	0.0	1.0	1.346976e+09	
1	0.138	0.862	0.000	-0.5664	3.0	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1.0	1.0	4.0	1.219018e+09	
2	0.091	0.754	0.155	0.8265	4.0	B000UA0QIQ	A395BORC6FGVXV	Karl	3.0	3.0	2.0	1.307923e+09	
3	0.000	1.000	0.000	0.0000	5.0	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0.0	0.0	5.0	1.350778e+09	
4	0.000	0.552	0.448	0.9468	6.0	B006K2ZZ7K	ADT0SRK1MGOEU	Twoapennything	0.0	0.0	4.0	1.342051e+09	

Plot VADER results

Runing the Plot on vaders' data by assigning x the score valuse which is the star review of the the person and then compound is going to be our y value and that's the negative to positive.

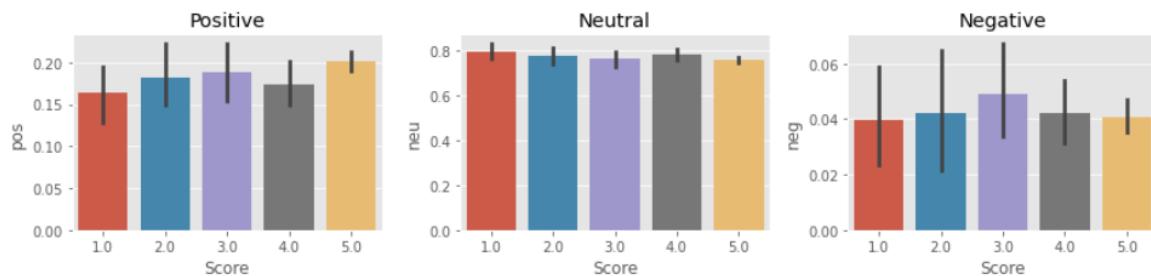
```
ax = sns.barplot(data=vaders, x='Score', y='compound')
ax.set_title('Compund Score by Star Review')
plt.show()
```



The plot shows that one star review has lower compound score and the five star view is higher

Running the Plot based on the positive neutral and negative scores

```
fig, axs = plt.subplots(1, 3, figsize=(12, 3))
sns.barplot(data=vaders, x='Score', y='pos', ax=axs[0])
sns.barplot(data=vaders, x='Score', y='neu', ax=axs[1])
sns.barplot(data=vaders, x='Score', y='neg', ax=axs[2])
axs[0].set_title('Positive')
axs[1].set_title('Neutral')
axs[2].set_title('Negative')
plt.tight_layout()
plt.show()
```



The plots confirm that our Vader Model is valuable in having the connection between the score of the text and sentiment score and it does relate to the actual rating review of the reviewers

[Link to GitHub:](#)

5- Fitness Summary Reporting

The aims of this project is to create the summary reports, using SQL queries on the “`fitness_data.master_data`” table accessible in the BigQuary.

In this project some dashboards designed using Tableau to visualize the user’s workouts reports

Summary Reports – All users

For the best measure of calories burned, the ELEMNT GPS devices series (including the ELEMNT, BOLT, ROAM, and RIVAL) and Wahoo Fitness app default to using calculations based on power output when a trainer or power meter are connected (if no direct power source is connected, heart rate will be used to calculate calories as described further below). Calories from power are calculated based on the following formula:

- $\text{Calorie rate} = (4.184\text{kJ}) * 0.239\text{GMR}$

In the calculation above, Kilo Joules (**kJ**) are measured from the trainer or power meter and multiplied by the Gross Metabolic Rate (**GMR**, an average of gross metabolic efficiency),

estimated at 23.9% since 1 Calorie is equal to 4.184kJ of work and the human body is about 24% efficient at burning calories.

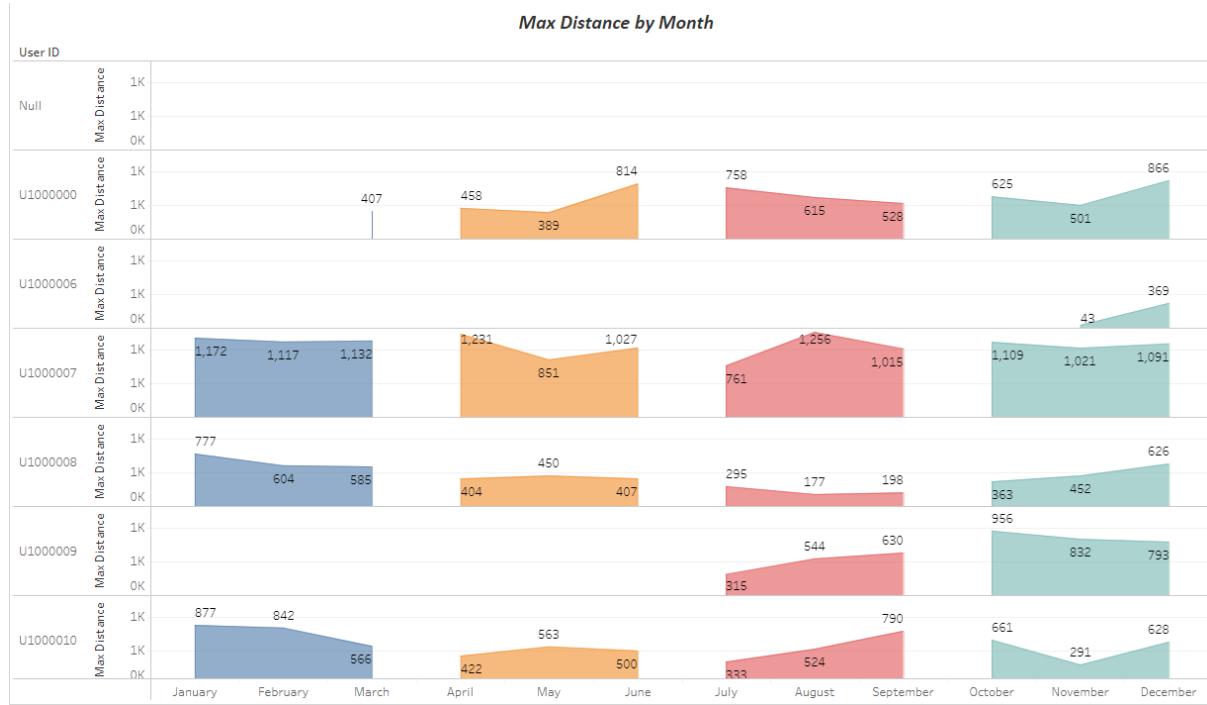
The MAX calories – By Month

```
SELECT DISTINCT EXTRACT(MONTH from date_AEST) AS month, userId, max(calories) as max_calories
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE calories IN
      (SELECT max(calories) as max_calories
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from date_AEST)
      )
GROUP BY userID, month
ORDER BY month
```

The MAX Distance – By Month

```
SELECT f.date_AEST, f.userId, max(f.distance) as max_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
inner join
      (SELECT s.userID, max(s.distance) as max_distance
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from s.date_AEST), s.userID
      )
ON f.userID = s.userID and
GROUP BY f.userID, date_AEST
```

Ella Zarandi (222064699)



Total Calories and Distance for all users by each date – 2021

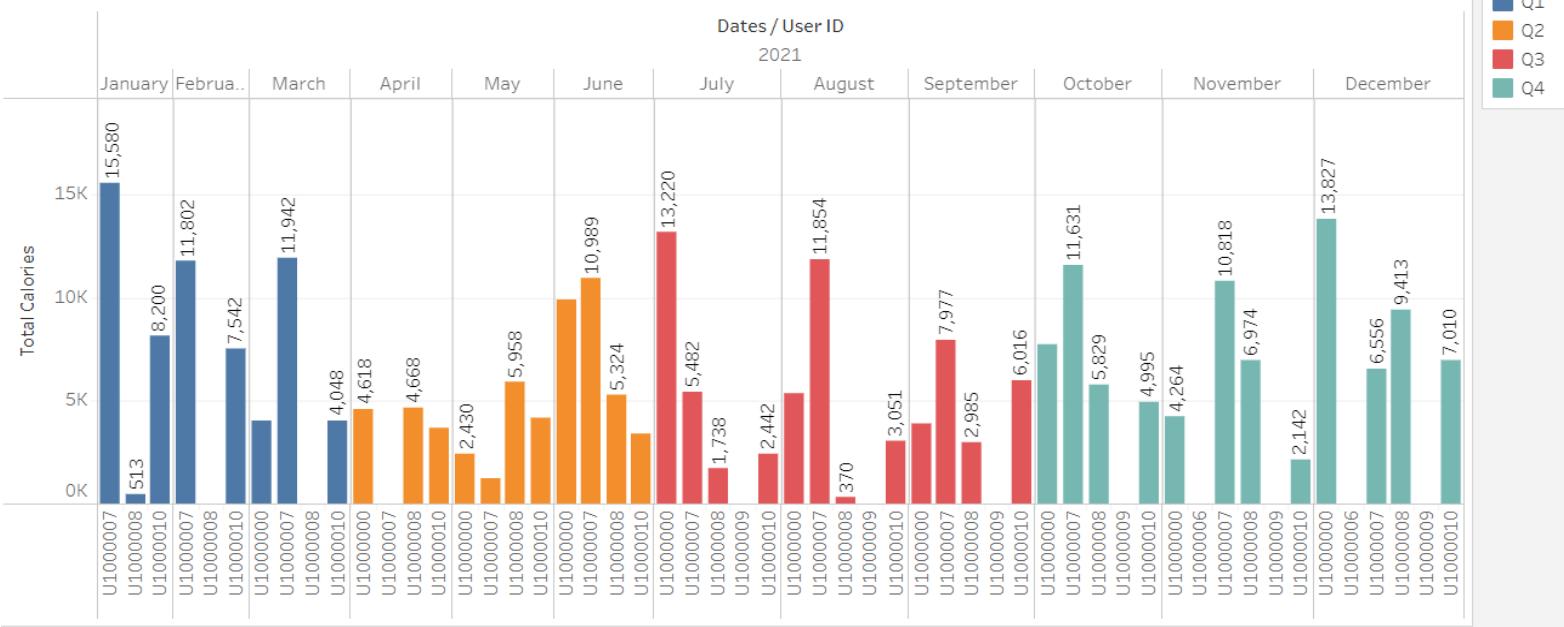
```

SELECT userID, date_AEST AS dates, Round(SUM(calories)/4.18) as total_calories,
       Round(SUM(distance)/1000)AS total_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31')

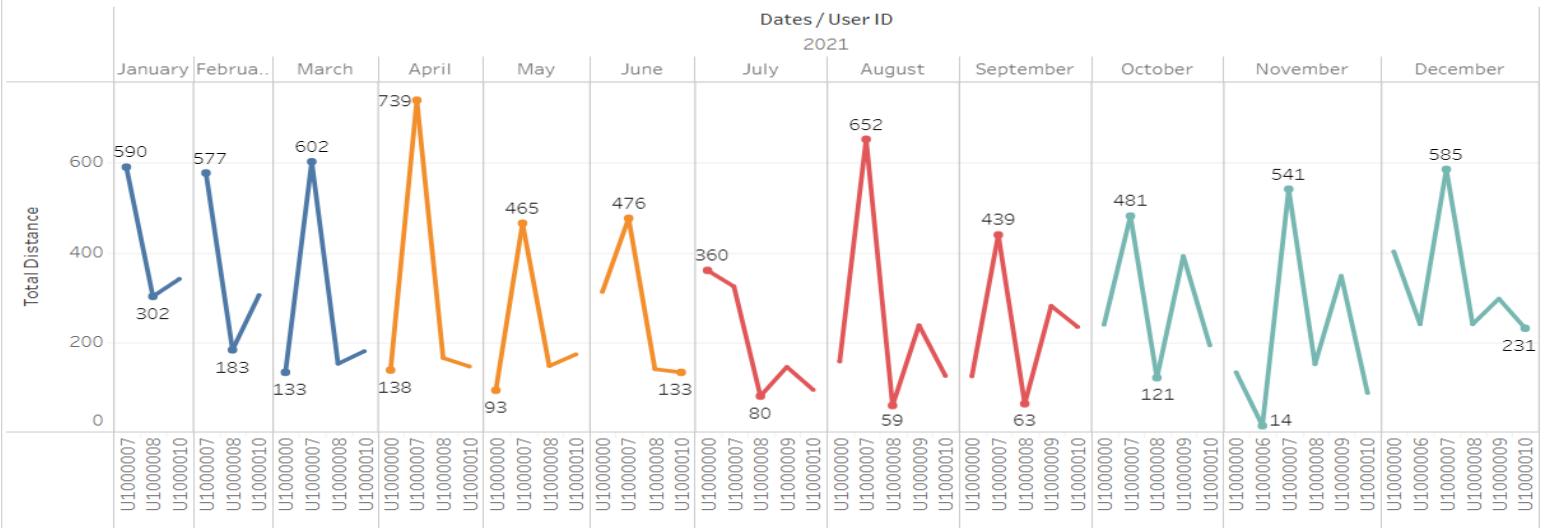
GROUP BY date_AEST, userID
ORDER BY date_AEST
    
```

Row	userID	dates	total_calories	total_distance
1	U1000007	2021-01-01	3293.0	66.0
2	U1000007	2021-01-02	3791.0	70.0
3	U1000010	2021-01-02	101.0	5.0
4	U1000007	2021-01-03	122.0	8.0
5	U1000007	2021-01-05	749.0	16.0
6	U1000010	2021-01-07	1308.0	54.0
7	U1000010	2021-01-08	77.0	4.0
8	U1000007	2021-01-08	1205.0	28.0
9	U1000008	2021-01-08	null	3.0
10	U1000010	2021-01-09	568.0	22.0
11	U1000007	2021-01-09	null	106.0
12	U1000008	2021-01-09	233.0	31.0
13	U1000008	2021-01-10	null	11.0
14	U1000007	2021-01-10	1291.0	49.0

Total Calories - All Users



Total Distance - All Users



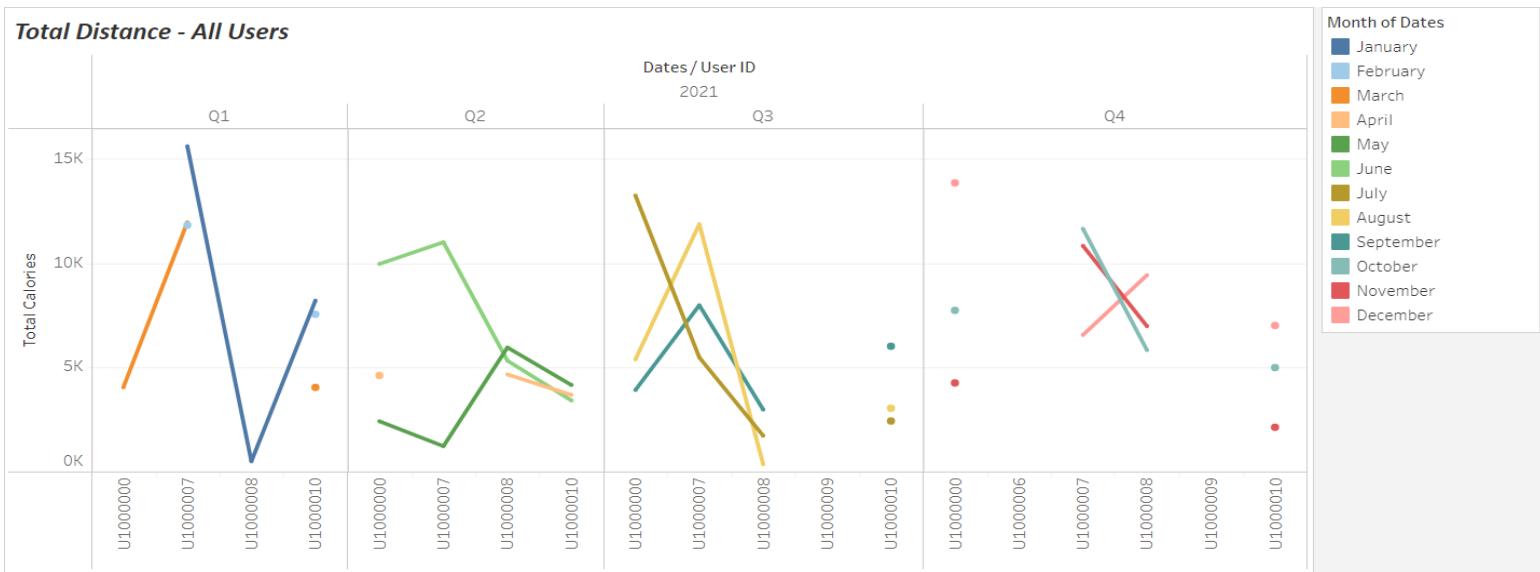
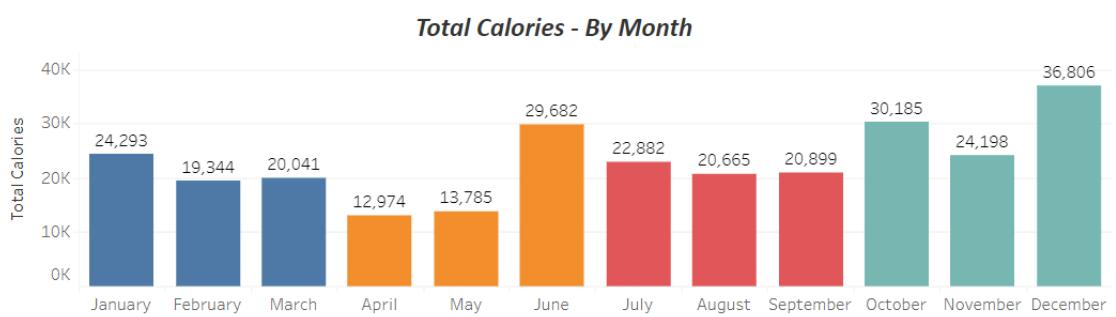
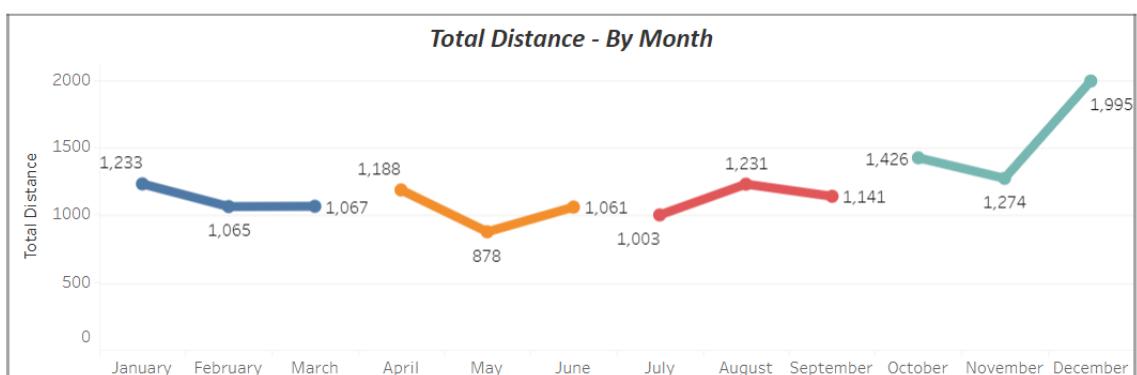


Tableau Dashboard - Total Report by Month (All Users)

Tracking Summary Report 2021 - All Users

Month of Dates	Total Calories	Total Distance
January	24,293	1,233
February	19,344	1,065
March	20,041	1,067
April	12,974	1,188
May	13,785	878
June	29,682	1,061
July	22,882	1,003
August	20,665	1,231
September	20,899	1,141
October	30,185	1,426
November	24,198	1,274
December	36,806	1,995



- Average, MAX and MIN distance and calories for all riders – By Month

```

SELECT
    EXTRACT(MONTH from date_AEST) AS month,
    round(AVG(calories)) as avg_calories,
    Round(AVG(distance))AS agv_distance,
    round(MAX(calories)) as max_calories,
    Round(MAX(distance))AS max_distance,
    round(MIN(calories)) as min_calories,
    Round(MIN(distance))AS min_distance,
    FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
```

```
WHERE date_AEST BETWEEN '2021-01-01' AND '2021-12-30'
```

```

GROUP BY month
ORDER BY month;
```

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**Monthly Calories and Distance Report - All Users
(Average, MAX and MIN)**

Month of d..	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0

Max and Min Distance by Month



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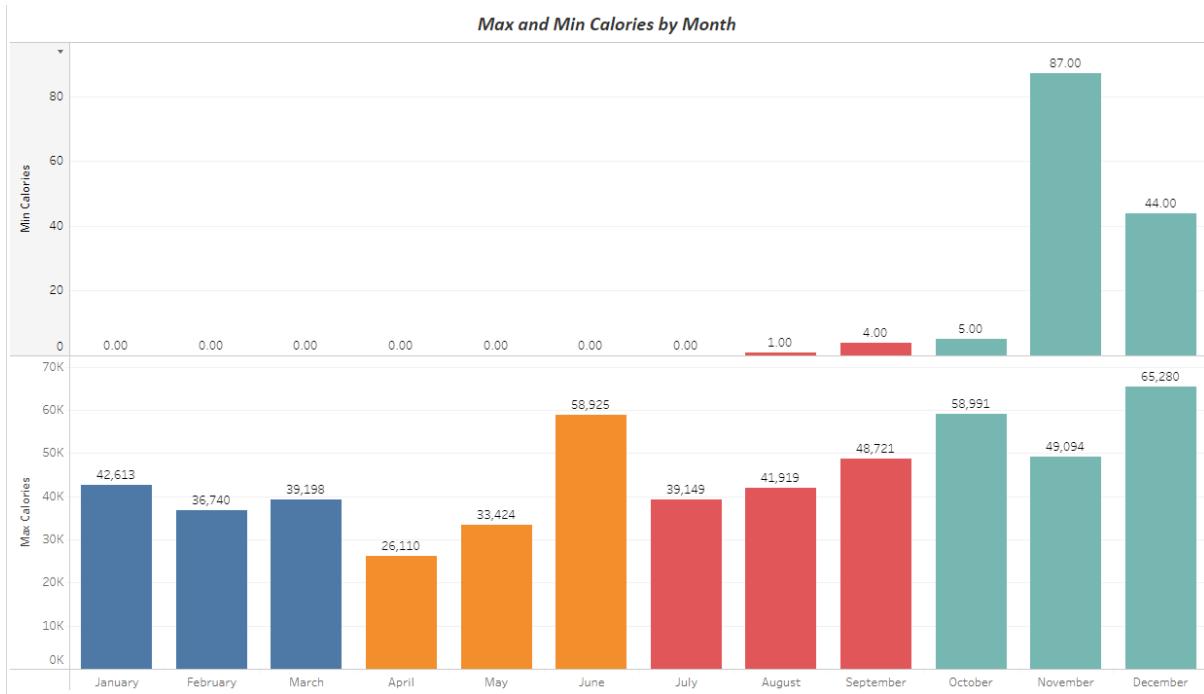


Tableau Dashboard - Monthly Calories and Distance Report

All Users (Average, MAX and MIN)



Summary Cycling Tracking 2021

Monthly Totals for each user:

The below query would calculate the Monthly total distance in KM, total calories and the total hours, for each users in 2021,

Calculation For User U1000000

```
SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18)   AS total_calories,
       Round(SUM(distance)/1000)   AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
  FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
 WHERE userID = "U1000000"
   and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
   and date_AEST
 GROUP BY month
 ORDER BY month;
```

month	total_calories	total_distance	total_hour
3	4050.0	136.0	13.0
4	4619.0	140.0	15.0
5	2429.0	92.0	14.0
6	9950.0	313.0	23.0
7	13220.0	362.0	23.0
8	5389.0	157.0	18.0
9	3920.0	124.0	15.0
10	7730.0	241.0	16.0
11	4264.0	133.0	14.0
12	13828.0	402.0	26.0

Total Calories - By Day

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268		651			
3		269		84	417			1,098				
4		114		159			276			69		
5				294			288			67		
6		292		219	313			113				
7			795		29		308		270			
8					29	633	93	2,172				
9					530	161			288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186			140	
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190				678		
17		1,407		788							1,976	
18	107					184	73					
19	490		28	984		165		359				
20	9		48	2,308					358			
21			351		950	554			27	593		
22		2	19	299		773	60	320	159	581		
23					215		300		284			
24		1,335					179	1,126	888	410		
25								179		563		
26	833	16			570	125		72			820	
27		27	320	830	35	342	184				3,106	
28		26				571		481	131		1,769	
29		46	202	355			67				1,694	
30	14	65		524			74		144		1,146	
31		481		157				1,525				

Calculation For User U1000007

```

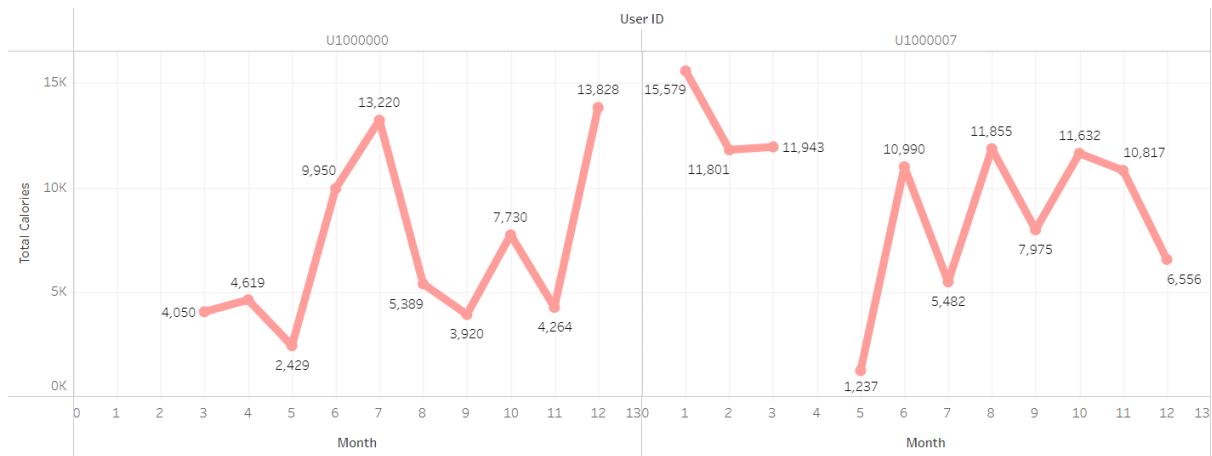
SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18) AS total_calories,
       Round(SUM(distance)/1000) AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE userID = "U1000007"
      and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
      and date_AEST
GROUP BY month
ORDER BY month;

```

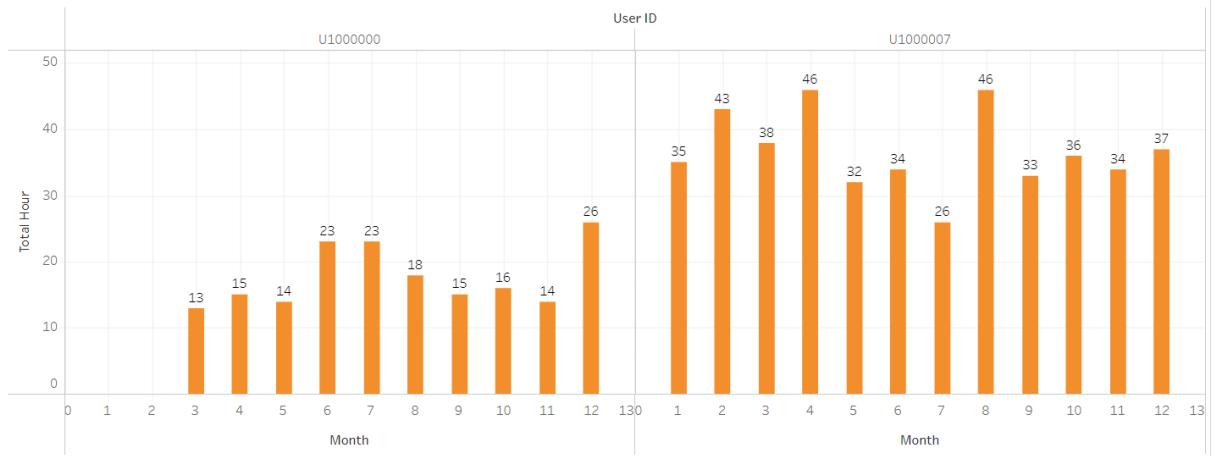
Ella Zarandi (222064699)

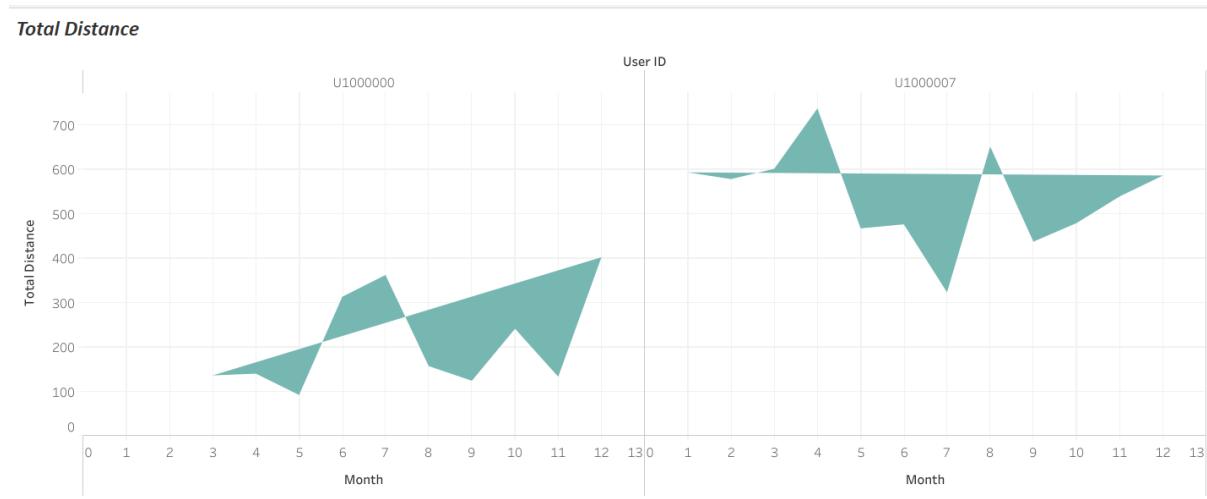
month	total_calories	total_distance	total_hour
1	15579.0	593.0	35.0
2	11801.0	578.0	43.0
3	11943.0	601.0	38.0
4	null	737.0	46.0
5	1237.0	467.0	32.0
6	10990.0	476.0	34.0
7	5482.0	323.0	26.0
8	11855.0	651.0	46.0
9	7975.0	437.0	33.0
10	11632.0	479.0	36.0
11	10817.0	539.0	34.0
12	6556.0	586.0	37.0

Total Calories



Total Hours





Daily Total Report for each user:

The below query would calculate the total distance in KM and total calories for each day of the year 2021:

For user U1000000

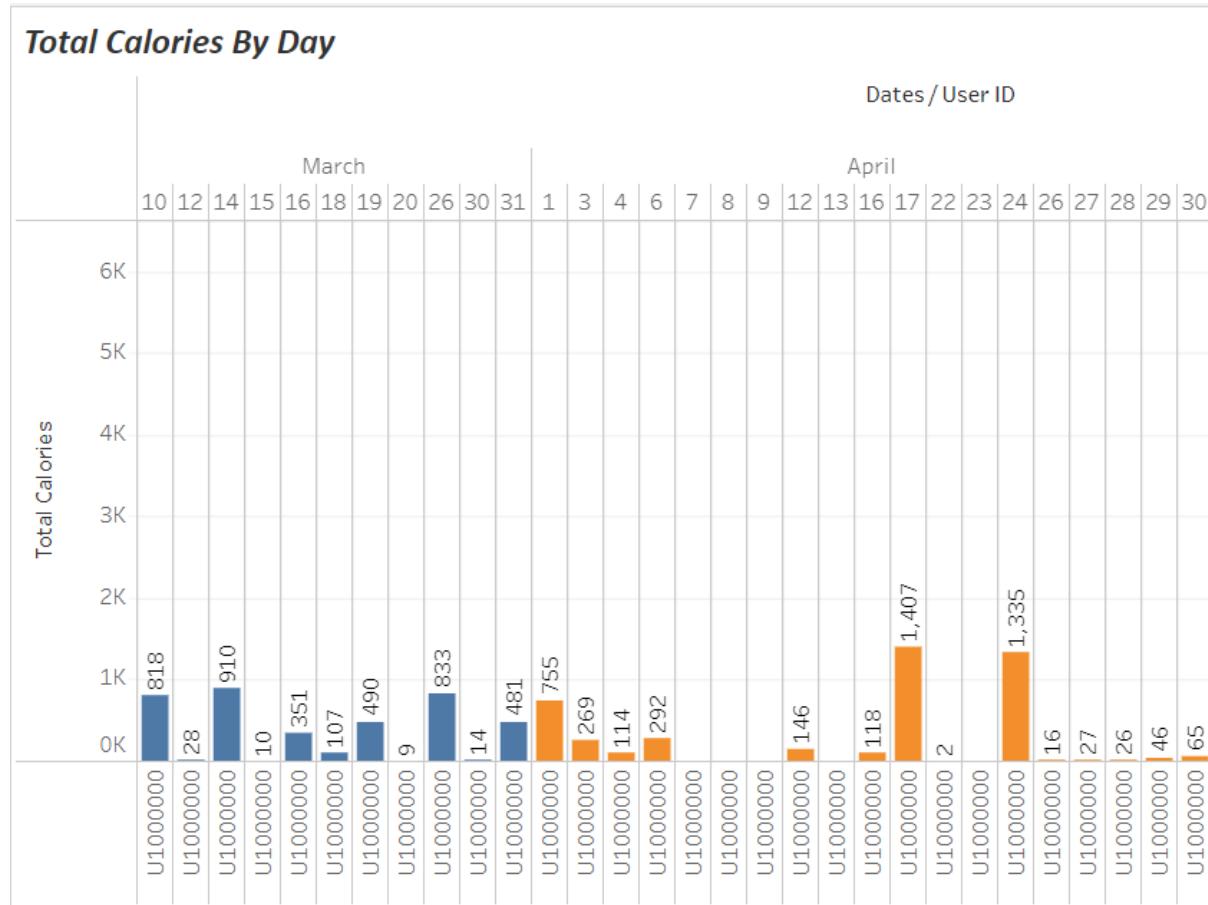
```
SELECT userID,
       date_AEST AS dates,
       ROUND(SUM(calories/4.18)) AS total_calories,
       Round(SUM(distance/1000))   AS total_distance
  FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
 WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31)
   AND userID = 'U1000000'
 GROUP BY date_AEST, userID
 ORDER BY date_AEST
```

Ella Zarandi (222064699)

Row	userID	dates	total_calories	total_distance
1	U1000000	2021-03-10	818.0	26.0
2	U1000000	2021-03-12	28.0	1.0
3	U1000000	2021-03-14	910.0	31.0
4	U1000000	2021-03-15	10.0	0.0
5	U1000000	2021-03-16	351.0	10.0
6	U1000000	2021-03-18	107.0	3.0
7	U1000000	2021-03-19	490.0	19.0
8	U1000000	2021-03-20	9.0	0.0
9	U1000000	2021-03-26	833.0	26.0
10	U1000000	2021-03-30	14.0	0.0
11	U1000000	2021-03-31	481.0	17.0
12	U1000000	2021-04-01	755.0	25.0
13	U1000000	2021-04-03	269.0	7.0
14	U1000000	2021-04-04	114.0	3.0
15	U1000000	2021-04-06	292.0	9.0

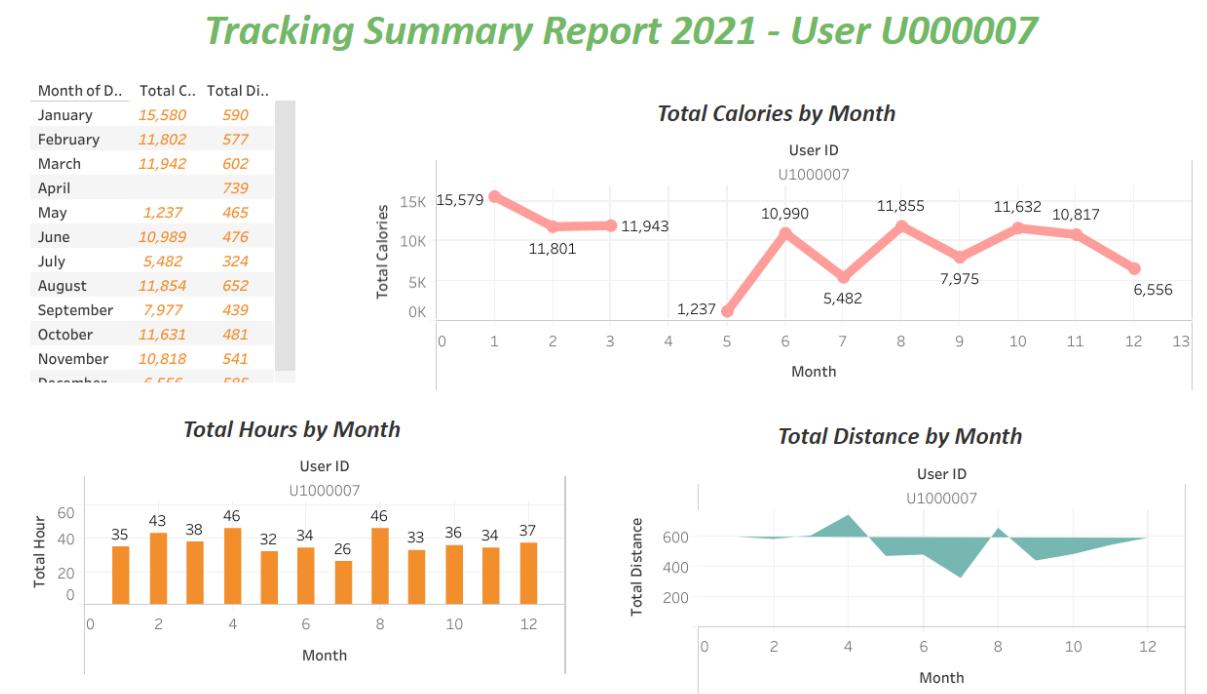
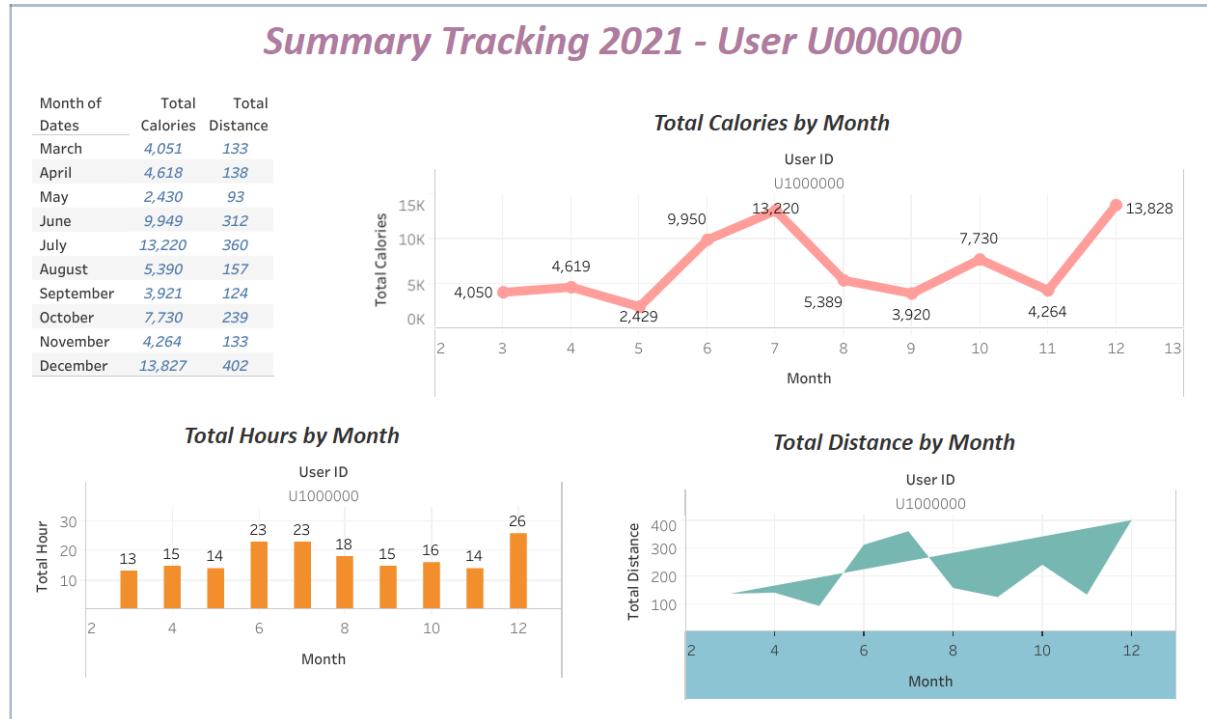
Total Calories - By Day

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268			651		
3		269		84	417				1,098			
4		114		159			276				69	
5			294			288				67		
6		292		219	313			113				
7			795		29		308		270			
8				29	633	93	2,172					
9				530	161				288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186		140		
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190				678		
17		1,407		788						1,976		
18	107					184	73					
19	490		28	984		165		359			358	
20	9		48	2,308							27	593
21			351		950	554					284	
22		2	19	299		773	60	320	159		581	
23					215		300					
24		1,335					179	1,126	888		410	
25							179	179	563			
26	833	16			570	125		72			820	
27		27	320	830	35	342	184				3,106	
28		26		355		571		481	131		1,769	
29		46	202									1,694
30		14	65	524			67			144		1,146
31		481		157			74		1,525			



Created the following Summary Tracking Dashboards using Tablue:

Monthly Total – for User1 and User7



The below query would calculate the Monthly Average distance (KM) and calories for each user – in year 2021:

```
select userID, EXTRACT(MONTH from date_AEST) AS month, round(AVG(calories)) as avg_calories, Round(AVG(distance))AS avg_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
```

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WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31) AND userID = 'U1000000'

*GROUP BY month, userID
ORDER BY month;*

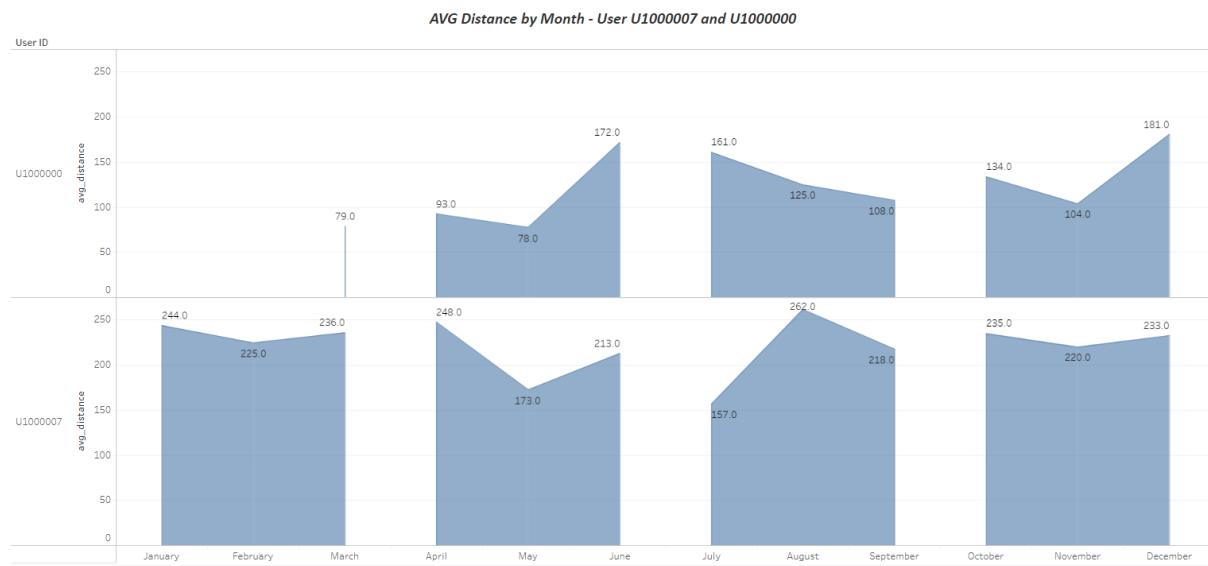


Tableau Dashboard – Monthly report

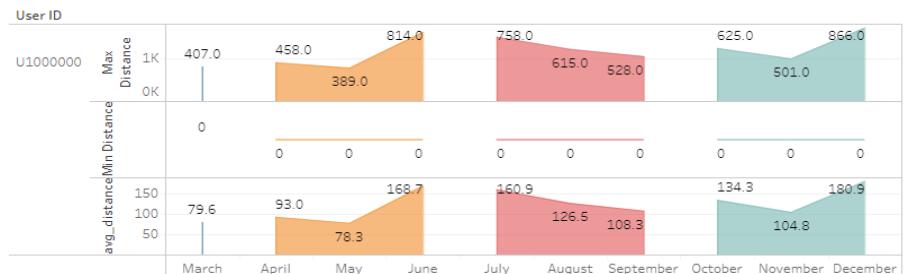
(Avg, Max, Min) – U0000000

Max, Min, and Avg Monthly Report 2021 - U000000

Monthly Calories and Distance Report - U1000000
 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
March	1,715	80	8,962	407	0	0
April	2,113	93	10,235	458	0	0
May	1,549	78	7,527	389	0	0
June	4,053	169	19,276	814	0	0
July	4,027	161	18,668	758	0	0
August	3,109	127	15,411	615	1	0
September	2,508	108	12,522	528	0	0
October	3,098	134	14,147	625	0	0
November	2,384	105	11,401	501	0	0
December	4,424	181	20,751	866	0	0

Max, Min and Avg Distance Report by Month (U000000)



Monthly Caloriy Report (Max, Min and Avg) - U000007

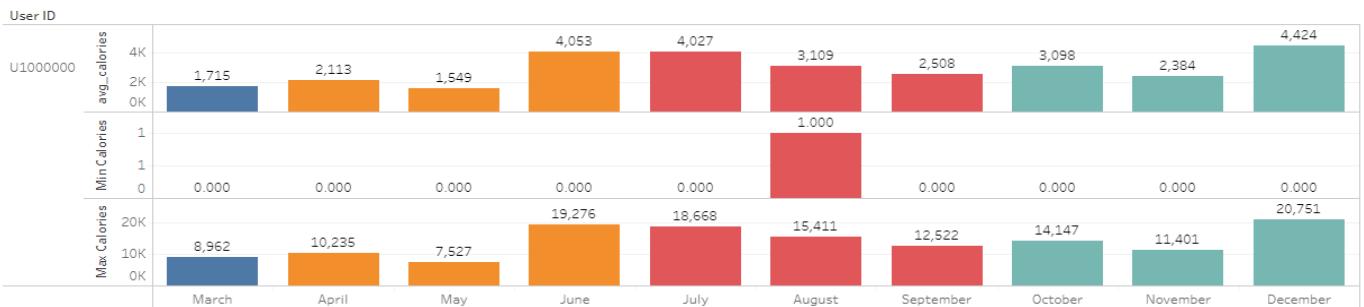


Tableau Dashboard – Monthly report

Ella Zarandi (222064699)

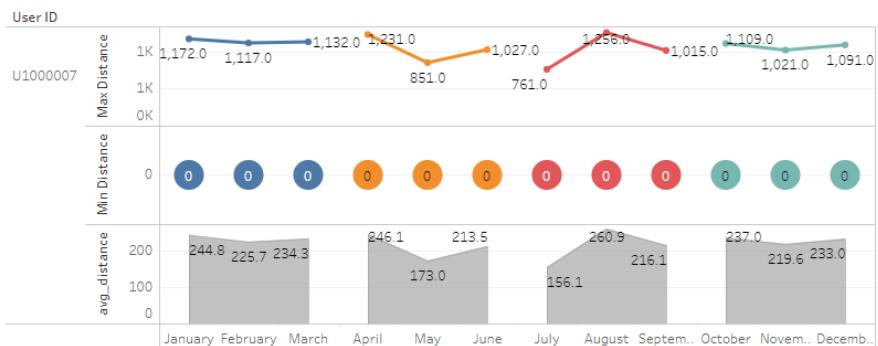
(Avg, Max, Min) – U000007

Max, Min, and Avg Monthly Report 2021 - U000007

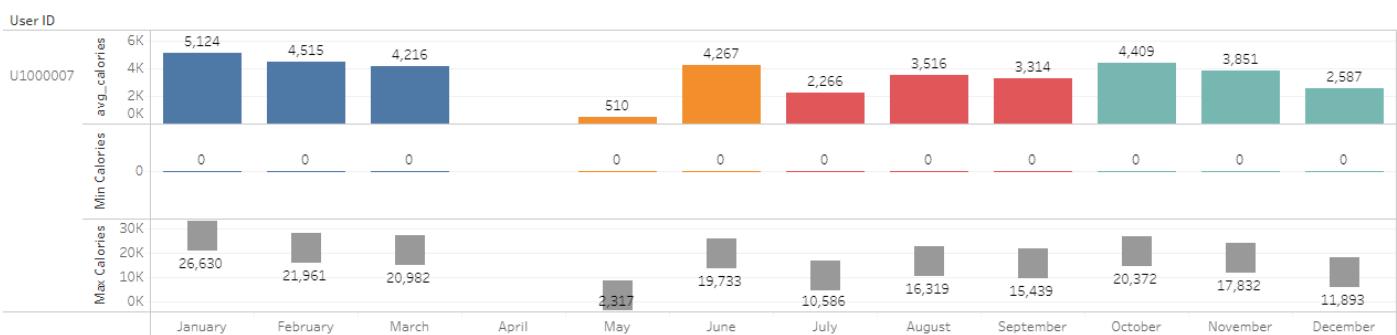
Monthly Calories and Distance Report - U000007 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	5,124	245	26,630	1,172	0	0
February	4,515	226	21,961	1,117	0	0
March	4,216	234	20,982	1,132	0	0
April	510	246	2,317	1,231	0	0
May	510	173	851	0	0	0
June	4,267	213	19,733	1,027	0	0
July	2,266	156	10,586	761	0	0
August	3,516	261	16,319	1,256	0	0
September	3,314	216	15,439	1,015	0	0
October	4,409	237	20,372	1,109	0	0
November	3,851	220	17,832	1,021	0	0
December	2,587	233	11,893	1,091	0	0

Max, Min and Avg Distance Report by Month (U000007)



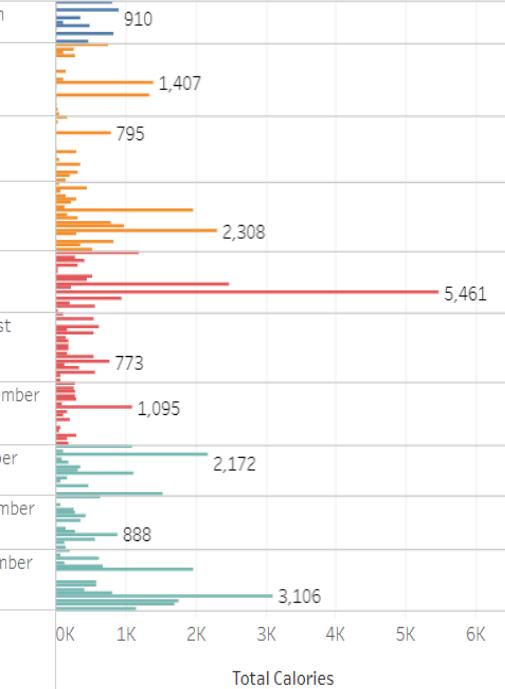
Max, Min and Avg Calories Report by Month (U000007)



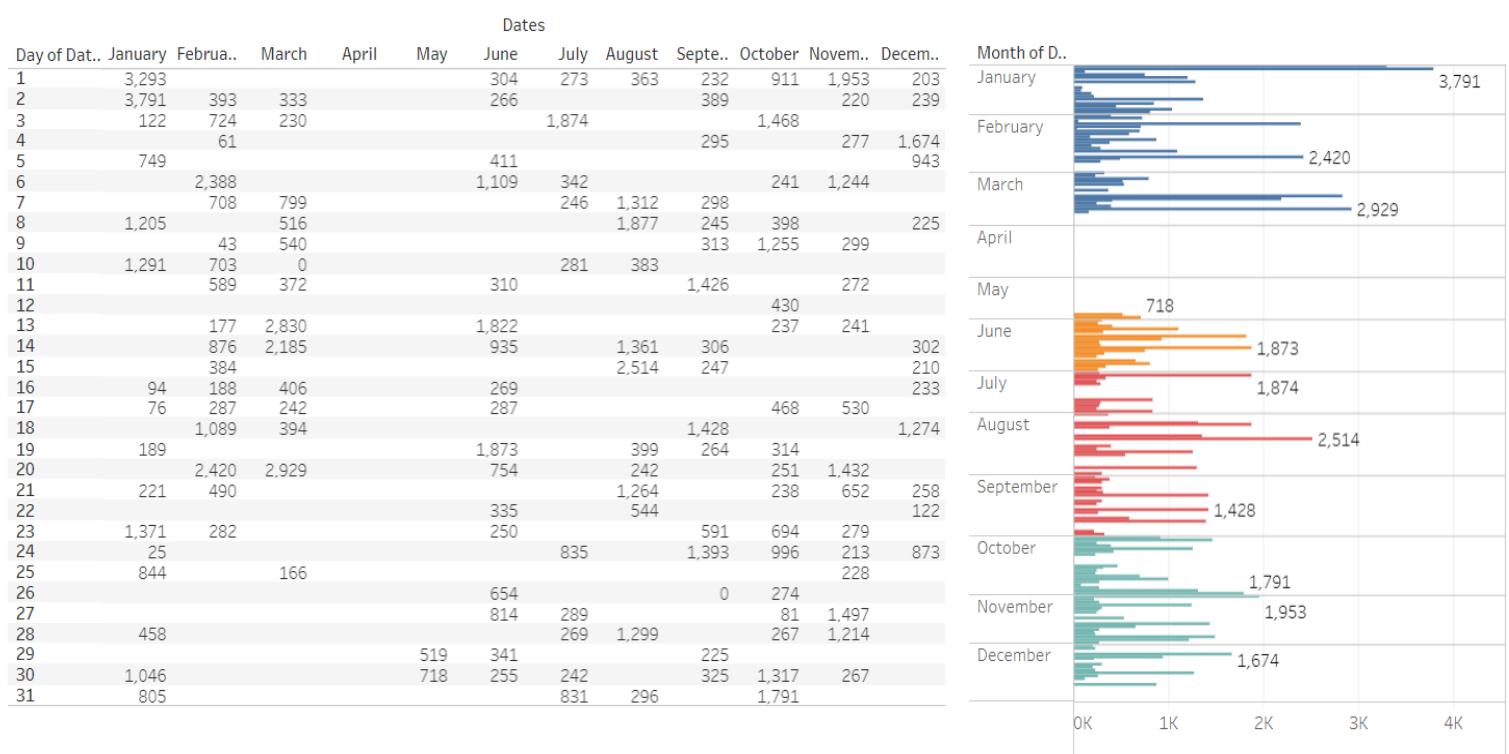
Daily Calorie Tracking 2021 - User U000000

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284			214		
2			33	461	293	540	268		651			
3		269		84	417			1,098				
4		114		159			276			69		
5			294				288		67			
6		292		219	313			113				
7			795		29		308		270			
8				29	633		93	2,172				
9				530	161				288			
10	818			461		1,095		434				
11				130	2,488				631			
12	28	146		234		172	99					
13				1,962	553	114	186		140			
14	910		1	170	154	200						
15	10			327	5,461	182	27					
16	351	118	297		190				678			
17		1,407		788					1,976			
18	107				184	73						
19	490		28	984		165		359				
20	9		48	2,308				358				
21			351		950	554		27	593			
22		2	19	299		773		320	159	581		
23					215		300		284			
24		1,335				179	1,126	888	410			
25						179	1,126		563			
26	833	16		570	125		72		820			
27		27	320	830	35	342	184		3,106			
28		26	202	355		571		481	131	1,769		
29		46								1,694		
30	14	65		524		67		144		1,146		
31	481		157			74		1,525				

Month of D..



Daily Calorie Tracking 2021 - User U000007



[Link to GitHub](#)

Participated in IOT Projects

In IOT team, my technical participation was applied mostly in the shape of a project manager, as below:

- Planned features and goals based on the project's status, time and our team capabilities,
- Sprint planning, task assigning and setting the deadlines
- Tracking closely the work flow to make sure that all deadlines are met,
- Suggested possible solutions when team faced any problems,
- Monitored the problem solving process closely and stepped in when needed
- Provided 1:1 support to make sure everyone are in the right track
- **modified the projects**
- **Provided resources, solutions and instructions**

Here is some example of my technical participation in IOT:

1- Remote access to the PI

- Provided resources,
- Tracked the task and provided feedback
- Asked to create an instruction document and include all the links and steps needs to be taken to get remote access to the PI

2- Workout Projects

At the start of this Trimester, it was only one workout (Ramp) implemented which was controlled by the APP, I planned that we develop another three workouts as below:

- Strength
- Endurance
- Threshold

The data is received via Bluetooth using the RPI and submitted via “MQTT” to a broker which distributed that data to relevant process including “The Flutter Mobile App” which can start and stop the workouts.

Problem: The app was down and we were not able to run and test the workouts,

As this workout, was implemented and tested last year, in T2, when the Mobile team leader did a lot of mobile development on his Mac and it worked for him with his iPhone,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also the previous co-leader mentioned that the changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Solution that I came up with:

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-Suggested to implement the workouts just from an IOT perspective, to be start and end using IOT products (not the APP) to be able to showcase how they control the bike.

Which all implemented and tested using our bikes' data.

3- Debugging (Kickr, Fan and "All-Script")

My participation on debugging:

- Acknowledged the bug
- Recorded them as an task and project
- Assigned each task to a member
- Suggested some possible solutions
- Sat deadlines and tracked the projects to make sure that the due dates are met
- Tested/checked out the CMS to be sure the values>0 is also transported

- **Developing a 'start_all' script project**

To get the bike start working, we were required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needed to be executed individually,

So I advised to developing a single .sh script which ables us to start all the .sh, which now implemented

My participation on this project:

- Clarified the project to the members
- Following up with the progress and providing feedback and solution when needed.
EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the "all-start" scrip project and work on the fix separately.
- Updating the Trello board

During my participation with Redback company what helped me the most were as below:

- Promoting communication across the company

- Acted as the point of contact for all participants
- Organized and run the meetings and events, created agendas and recorded the decisions.
- Providing 1:1 support to the leaders and team members, to be sure everyone is on track
- Keep track of all teams progress through our meeting and chat channels to establish team's work flew report, to pass it to the directors in our weekly meetings
- Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.

- *Effective problem solving process*

- *Identified the existing issues and suggested the possible solutions*
 - *Reviewed and Evaluate the status of the company's projects and products by referring to the available resources, Identified and defined the existing project's problems and issues and Suggested the possible solutions*
 - *Came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features*
-
- *Asked questions and sought for support and advice when required*
 - *Made sure that everyone were clear with their assigned tasks*

This unit will help me in the future:

Through this unit I practiced how to manage and face challenges and use them as an opportunity to learn and master new skills.

Also I learnt how to seek for the resources to upskill myself when required

And the most important lesson that I've learnt is that I have a great capability to be a successful project manager ☺

Other...:

At the end, I would like to take this opportunity to express my thankfulness to the unit chairs, company directors and all capstone team, for providing me with their support, guidance, advice and feedbacks.

I truly appreciate you all, and all the time you spent to assist me when I required throughout the entire trimester.

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ELAHEH KARIMI ZARANDI

Portfolio Submission

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi

Tutor:

Andrew CAIN

May 30, 2023



Contents

1 Learning Summary Report	1
2 Overall Task Status	2
3 Learning Outcomes	3
4 Company, Team and Me	4
5 Responsible Team Member Contract	8
6 Lead Contributions Contract	11
7 Company Objectives and Structure	14
8 Individual Retrospective	52
9 Responsible Team Member Progress Report	171
10 Leadership Progress Report	180
11 HD Panel Presentation	187
12 Company Progress Report	207
13 Final Individual Retrospective	268
14 Responsible Team Member Achievement	365
15 Lead Contributions Achievement	398
16 Learning Summary Report	403
17 Company Handover and Showcase	449
18 Final HD Panel Presentation	485

2 Overall Task Status

Task	Status	Times Assessed
Company, Team and Me	Complete	1
Company Objectives and Structure	Complete	2
Responsible Team Member Contract	Complete	1
Lead Contributions Contract	Complete	1
Individual Retrospective	Complete	3
Responsible Team Member Progress Report	Complete	1
Leadership Progress Report	Complete	1
HD Panel Presentation	Complete	1
Company Progress Report	Complete	1
Final Individual Retrospective	Time Exceeded	3
Responsible Team Member Achievement	Complete	2
Lead Contributions Achievement	Complete	1
Learning Summary Report	Time Exceeded	2
Company Handover and Showcase	Complete	1
Final HD Panel Presentation	Complete	1

3 Learning Outcomes

4 Company, Team and Me

What is your Company about, what is your team going to achieve, how do you fit in here?

Date	Author	Comment
2023/03/19 23:23	Elaheh Karimi Zarandi	Ready to Mark
2023/04/13 19:58	Yanjun Zhang	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Company, Team and Me

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/03/19 23:23

Tutor:

Andrew CAIN

March 19, 2023



Name: Ella Zarandi (Elaheh Karimi Zarandi)
Degree: Master of Data Science
Company Name: Redback Operations Role title or area: Company Leader
Target grade: HD

Course Learning Outcomes:

GLO1 – Discipline-specific knowledge and capabilities

As data science incorporates various disciplines, such as data collecting, data preparation, predictive analytics, machine learning and data visualization, so I believe that Redback company would provide me with the best opportunity to apply and improve these skills, by working through various projects.

In this trimester I will be running the IOT, as the team leader. By participation in IOT projects, I will gain more knowledge about collecting and preparing data sets from sensors using Raspberry pi, Google Cloud Platform (GCP), MQTT server and CMS, to make the data available to other team to use,

Also I am working with Data/AI team as the second leader, to improve my skills in predictive analytics, machine learning and data visualization through working in the AI projects.

GLO2 – Communication

Communication is key to any data science and data scientist role, as data analysis is all about conveying and understanding various complex concepts.

To boost my communication skills, I took over company leadership role.

As a company leader I encourage positive communication and give everyone opportunity to be heard, ensure all team members are aligned on project goals and understand exactly what's expected of them, trying to be helpful.

As I believe good communication is an important component in project management and allows projects to progress smoothly and on time.

GLO3 - Digital literacy

I believe Redback Operations offers great projects in both IOT and AI teams that would lead to digital literacy, as by participation in these two projects I would employ technologies and tools such as GCP, HiveMQ, Python, Tableau, graphs, charts, BigQuery, Github and.. to access, manage, understand, integrate, communicate and evaluate the data sets.

GLO4 - Critical thinking

As the company leader I would provide an environment to everyone, including myself to be able to master our critical thinking skills. The main way to practice "critical thinking" is to promote a team working approach to problem-solving, where everyone could ask questions, get access to the wide range of resources, documents and information, such as handover docs, company profile, projects overall information, to come up with the existing issues, then work as a team, perform effective communication and share knowledge to plan the solutions.

GLO5 - Problem-solving

After only two weeks working with Redback operations, I would say this company, really simulates life in a real company, all the problems faced in all industries occur in Redback too. There were/are lots of challenges that would make me to work on developing and applying a solution for the occurred problems, which leads to improve and brush up my problem solving skills such as Team-building, Research, Communication, Decision-making and Creativity

GLO6 - Self-management

As I took over the company leadership role, and because I was new to this company, so from day one, I had to perform a wide range of self-managing skills, such as Time Management, Stress Management, communication through meeting with previous/current team members, setting goals, research and upskilling, to be able keep the company and members on the right track.

GLO7 - Teamwork

I believe collaborative problem solving leads to better outcomes. In Redback company, we all work as a team through projects, and it would enables team members to share ideas and responsibilities and knowledge, which helps reduce stress on everyone.

As the company leader, I encourage everybody participation in projects progress. Here is some tips that we have in place to improve and achieve effective team working among employees,

- Roles and responsibilities are clearly defined to every team members,
- Having regularly meetings,
- Everyone are participated in planning and task assigning,
- Encourage respectful and effective communication,
- Provide the team with learning and researching resources.
- Provide assistance and support to each another,

5 Responsible Team Member Contract

Demonstrate your awareness of the things needed to be a responsible team member

Date	Author	Comment
2023/03/18 18:35	Elaheh Zarandi	Ready to Mark
2023/03/18 19:50	Elaheh Zarandi	Ready to Mark
2023/03/18 19:50	Elaheh Zarandi	Good evening teaching team,I'd really appreciate it if you consider the second submitted file as my finalized submission on this task,Regards,Ella
2023/04/13 20:24	Yanjun Zhang	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Responsible Team Member Contract

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/03/18 19:50

Tutor:

Andrew CAIN

March 18, 2023



Responsible Team Member Contract

Company's objectives and goals:

Redback Operations intends to gamify exercise by producing cutting edge connected fitness devices to improve exercise quality and training effectiveness. This trimester focuses on improving the Smart Bike product by adding more features and hardware, improving and implementing the VR game to make it more immersive and fun, improving visual consistency of the website, and securely deploying related services.

My Plan for this Trimester:

This trimester I will be working as IOT team leader and also will be taking part in some of the AI projects.

I have Strong working knowledge of data tools and analytical skills such as SQL, Python((Scikit-Learn, NumPy, Pandas,...), Tableau , R and Excel to identify business problems and solve them with scientific approaches.

Also I am familiar with a wide array of programming languages and technologies such.Net, C#, HTML5, ASP, CSS3, Java , Node.js, React,

By joining to Redback Operations, I wish to put my technical knowledge into practice, while I'm learning and growing new skills, such as GCP, mqtt and BigQuery

Contract

I understand that to be a responsible team member I need to:

- Make **lasting technical contributions** to the company through the application of my discipline knowledge and IT skills.
- **Clearly and concisely** highlight, describe, and provide evidence of my **individual contributions** to the company, projects/products, and cohorts.
- Regularly engage with my team(s) to collaborate on project deliverables associated with my role, and to support others in my team(s).
- Attend and participate in team meetings.
- Make sure that my efforts and progress, and the efforts and progress of my team(s), are accurately reported to those in leadership positions so that they can recognise successes and mitigate failures in a timely way.
- Behaviour in a way that is respectful of others.

Name: Elaheh Karimi Zarandi (Ella Zarandi)

Signature: 

Date: 18/03/2023

6 Lead Contributions Contract

Demonstrate your awareness of the responsibilities of being a lead contributor

Date	Author	Comment
2023/03/18 13:34	Elaheh Karimi Zarandi	Hello teaching team, I would like to request an eten-tion, as I am leading the Redback company, and I had to take care of heaps of tasks, such as presentaitin and recruitment procces, assinting teams,company report, so appreclte if I could get more time
2023/03/18 20:08	Elaheh Karimi Zarandi	Ready to Mark
2023/04/03 08:54	Kevin Lee	Complete
2023/04/03 08:54	Kevin Lee	Keep up the good work leading the company!
2023/04/09 21:27	Elaheh Karimi Zarandi	:+1:Thanks Kevin for your support

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Lead Contributions Contract

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/03/18 20:08

Tutor:

Kevin LEE

March 18, 2023



Leadership Contract

Plan

This trimester, I will be running the Redback Operations, as the company leader.

I see this opportunity as a way to demonstrate and boost my leadership skills, by performing an effective leadership to the company to Improve productivity of the team members and creates a good work environment, where everyone feel supported.

To create and maintain a positive work environment, I would run the following strategies:

- Effective recruiting process,
- Help team members to pick the right teams/projects to join, by providing information about each teams, projects and the tech stacks,
- Encourage participation in planning and task assigning,
- Utilize trello as our Agile tool, to manage the project workflow and task tracking,
- Setting clear expectations for team members,
- Training and providing resources,
- Encourage team collaboration and communication,
- Run regular team meeting,
- Keep track of progress,

Contract

I understand that to demonstrate leadership I need to:

- Lead something of significance within the company – technical leadership, product leadership, process leadership, or other forms of leadership.
- Demonstrate awareness of the big picture and have contributions that show I am influencing this picture in a constructive and effective manner.
- Positively influence others to ensure that project/product and company goals are met.
- Manage stakeholder requirements and expectations associated with the aspects of the company I lead.
- **Clearly and concisely** highlight, describe, and provide evidence of my **individual leadership contributions**.
- Demonstrate technical expertise appropriate to my course (degree).
- Demonstrate that I am exceeding the expectations of a responsible team member as outlined in my Responsible Team Member Contract (engagement, supporting others, attending meetings, respectful behaviour etc).

Name: Elaheh Karimi Zarandi (Ella Zarandi)

Signature: 

Date: 18/03/2023

7 Company Objectives and Structure

Describe the things that your company are aiming to achieve this trimester

Date	Author	Comment
2023/03/20 00:18	Elaheh Karimi Zarandi	Ready to Mark
2023/03/21 16:18	Luxing Yang	Fix and Resubmit
2023/03/26 22:06	Elaheh Karimi Zarandi	Not Started
2023/03/26 22:06	Elaheh Karimi Zarandi	Ready to Mark
2023/04/18 11:41	Kevin Lee	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Company Objectives and Structure

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi

Tutor:

Kevin LEE

Group Members:

dkyrou	Diomedes	KYROU	
s222034126	Jikuan	LIU	
mtelley	Mark	TELLEY	
mengqianh	Qianhui	MENG	
gomesan	Anno	GOMES	
stitusmenacherr	Sam	TITUS MENACHERRY	
cdang	Cao Binh	DANG	
mmanoj	Melvin	MANOJ	
majorti	Tim	MAJOR	
pastifo	Paul	ASTIFO	
africker	Ashley James	FRICKER	
truongt	The Tung	TRUONG	
s222181313	Pengyu	XIAO	
cjpark	Caitlin	PARKER	
ekarimizarandi	Elaheh	KARIMI ZARANDI	
hthrikawalabada	Harshana Thilanga	THRIKAWALA BADALGE	
mauryaa	Avinash	MAURYA	
leeyuns	Yunseong	LEE	
fengj	Jiahao	FENG	

March 26, 2023



Redback Operations - Company Structure and Objectives for 2023 T1

Executive Summary

Redback Operations intends to gamify exercise by producing cutting edge connected fitness devices to improve exercise quality and training effectiveness.

This trimester focuses are on improving the performance of the projects, by adding/developing more features. Such as implementing (FTP) to the Smart bike project in order to provide more personal workouts for users. VR team will be adding more features to game and also we will be working on improving the marketplace to provide additional incentive for exercising. We will continue improving visual consistency of the website, and securely deploying related services.

Planned features are:

- The cyber team aims to implement necessary security measures to protect critical systems
- The Dev/Ops team aim is to automate the code workflow by developing the CI/CD pipeline and gain in-depth understanding of various tools and technologies used in the process
- The IoT and Embedded Systems team will be working on implementing a system to measure functional threshold power (FTP) in order to provide more personal workouts for users.
- The mobile team will be focusing on app responsiveness and Implementing authentication and verification for the Login from both backend and frontend side
- VR team will continue implementing and developing the Sun Cycle project
- The remaining pages in the mobile application will be implemented
- The marketplace will be completed for the website so rewards from exercise can be redeemed
- Cyber Security will implement incident monitoring and firewalls to prevent compromise.
- The design team will improve the consistency and responsiveness of the website.

Signed off by the Acting Director.

Table of Contents

Redback Operations - Company Structure and Objectives for 2023 T1.....	1
Executive Summary	1
Leadership Team.....	3
Teams.....	4
Ash Fricker	4
Trimester Goals and Objectives.....	5
Company Structure and Projects Overview.....	7
IoT and Embedded Systems.....	8
Overview, Goals, and Objectives	8
Project 1 : Smart Bike Project	8
Project 2: Project Sun Cycle	12
Project Members	13
Mobile Application Team.....	14
Project 3: Mobile Application	14
Dev/ops Team	16
Project4 : Git App Repository Google Cloud Deployment.....	16
Web Development and Design	18
Overview, Goals, and Objectives	18
Project 5 - Mobile application Fixes and Additions	18
Project 6 - Website Design Project	19
Project 7 : Web Development Frontend.....	21
Cyber Team	23
Overview, Goals, and Objectives	23
Project 8: Implementation of a SIEM System	24
Project 9-Factor Authentication (2FA) Continuation.....	25
ASH FRICKER	25
Project 10- Implement Vulnerability Management Process	26
Data/AI team.....	27
Project 11: FIT File Handling and Data Pipeline.....	27
Project 12: Corporate Reporting	28
Project 13: The Cyclist/User Categorisation Project.....	29
Project 14: Sentiment analysis (language processing) and Community standards - User/Community comments	30
Project 15: User Ranking - Engagement	31
Project 16: Performance Ranking (User)	32

Project 17: Workout Categorisation.....	33
Project 18: Data Warehouse.....	34
Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics (Marketing and UX)	35
Project 20: Posture Analysis	36

Leadership Team

Acting Director: Kevin lee

Company Lead: Ella Zarandi

Leadership Team:

Team	Leads
IOT	Ella Zarandi
VR	Hilal Irshad
Mobile	The Tung Truong
DevOps	Arjodh Singh
Data/AI	Mark Telley - Ella Zarandi
Web/Design	Brian Dang - Yiannis Doulgerakis
Cyber	Melvin Manoj

Teams

IOT	Data/AI	Mobile	DevOps
Ella Zarandi	Mark Telley	Tung Truong The	Arjodh Singh
William Djojodiredjo	Ella Zarandi	Seth Tan	Astifo Paul
Jarrod Yong	Prastut	Manusha Umayanga	Adhish Anand
Ethan Benjamin	Sindhuja Manduru	Raveen Yashod	Steve Lee Sam Titus Menacheery
Thomas Morgan	Tianqi Liang	Pengyu Xiao	Web/Design
Momin Khalid Butt	Saeed Alnaqeeb	Cyber	Brian Dang
Ahmad Riaz	Miriam Llause Cotrina	Adam Bainey	EVAN MITROPOULOS
Vr	Tejas Varun Baskar	Carla Estella	NICOLAS ANDRES TOMAS
Hilal Irshad	Feature Lead	Caitlin Parker	Dio Kyrou
Jarrod Yong	Prastut Sapkota	Stephen Tobechukwu	HARSH HIMMATBHAI PATEL
Steven Markris	Kunal Tripathi	Tahlea Grant	Robert Nicolas Bajan
Daniel Isla	Samuel Borough Kamau	Jikuan Liu	GERALD FERNANDO MINI FARFA
Jiahao Feng		Ash Fricker	HOKKY KURNIA GONDO KUSUMO
		Melvin Manoj	QIANHUI MENG MENG

	SANJAY MEDIKONDURU	JACK COUSENS
Nasim Emadi		YESITHA HENAGAMA LIYANAGE
		ENOCH MOSIOMA NYAUNDI
		ANNO GOMES
		AKILA SOORIYABANDAR A
		NICHOLAS JAMES STAVROPOULOS
		YIANNIS DOULGERAKIS
		Han Xia

Trimester Goals and Objectives

Planned features are:

- The cyber team aims to implement necessary security measures to protect critical systems
- The Dev/Ops team aim is to automate the code workflow by developing the CI/CD pipeline and gain in-depth understanding of various tools and technologies used in the process
- The IoT and Embedded Systems team will be working on implementing a system to measure functional threshold power (FTP) in order to provide more personal workouts for users.
- The mobile team will be focusing on app responsiveness and Implementing authentication and verification for the Login from both backend and frontend side
- VR team will continue implementing and developing the Sun Cycle project

- The remaining pages in the mobile application will be implemented
- The marketplace will be completed for the website so rewards from exercise can be redeemed
- Cyber Security will implement incident monitoring and firewalls to prevent compromise.
- The design team will improve the consistency and responsiveness of the website.

Company Structure and Projects Overview

IOT:	Project 1: Smart Bike Project
VR:	Project 2: Sun Cycle Project
Mobile:	Project 3: Mobile Application
DevOps:	Project 4: Git App Repository Google Cloud Deployment
Web/Design	Project 5 : Mobile application Fixes and Additions Project 6 : Website Design Project Project 7: Web Development Frontend
Cyber:	Project 8: Implementation of a SIEM System Project 9: Project 10-Factor Authentication (2FA) Continuation Project 10- Implement Vulnerability Management Process
Data/AI:	Project 11: FIT File Handling and Data Pipeline Project 12: Corporate Reporting Project 13: The Cyclist/User Categorisation Project Project14: Sentiment analysis (language processing) Project 15: User Ranking - Engagement Project 16: Performance Ranking (User) Projects 17: Workout Categorisation Project 18: Data Warehouse Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics Project 20: Posture Analysis

IoT and Embedded Systems

Overview, Goals, and Objectives

The IoT and Embedded Systems team will be predominantly working on the Smart Bike Project.

This trimester main focus of the IoT and Embedded Systems team will be to continue the development of the Smart Bike Project. As the majority of the Smart Bike's sensors and other hardware are already installed, the team will focus namely on:

- Implement system to measure functional threshold power (FTP)
- Improving the quality of data that is transmitted from the bike
- Fixing known bugs with the integration into other teams
- Fixing known hardware issues with the bike and its sensors
- Furthering the integration with the other projects of Redback Operations
- Finish Rigging the NPC model and manipulating its key points based on the pose
- Improvements to the end-to-end user experience
- Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle

Project 1 : Smart Bike Project

Overview, Goals, and Objectives

The Smart Bike project developed an IoT enabled indoor exercise bike which takes the sensor data and delivers it to the cloud, where it can be used by the mobile application for exercise, or to deliver an immersive VR experience in Project Sun Cycle.

Given Redback Operations' focus on building "cutting edge technologies for connected health, fitness and sport to enable smart, safe exercise", the Smart Bike forms an integral part of the company's mission. As such, it is extremely important for the IoT team to continue with the development of the Smart Bike to allow the other teams to continue with their development and integration of it.

As the Smart Bike Project already has a working smart bike, one of the main focuses moving forward is to improve/add more features to Project Sun Cycle, as below:

- Implementing multiple circuits for Multiplayer/Cycling with Friends feature in the Project Sun Cycle Unity project
- Enabling more than two players to be able to race with each other in the Project Sun Cycle Unity project
- Implementing a lobby in the Project Sun Cycle Unity project in order to quickly choose who you might like to compete against
- Hooking up the summary screens (End of Workout interfaces) with accurate data from the smart bikes in the Project Sun Cycle Unity project
- Implementing Cross-play between the VR game and the mobile application

The IoT and Embedded Systems team will also be working on implementing a system to measure functional threshold power (FTP) in order to provide more personal workouts for users. This will result in users being able to get the most out of the smart bike by training to their maximum sustainable workload.

Deliverable: Heart rate stops publishing bug

Description: Heart rate seems to be published for a few seconds (and received by the subscribers), and after a few seconds it continues to report it is successfully published but nothing is received.

Team Members: Ella Zarani

Deliverable: KICKR won't start/ stops publishing bug

Team Members: Ella Zarani

Deliverable: Implement a FTP system

Description: To measure functional threshold power (FTP) in order to provide more personal workouts for users. This will result in users being able to get the most out of the smart bike by training to their maximum sustainable workload.

Team Members: Ella Zarani

Deliverable: Improvements to the end-to-end user experience

Description: Currently, a lot of hard coded information in Unity is used such as passwords, bike identifiers and player names. Ideally the GUI would set this information itself

Team Members: Jarrod Yong

Deliverable: Scripts to start processes on RPi

Description: Scripts were developed to start processes for the heart rate, kickr, fan and workout on the Raspberry Pi and can be found in the iot repository under scripts. These are best started manually once the bikes are ready to use.

Team Members: Jarrod Yong, Ethan Benjamin

Deliverable: Workout to process strength etc with more flexibility

Description: In order to target improving strength vs endurance, cyclists may wish to train at various percentages of their maximum sustainable output. Measuring VO2 Max is difficult but Functional Threshold Power is a possible surrogate.

If the mobile application were enhanced to enable the user to input their current FTP, workouts could be developed to train at various percentages of this maximum to target improving strength vs endurance vs anaerobic threshold.

Deliverable: Ethics submission for gas sensor system

Description: Submission for risk assessment of the details of the gas sampling system

Team Members: Ahmad Riaz, Momin Khalid Butt

Deliverable: Rate limit sending data from Pi (to avoid GCP fees)

Description: Once the startup scripts are written for the Raspberry pi's so they pair and publish data continuously there may be an issue that frequent uploading puts strain on GCP, particularly the fan topic which publishes at 10 Hz, and can cost upwards of \$20 per day in network costs when the CMS service is enabled. Throttling this rate to use QOS 2 and only publish changed values may be a way to avoid this.

Team Members: Ethan Benjamin, Thomas Morgan

Deliverable: Discussions with Google around obtaining Fitbit for use in this trimester.

Description: One method for obtaining VO2 Max without using the bikes is to use other datasets, such as integration with Fitbit which can estimate VO2 Max from running activity. They have an open api at developer.fitbit.com.

Team Members:

Deliverable: Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle

Description: The Cycling Against Friends/Ghosts feature is a large feature consisting of many components. Further work can be implemented in the Project Sun Cycle Unity project.

Team Members and assigned tasks:

Task	Name	Level	Role
Implementing FTP system	ELLA ZARANDI	S	TL
	THOMAS MORGAN	J	TM
KICKR won't start/ stops publishing bug	ELLA ZARANDI	S	TM
	WILLIAM DJOJODIREDO	J	TM
Limit rate-of-transmission from RPi (GCP cost)	ETHAN BENJAMIN	J	TM
	MOMIN KHALID BUTT	J	TM
Scripts to start processes on RPi	JARROD YONG	J	TM
	ETHAN BENJAMIN		TM
Heart rate publishing issue	THOMAS MORGAN	J	TM
	WILLIAM DJOJODIREDO	J	TM
Improvements to end-to-end UX	JARROD YONG	J	TM
	AHMAD RIAZ	J	TM
	Haris Sajjad	J	TM
Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle			

Project 2: Project Sun Cycle

A virtual reality game called Project Sun Cycle is played with an exercise cycle. The player can explore and travel around the post-apocalyptic tribal environment in this single-player experience, fulfilling quests like delivering supplies between the various tribes on their hover skater-bike. The goal of this project is to develop an enjoyable and engaging experience that will motivate people to exercise more by allowing them to play a video game at the same time.

Overview, Goals, and Objectives

By converting little virtual steps into bigger actual steps, Redback Operations aims to provide you with a smarter, fitter, and better environment. No of the weather, our organisation wants to put facilities in your hands. a lot of traffic? You won't need to worry, though, as our Smart Bike Project will dramatically revolutionise your indoor cycling experience and also provide you access to the outside world through a usable mobile app and an entertaining VR experience. In the workout VR game Project Sun Cycle, players use specially designed exercise bicycles to travel across the post-apocalyptic game world while delivering deliveries on a hover bike.

Aims for Trimester

In general, the goal of working on a VR project is to take advantage of the technology's unique characteristics to give users a more interesting, immersive, and useful experience. Continue the preceding project's incomplete portion's completion. Including additional components in the game. We'll release the manual documentation and UI design that how overall game will look like.

- Improve User Experience: Virtual reality (VR) offers a compelling, immersive experience that can greatly increase user engagement and project satisfaction. We will add more features where users can engage with the project more meaningfully by building a virtual environment.
- Visualizing Design: VR can assist architects, designers, and engineers in more realistically visualising their designs.
- Work on different tools like Trello and Figma design.
- Learn more about Unity.

Deliverables

1. Add different option for choosing bikes for the users.
2. To make more challenging environment we will add obstacles.
3. Add timer to the game in which user will reach or deliver within the given time.

4. Add bonus star through which player can increase their time while reaching to destination.
5. Create Speedometer to know how fast player is moving.
6. Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature.
7. Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application.
8. Create UML diagram.

Project Members

Name	Role	Tasks
Hilal Irshad	Leader	Timer and obstacles for the environment and implement Speedometer in the game.
Jarrod Yong	Member	Create UML diagram for the project and the SRS doc.
Steven Markris	Member	Create objects like bikes and add features to environment and implement that object inside virtual game
Daniel Isla	Member	Figma designs for the game interface and mobile UI.
Jiahao Feng	Member	Create Game Design Document and complete SRS doc.

Mobile Application Team

Team Trello: <https://trello.com/b/cNxiN0iZ/mobile-app-development>

Project 3: Mobile Application

Overview, Goals, and Objectives

The Mobile App is one of the Redbacks products that the user can engage with. It is about developing an app that will comprise one of the possible experiences Redback customers use when they are exercising. The problem it aims to solve is providing customers with an accessible and portable solution that can be used to track their fitness. A mobile app can easily be downloaded and set up on exercise machines or for workouts when the user is on the move. The overall goal of the project is to provide a friendly and engaging user experience that will impact stakeholders by building a brand image for Redback giving it value while also strengthening customer loyalty. The main deliverable for the project will be an app with all the necessary pages so that there is a complete experience from when the app is opened, and a workout is completed.

Aims for Trimester

- The main goal for this trimester is to finish the undone part from the last trimester:
 - o Continue to finish the pages from Figma (FAQ page and the Contact us page)
 - o Researching the way to make the app responsiveness to fit all screens
 - o Integrating the workout selection on the home screen
 - o Fixing the current bugs from the roadmap at the workout screen and login screen
 - o Adding the arena and the Marketplace features for the bottom Tabbar
 - o Adding comment for the function and file
 - o Save workout to MongoDB (need credential as the previous trimester students don't know what)
- Possible Implementation:
 - o Implementing authentication and verification for the Login from both backend and frontend side
 - o Implementing Marketplace features from the new Figma

Deliverables

- Focusing on finish the undone page from the Figma
- Improving app performance due to the app is not responsive to fit all screens
- Fixing the UI issues
- Improving backend performance

Project Members

Name	Level	Tasks	Role
Tung Truong The	Senior	Front-end Developer, improve app performance, finish UI on the FAQ screen	Team Leader
Seth Tan	Junior	Front-end Developer, fixing current bugs	Team Member
Manusha Umayanga	Junior	Back-end Developer, improve backend performance	Team Member
Raveen Yashod	Junior	Back-end Developer, fixing current bugs and improve the validation function from the backend side	Team Member
Pengyu Xiao	Senior	Front-end Developer, improve app performance, finish UI on the contact screen	Team Member

Dev/ops Team

Project4 : Git App Repository Google Cloud Deployment Overview, Goals, and Objectives

The main objective of this project was the deployment of the project contents from GitHub into the Google cloud platform. To define more clearly, the culmination of all works from the Redback Operations Team was created into a GitHub repository ready for access by all its team members and by the public. However, the plethora of code-files need to be uploaded as a web application in an online platform. For this process, we are using Google Cloud Platform as our deployment structure. Moreover, the code-files are created to accommodate for “containerization” of the applications. Some great advantages of this are cost cutting and easy test and deployment cycles. So, our project focusses on deployment of these docker applications into the Google Cloud Platform. Which prepares the “containerised” for access to the internet.

Aims for Trimester

- Our primary aim is to automate the code workflow by developing the CI/CD pipeline and gain in-depth understanding of various tools and technologies used in the process
- Secondly to create documentation that can act as step by step guide of creating CI/CD pipeline with Google cloud platform.
- Thirdly to provide handover documents highlighting about the deliverables accomplished and the deliverables that would move to next trimester

Deliverables

- Development of CI/CD pipeline in Google cloud
- Document highlighting step by step guide of creating CI/CD pipeline with Google cloud platform.
- Handover document that can act as reference for next trimester

Project Members

Name	Level	Task	Role
Arjodh Singh	Junior	Install GKE, CICD tools, cloud resource. Create the pipeline and Script. Research for creating Jenkins Job / Script.	Team Lead
Astifo Paul	Junior	Install & set up the Logging & Monitoring & Tracing tools.	Team Member

		Research for creating Jenkins Job / Script. Network & Security setting in GKE.	
Adhish Anand	Junior	Create the pipeline and Script. Network & Security setting in GKE. install & set up the Logging & Monitoring & Tracing tools.	Team Member
Steve Lee	Senior	Create the pipeline and Script. Connect Source repository with CICD tool. Install GKE, CICD tools, cloud resource.	Team Member
Sam Titus Menacheery	Senior	Create the pipeline and Script. Connect Source repository with CICD tool. Install GKE, CICD tools, cloud resource.	Team Member

※ Please be informed that the above tasks can be changed and added depending on the project.

Web Development and Design

RedBack Trello:

<https://trello.com/invite/b/4ueSjolZ/ATTI2748fd3a90d1e94d2cf01ec6a6fb0de9FEDCC0/design>

Team members trello:

<https://trello.com/invite/b/VaGG5QJV/ATTI5b3b328dfa977f2f700857c485a25d6544083928/design-team>

Overview, Goals, and Objectives

- The web development and design team is currently focused on enhancing Redback Operations exist designs and implementing UI designs to code
- We focused on analyzing the existing Figma projects and reconstructing the project to enhance the scalability and maintainability.
- As the designers and engineers work closely together, we make sure our designs not only visually appealing but also feasible to implement within the project time frame and guarantee the outcome of the project come out as expected

Project 5 - Mobile application Fixes and Additions

Overview, Goals, and Objectives

The current version of the mobile design developed by the previous team, however, after analyzed and discussed with the team, we have identified many problem with the current project such as all of the components in the design are not created as reusable components which make the project inconsistent very hard to maintain and scale for future improvement. Our final goal for this term is to redesign the blueprint project and improve its aesthetics by making it more aesthetically appealing and user-friendly.

Our team recognised the importance of the project's scalability and maintainability, as well as design consistency. All aspects had to be considered in order to achieve a successful execution with efficient future development possibilities. The consistency component inside the design should be maintained throughout every phase of its construction. Our commitment is to ensure that the outcome aligns with the goals of the whole project.

Aims for Trimester

Our key goal throughout this trimester is to finish the design and include new features before sending it to the other teams. For example, the front-end design team needed these designs to begin serious work on the actual product. Our goal is to complete the design to the highest potential standard, allowing other teams to use it efficiently.

Deliverables

Our Trimester Deliverables improve design , add new and reconstruct the project to enhance its scalability and maintainability.

The following things will be improve this trimester:

- + Marketplace design
- + Mobile App

Our long term objective for this project is to refine and finalize the design to a point where further work is only required for the addition of new features. Although the design is approaching this stage, some additional work is still necessary.

Project Members

- **Brian Dang** - Design Leader / UI Designer /UX researcher/ Developer
- **EVAN MITROPOULOS** - Design sub leader / UI Designer / UX researcher
- **NICOLAS ANDRES TOMAS** - Design sub leader/ UI Designer / UX researcher
- **DIO KYROU** - UI Designer /UX researcher
- **HARSH HIMMATBHAI PATEL** - UI Designer / UX researcher
- **ROBERT NICOLAS BAJAN** - UI Designer / UX researcher
- **GERALD FERNANDO MINI FARFAN** - UI Designer / UX researcher
- **HOKKY KURNIA GONDO KUSUMO** - UI Designer / UX researcher
- **QIANHUI MENG MENG** - UI Designer / UX researcher
- **JACK COUSENS** - Designer / UI Designer / UX researcher
- **YESITHA HENAGAMA LIYANAGE** - UI Designer/ Developer
- **ENOCK MOSIOMA NYAUNDI** - UI Designer / UX researcher
- **AKILA SOORIYABANDARA** - UI Designer / UX researcher
- **HAN XIA** - UI Designer / UX researcher

Project 6 - Website Design Project

Overview, Goals, and Objectives

Our primary goal for this effort is to make significant changes and improvements to the website's design. The focus would be on making it more visually appealing while also ensuring that its expandability and maintainability are improved.

The strategy currently lacks critical components and has inconsistencies that make it difficult to manage.

The goal is to overcome the barriers by focusing on the venture's reconstruction. Our goal statement includes creating an approach that will be robust and successful in the long run, resulting in positive outcomes for Redback's .

The other primary goal will be to implement the design changes in the frontend development of the website by coding all the new and improved web designs. This goal will also include making the website more functional with working buttons and other where it needs.

Looking at the previous year's report, the website needs to go live which is another goal we aim to achieve from the backend side of things.

Once again, as many in the team are not very experienced with little knowledge when it comes to frontend and backend web development, this is going to raise many barriers to overcome. But by finding the right strategy and time management and team effort, all of these barriers can be bypassed.

Aims for Trimester

The objective of the current project is to revamp the website design to align with the company's image and maintain consistency with other projects. We aim to prioritize this task as it is crucial to ensure that the design language resonates with the company's branding. Our end goal for this trimester is to achieve uniformity in design across all projects.

Deliverables

Our goal with this project is to create a design that will stand the test of time. This necessitates developing an appealing, changeable strategy that can be sustained for extended periods of time without necessitating extensive changes at future intervals. Finally, our primary goal is to build a structure that is unaffected by changes in its particular markets or technological breakthroughs.

During this trimester, our team has prioritized improving the design of our project and delegating completion duties to other groups. We recognise that success in this attempt will take more work than we have previously given; yet, we remain firm in our belief that dedicating ourselves to establishing an enduring and trustworthy design will result in significant benefits down the road. We are dedicated to designing designs that are not only visually appealing but also run at optimal efficiency while keeping to excellent quality standards.

Here is the list of frame will be improved this trimester:

- Daily report
- Community
- How to Participate
- Signup
- Login and Signup landing
- Yoga

- Workout
- Project
- Product
- Contact-us

Project Members

- **Brian Dang** - Design Leader / UI Designer /UX researcher/ Developer
- **EVAN MITROPOULOS** - Design sub leader / UI Designer / UX researcher
- **NICOLAS ANDRES TOMAS** - Design sub leader/ UI Designer / UX researcher
- **DIO KYROU** - UI Designer /UX researcher
- **HARSH HIMMATBHAI PATEL** - UI Designer / UX researcher
- **ROBERT NICOLAS BAJAN** - UI Designer / UX researcher
- **GERALD FERNANDO MINI FARFAN** - UI Designer / UX researcher
- **HOKKY KURNIA GONDO KUSUMO** - UI Designer / UX researcher
- **QIANHUI MENG MENG** - UI Designer / UX researcher
- **JACK COUSENS** - Designer / UI Designer / UX researcher
- **YESITHA HENAGAMA LIYANAGE** - UI Designer/ Developer
- **ENOCK MOSIOMA NYAUNDI** - UI Designer / UX researcher
- **AKILA SOORIYABANDARA** - UI Designer / UX researcher
- **HAN XIA** - UI Designer / UX researcher

Project 7: Web Development Frontend

Overview, Goals, and Objectives

Developing a web application allowing user to track their fitness data.

The goal of this project is implementing exist UI designs into reliable web application and getting the website live as well as making it more functional.

To implement designs changes where needed and improving the overall user friendliness and neatness of the website.

Objective is implementing the rest of the UI design frames from last trimester.

Aims for Trimester

The aim for this trimester is to complete the remaining frames left from the previous team which include Product Devices, Exercise History, Your Daily Report with Exercise, Exercises, and User Dashboard, Contact Us and if possible, get the website running live.

Deliverables

This trimester deliverable is:

- Product Devices
- Exercise History
- Your Daily report with exercise
- Exercises

- User Dashboard
- Contact-Us

Our long-term objective for this project is continuing implementing new features and pages provided by the design team and constantly improving web application responsiveness.

Project Members

- **Yiannis Doulgerakis** - Web Development Leader/ Developer
- **Brian Dang** - UI Designer /UX researcher/ Developer
- **NICHOLAS STAVROPOULOS** - Developer
- **ANNO GOMES** - Developer
- **YESITHA LIYANAGE** - UI Designer/ Developer

Cyber Team

Overview, Goals, and Objectives

The cyber team aims to implement necessary security measures to protect critical systems and all sorts of data involving RedBack activities from theft and damage. Establishing and maintaining user trust by developing a secure system is imperative for the company's long-term success. We are going to provision Security Incident & Event Management (SIEM) uses big data to receive firewall and security logs from cloud resources and does analysis to discover indications of compromise (IOC) and a platform that provides more visibility for incident tickets raised. The list below includes the key objectives of the cyber team in this trimester.

- Create/implement Security Incident and Event Monitoring system
- Create/implement firewalls
- Utilise both incident monitoring and firewalls in a manner which prevents data compromise for users and the company.
- Create/implement 2FA

Project 8: Implementation of a SIEM System

Overview, Goals, and Objectives

SIEM is fundamental and one of the essential 8 mandated cyber security requirements for companies in Australia. SIEM fundamentally consists of big data that stores logs and events which are analysed through playbook searches for correlations. Detection occurs with any indications that matches with a compromise which is then raised as a security incident to be actioned.

Upon completion of this project, IT resources provisioned on google cloud for Redback tenants, will be configured to feed their logs and events to SIEM.

Aims for Trimester

In this trimester the cyber security team would like to implement the following for the SIEM project.

- The basic functionality for SIEM system which will be provisioned in google cloud.
- A big data storage environment where the log stores will get set up.
- Define the feeders and log ingestions.
- Implement and deploy a few workflows, playbooks and dashboards.

Deliverables

- A SIEM with basic functionality implemented into our google cloud environment
- Processes and documentation around the SIEM system

Project Members

Member Name	Role	Task
Adam Bainey	Team Member	Incident monitoring (research and implementation/strategy to place in GCP environment)
Carla Estella	Team Member	Incident Monitoring (Research and Implementation)
Caitlin Parker	Team Leader	Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobechukwu Uzoka	Team Member	

Project 9-Factor Authentication (2FA) Continuation

Overview, Goals, and Objectives

The project aims to continue the previous trimester's 2-factor authentication implementation, with the motivation being secure and safe logins which ensure user authenticity and prevent malicious users gaining access to the company websites and databases. The overall goal is to work with previous works and ensure that a functional 2FA system is implemented at the website without any bugs or implications.

This positively impacts stakeholders as by implementing a 2FA system the attack space is reduced, and the likelihood of attack is minimised. Therefore, the cost of recovery to the company is diminished greatly, as well as the risk for negative publicity which may lead to distrust from clients.

Aims for Trimester

- Locate deliverables from Trimester 3
- Assess the implementation of 2 Factor Authentication as it stands
- Enhance the existing infrastructure so that we have a fully functioning 2 Factor Authentication service at login

Deliverables

- Full project documentation
- Demonstration of successful login with 2FA

Project Members

Member Name	Role	Task
Tahlea Grant	Team Member	Find deliverables from trimester 3 and assess
Jikuan Liu	Team Leader	Assess the implementation of 2 Factor Authentication as it stands.
ASH FRICKER	Team Member	Research and Test 2FA, find improvements and enhance the security.

Project 10- Implement Vulnerability Management Process

Overview, Goals, and Objectives

Vulnerability management is one of the essential 8 recommended by Australian government, and a key security control to track and monitor vulnerabilities of information technology assets. Vulnerability management system commonly, discover network connected devices and enumerates hard hardware, firmware/software of target devices and correlates with a database of known vulnerability/resolution to report vulnerabilities and track remediation assignments to service owner to resolve it (e.g. install a patch).

Aims for Trimester

- Firstly, IT assets need to be analysed to extract the required features for the solution (e.g. On-Prem assets, type of operating systems, etc.). this clarifies the project scope further.
- Doing vendor analysis and product selection to be reported to the company for product selection and financial contract.
- Setting up Initial basic functionality portal and first asset discovery.

Deliverables

The long-term deliverables for RedBack Operations would consists of:

- Project RFQ definition.
- Vendor and product analysis and selection
- Project tenant initiation.
- Onboarding Known devices (e.g Servers)
- Network Asset Discovery.
- Portal asset management, grouping assets and dashboard/report creations.
- Vulnerability management policy and procedures.

The trimester deliverables for Redback Operations would consists of:

- Project RFQ definition.
- Vendor and product analysis and selection
- Project tenant initiation.
- Network Asset Discovery.

Project Members

Member Name	Role	Task
Melvin Manoj	Team Member	Vendor and product analysis and selection
SANJAY MEDIKONDURU	Team Member	Project tenant initiation
Nasim Emadi	Team Lead	Network Asset Discovery

Data/AI team

Project 11: FIT File Handling and Data Pipeline

Overview, Goals, and Objectives

The FIT File Handling and Data Pipeline project aims to handle FIT files from the Wahoo KICKR Live, convert them to CSV format, and upload the data to a database. It will aim to provide real-time performance metrics through a rudimentary user interface using basic JS, HTML, and CSS as an MVP (only data points). The project will offer guidance to the web/application team on integrating the data within the game experience. A Python script will communicate with the KICKR, download, and convert FIT files to CSV, and integrate the data into the data warehouse project for storage. The project will provide a comprehensive solution for handling KICKR Live FIT files, making the data easily accessible for analysis and real-time performance metrics.

Top of Form

Aims for Trimester

- Develop a Python script for communicating with the Wahoo KICKR Live via Bluetooth connectivity and Wahoo API, downloading, and converting FIT files to CSV, and uploading data to a database.
- Create a rudimentary user interface using basic JS, HTML, and CSS to display real-time performance metrics as an MVP.
- Provide guidance to the web team on integrating the data within the game experience.

Deliverables

Long-term Deliverables:

- A comprehensive solution for handling KICKR Live FIT files, making the data easily accessible for analysis, and providing real-time performance metrics.
- A scalable and secure data pipeline that integrates with the game experience.

Trimester Deliverables

- Completed Python script for downloading, converting, and uploading FIT file data using the Wahoo API and Bluetooth connectivity to the KICKR Live.
- Rudimentary user interface displaying real-time performance metrics as an MVP.
- Documentation on Python script usage and deployment.
- Guidance for the web team on integrating data within the game experience, including instructions on how to access the data through the data pipeline.

Project Members

- Mark Telley – Product Owner
- Sindhuja – Product Lead
- Prastut – Stakeholder (Data warehouse)

Project 12: Corporate Reporting

Overview, Goals, and Objectives

The Corporate Reporting project aims to create static reports such as weekly summary reports, ranking analysis reports, workout summary reports and such using SQL query on the underlying tables. There will be Views created which will pull out the data required from the tables and produce the reports. This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

Top of Form

Aims for Trimester

- Develop Views which has underlying SQL queries that produce the data required like weekly summary reports, ranking analysis reports, workout summary reports.
- These views are automatically refreshed every time when new data is updated to tables and then the data can be saved to csv files.

Deliverables

Long-term Deliverables:

- An automated process to create and schedule stored procedure to run the SQL queries and generate reports.
- Prepare Dashboards (Power BI or Tableau) with filters on date and time so that these dashboards can be executed when required and published via browser or shared through emails or saved into excel, csv or pdf files.

Trimester Deliverables

- Completely developed Views which has underlying SQL queries that produce the data required like weekly summary reports, ranking analysis reports, workout summary reports.

Project Members

Sindhuja Manduru (Lead)

Ella Karimi Zarandi (Support)

Project 13: The Cyclist/User Categorisation Project

The Cyclist/User Categorisation Project aims to employ machine learning algorithms, including k-means clustering, hierarchical clustering, and principal component analysis (PCA), to comprehensively categorise cyclists based on their unique cycling behaviour patterns. The data used in this analysis will be collected from the Wahoo Kickr or Wahoo Bolt devices and Heart Rate monitor, analysed to develop a system of labels, spanning Pro, Semi-Pro, Amateur, Casual, Climber, and Sprinter cyclists. These labels will be further developed through data-driven analysis and may undergo changes, based on the outcomes. The insights gained from this categorisation will be vital in developing SunCycle and to compete with other competitors such apps such as Zwift or Strava, that matches cyclists with similarly skilled riders. Furthermore, the results of the analysis could be used for targeted marketing, sponsorships, and product development.

Aims for Trimester:

- Pre-process and clean the existing data set of FIT files.
- Perform exploratory data analysis on the data set to identify patterns and trends in cyclist behaviour.
- Apply unsupervised learning techniques such as k-means clustering, hierarchical clustering, and principal component analysis (PCA) to categorise cyclists based on their behaviour.
- Evaluate the effectiveness and accuracy of the categorisation results and refine the techniques as necessary.

Deliverables:

- Cleaned and pre-processed data set of FIT files – Create a specific dataset.
- Exploratory data analysis report outlining patterns and trends in cyclist behaviour.
- Categorisation report outlining the identified groups of cyclists based on their behaviour.
- Evaluation report detailing the effectiveness and accuracy of the categorisation results.
- Documentation outlining the project methodology, including data cleaning, and pre-processing steps, algorithm selection, and evaluation criteria.
- User guide and technical documentation for the updated library of algorithms and techniques.
- Handover documentation outlining the necessary steps for future maintenance and development of the project.

Project Members

- Mark Telley – Product Owner/Lead
- Ella Zarandi – Product Lead

Project 14: Sentiment analysis (language processing) and Community standards

- User/Community comments

The objective of this feature is to create a welcoming and inclusive environment for SunCycle community. SunCycle users have the option to leave comments on each other's activities as means of increasing engagement. To ensure that the comments are appropriate and to keep track of language usage, this project will analyse comment data, develop a model, and classify user comments. Further work will focus on documenting community rules (policy) and how a model confirms with modern day AI ethics.

Aims for Trimester

- Document community guidelines.
- Research different models.
- Procure data sets for training purposes.
- Implement various machine learning model that can classify user comments.
- Analyse model performance and best fit.
- Documentation of entire process.
- Live demo application

Deliverables

- Community guidelines
- Python files with different models
- Documentation of working progress
- Live demo

Project Members

- Tianqi Liang (Yvette) – Lead; responsible for deliverables
- Ella Karimi Zarandi – Support

Project 15: User Ranking - Engagement

Overview, Goals, and Objectives

One of the main goals in our SunCycle community is to keep riders motivated and engaged in a regular base. We aim to develop a ranking system to achieve that purpose and enhance engagement among riders. The system is going to rank the users based on how many points they achieve, which will be calculated based on their engagement. We will collect their activity data, prepare it, and use it to build the system. To give an example, a rider could earn 'X' number of points if they ride in two consecutive days. Also, this project aims to use machine learning to provide the users with their ranking projected path, based on their previous engagement, which is expected to be a purpose for motivation.

Aims for Trimester

- Researching on ranking systems (Mostly related to sports)
- Establishing clear worked out calculations of how and when users earn points.
- Researching methods, technologies to be used, and implementing the algorithm (First implementation)
- Data collection and preparation for testing
- Documenting the whole process
- Researching possible machine learning implementations

Deliverables

Trimester 1 – 2023:

- Points ranking system based on users' activity data (Working prototype)
- Short report on the mechanism of the system
- A handover document for the next team

Long-term:

- Detailed analysis of users' engagement and rankings
- Machine learning features implementation (E.g., Projected path) based on previous research.

Project Members

Saeed Alnaqeeb – Lead; responsible for deliverables

Mark Telley – Support.

Project 16: Performance Ranking (User)

Based on training peaks [StackUp](#) – The following will be implement a feature that allows users to see their performance and how they rank or ‘stack up’

Overview, Goals, and Objectives

The main goal of this project is to keep users engage with our product by giving them information regarding their performance. The performance analysis will be available in real time and users will have access to their historical performance. We will create dashboards where users can see their performance evolution. We will create different categories of performance and give them one final score. Users will be able to set goals for each performance category and track their progress on interactive dashboards this will create a competitive in-game environment.

Aims for Trimester

Describe the aims of the project for this trimester.

- Start the project documentation: Research and Setting objectives (deliverables).
- Develop a comprehensive understanding of performance KPIs in cycling.
- Gather and analyse the necessary data - making sure we have the data we need to create analysis and dashboards.
- Create user-friendly interactive dashboards of user performance analysis.
- Prepare documentation for handover to the next team.
-

Deliverables

Trimester 1 – 2023:

- Performance score calculation system based on users' activity data.
- User-friendly Interactive dashboards of user performance
- Real-time performance analysis and historical performance tracking.
- Tableau-based reporting for data visualisation.
- Documentation of the project's progress and findings for handover to the next team.

Long-term:

- Detailed analysis of users' engagement by tracking their own performance.
- Elaborate predictions of future goals based on their historical performance.

Project Members

Miriam Llauce Cotrina – Lead; responsible for deliverables

Tejas Varun Baskar – Support

Project 17: Workout Categorisation

Overview, Goals, and Objectives

The objective of this feature is to categorise workouts for Smart Bike users into workout types to tailor the experience to the requirements of each user and further gamify their training sessions. Whether a user is attempting to lose fat, improve cardiovascular fitness or simply increase endurance different workout types will provide different outcomes and we can highlight the benefits, recommend workouts that best suit their needs or identify if the user is not meeting their chosen goals. This project will analyse user outputs to develop a clustering model to label workouts based on similar features. Once these labels are assessed as appropriate, these labels can be used for further workout recommendations.

Aims for Trimester

- Identity appropriate datapoints for the dataset.
- Research different clustering models.
- Implement and assess different clustering models.
- Analyse model performance and validity of clusters.
- Develop a workout recommendation engine.
- Documentation of process steps.

Deliverables

- Clustering model – Trimester 1
- Recommendation engine – Trimester 1

Project Members

Feature lead – Nicholas Manning

Project 18: Data Warehouse

Overview, Goals and Objectives

The data for the Data and AI teams of Redback Company are temporarily stored in BigQuery environment. As BigQuery is a cloud-based environment and therefore has a limited database security option. As there is no infrastructure to manage and does not need a database administrator it can further expose the data to more vulnerabilities. So, we aim to provide an effective and long-term solution for the temporary measures that we have taken. The data will be pipelined into a Relational Database Management System (RDMS), and we aim to provide it through MSSQL. The data warehouse will consist of various layers from extracting Raw data to creating data marts for the business. In this project the primary focus would be providing an effective data warehouse architecture following data integration strategies, governance and security but not limited to modelling and analytics strategies.

Aims for Trimester

- Defining an architecture for the warehouse which includes data ingestion methods, storage options, and software and hardware specification, among others.
- Establishing data privacy, data security and data quality process.
- Development of logical models, data schemas and data marts.
- Establishing pipeline for the raw data connection and designing ETL pipelines.
- The ability of handling large chunks of data with continuous monitoring and optimizing.
- Development of master database.

Deliverables

Long-term

- A permanent solution to the extraction and storage of data.
- Integration of Extract, Transform and Load (ETL) workflows which extracts data from the source, transforms as per the architecture and requirements of the data warehouse, and loads into the warehouse.
- An effective data quality and governance framework.

Trimester

- A visual representation of the data structure in the data warehouse.
- A detailed description of how data from various sources are integrated and transformed.
- A master documentation that consists of comprehensive documentation of the data in the warehouse along with system and user documentation.
- A beta version of the integration of ETL through the proposed data warehouse architecture

Project Members

Prastut Sapkota – Project Lead

Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics
(Marketing and UX)

Overview, Goals, and Objectives

We are using existing data from Google Analytics to create reports to study user's behaviour and get meaningful insights about their out-of-game engagement to create a feedback loop for product owners which will enable them to view and address product statistics, bounce rates and various other issues.

Aims for Trimester

- To formalise report on key data insights
- Attempt to harmonise various data sources.
- To capture the behavioural & consumption pattern
- To collect details of other products of same specification

Deliverables

- Develop a pipeline for potential areas of focus for better allocation of resources.
- Develop functional model viz-a-viz product vs customers.
- Integrate with online data warehouse to store key data points such as the bounce rates and other critical user metrics, from various sources.
- Provide working example of software engagement metrics.

Project Members

Kunal Tripathi - Lead

Project 20: Posture Analysis

Overview, Goals, and Objectives

This project involves using pose estimation algorithms to detect postures and facial expressions and analyse them to better improve user experience during cycling. We can use gesture analysis to detect discomfort, exhaustion or enjoyment and provide the appropriate stimulation for the users or alerts. Moreover, we can also use posture analysis to recommend and monitor pre-workout warm-up stretches, cycling posture, and post workout cooldown stretches. The data can be used to improve the algorithm and provide insights for improving the environment or the bike.

Aims for Trimester

- Research of previous studies relating to facial gestures and posture during exercise
- Selecting the most suitable pose estimation algorithm as a base
- Collecting cycling and cycling related video and photo data
- Developing an analysis model that sorts and analyses the data, then creates a usable output for further use or storage
- Documenting the functionality of the model and its results

Deliverables

- Report on the information gathered from previous studies
- Cleaned and organised data
- A pose analysis model
- Documentation for project handover

Project Members

Samuel Borough Kamau-Lead

8 Individual Retrospective

Activities that have been undertaken for presenting and covering CLOs

Date	Author	Comment
2023/04/02 07:56	Elaheh Karimi Zarandi	I have emaild the letter to the unit chairs
2023/04/03 11:23	Luxing Yang	Ella is proactive as a leadership student in the company and has compelling reasons for extension. Extension request is now approved on this basis.
2023/04/16 22:13	Elaheh Karimi Zarandi	Ready to Mark
2023/04/16 22:15	Yanjun Zhang	Fix and Resubmit
2023/04/16 22:15	Yanjun Zhang	**Automated Comment**: Something went wrong with your submission. Check the files and resubmit this task. Failed to convert your submission to PDF. Check code files submitted for invalid characters, that documents are valid pdfs, and that images are valid.
2023/04/16 22:15	Yanjun Zhang	Fix and Resubmit
2023/04/17 14:33	Elaheh Karimi Zarandi	Not Started
2023/04/17 14:36	Elaheh Karimi Zarandi	Ready to Mark
2023/04/17 14:40	Yanjun Zhang	Fix and Resubmit
2023/04/17 14:40	Yanjun Zhang	**Automated Comment**: Something went wrong with your submission. Check the files and resubmit this task. Failed to convert your submission to PDF. Check code files submitted for invalid characters, that documents are valid pdfs, and that images are valid.
2023/04/17 14:40	Yanjun Zhang	Fix and Resubmit
2023/04/17 21:33	Elaheh Karimi Zarandi	Hi Yanjun, I have checked the files, they are already converted and are in pdf format, I have resubmitted them, hope this time it works
2023/04/17 21:34	Elaheh Karimi Zarandi	Ready to Mark
2023/04/26 12:00	Fatemeh Ansarizadeh	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Individual Retrospective

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/04/17 21:34

Tutor:

Yanjun ZHANG

April 17, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699
Target grade: HD

Individual Retrospective

Below is the List of my technical and leadership achievements, through working at the Redback company:

- ***Conducted On-boarding process, with the result of 65 students were integrated into the company.***
- ***Made sure all students are completely settled by end of week three***
- ***Reviewed and Evaluate the status of the company's current projects and products by referring to the available resources, Identified and defined the existing project's problems and issues and Suggested the possible solutions***
- ***Came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features***
- ***Redesigned and modified some projects' plans to make them achievable***
- ***Merged two teams to ensure consistency in work.***
- ***Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team***
- ***Upskilling and research on wide range of contributed tools and technologies***
- ***Making Technical contribution in AI/Data team by working on three Data analysis and ML projects***
- ***Participation in IOT projects by identifying the issues, sprite planning, assigning tasks and deadlines, modifying the projects and providing resources, solutions and instructions***
- ***Promoted communication processes across the company***
- ***Tracking and evaluating the project progress across the company and made sure the deadlines are met***
- ***Improved digital literacy in the company by providing team members with resources and access to their required tools, assisting them with resolving their technical problems and supporting them through their task completing***
- ***Performed great problem solving skills, involving critical thinking, decision-making, creativity, and information processing***
- ***Self-awareness of strengths and weaknesses, by evaluating the technical and leadership knowledge and skills and seek for feedback and assistance when needed***
- ***Showcased a remarkable team working skills, played as an active part in creating a positive environment for everyone, and supported any fellow students who needed extra support to make sure everyone are on the right track.***

Course Learning Outcomes

GLO1 – Discipline-specific knowledge and capabilities

As data science incorporates various disciplines, such as data collecting, data preparation, predictive analytics, machine learning and data visualization, so I believe that Redback company would provide me with the best opportunity to apply and improve these skills, by working through various projects.

In this trimester I will be running the IOT, as the team leader. By participation in IOT projects, I will gain more knowledge about collecting and preparing data sets from sensors using Raspberry pi, also I will be improving my knowledge on Google Cloud Platform (GCP), MQTT server and CMS.

Also I am working with Data/AI team as the second leader, to improve my skills in predictive analytics, machine learning and data visualization through working in the AI projects.

Unit Discipline goal part 1:

Develop a broad, coherent knowledge of the analytics discipline, including: the origin and characteristics of data; the methods and approaches to dealing with data appropriately and securely;

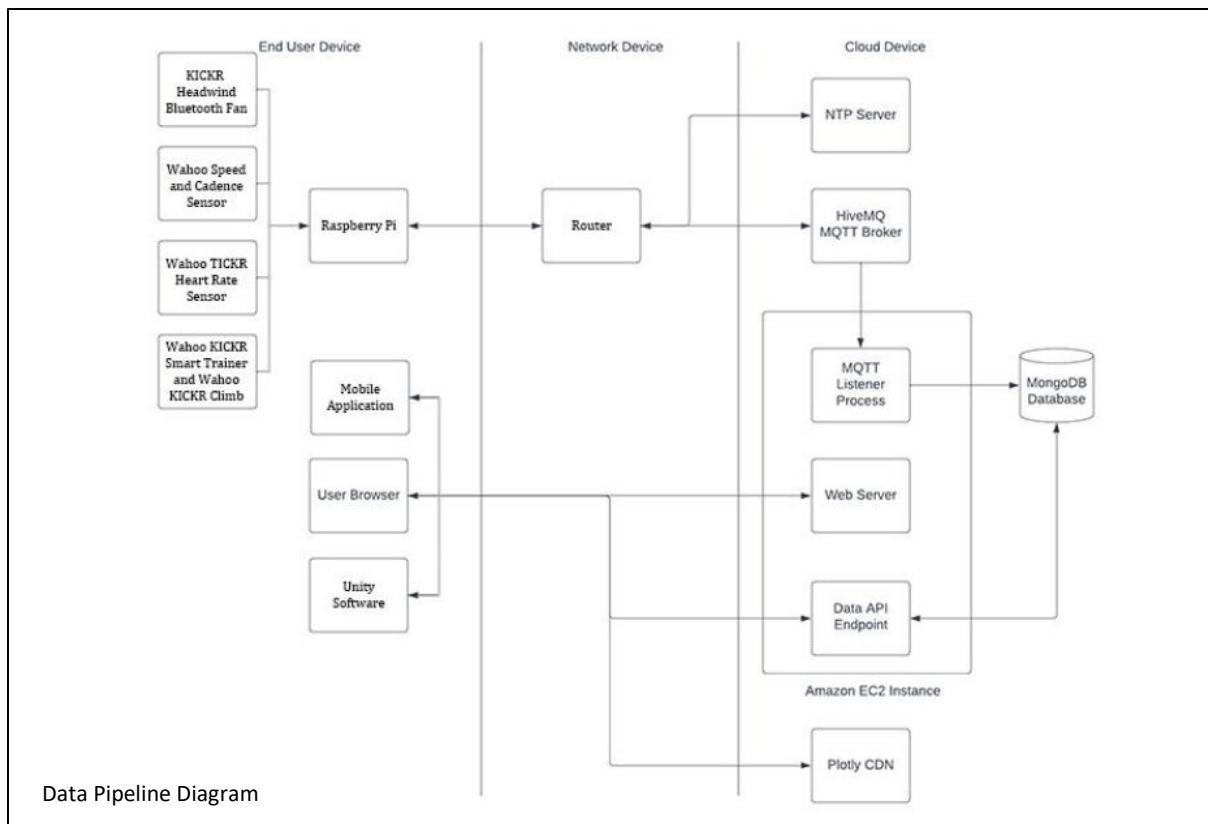
The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.

Here is the result of my research:

At Redback company we utilize “Contact Management System” (CMS). There is a Raspberry Pi in place which gets the data through the Bluetooth from bike’s sensors (Whahoo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app

The protocol used for this data transport is MQTT.



Provide access to required datas to all teams

After learning about the data pipeline, I wanted to be sure that all teams, do have access to their required data to start their projects,

So I did some research through handover document and also got in touch with all team leaders and realised that VR and Mobile App runs directly from MQTT,

Data/AI would use a “Master Fitness” dataset, which is accessible using BigQuery in GCP. This dataset is taken from Wahoo, which is an exercise capture data, in FIT format and has been converted to CSV file, using an existing query.)

Cyber team, also get access to their required data through GCP.

Also I considered to create a projects aiming to “Available the Data to Teams/Users” by integrating the CMS pages into the existing website, with login authentication protecting it.

But after some discussion with Company ‘directors and Data/AI leader, this project passed to AI team to complete (Project 11 FIT File Handling and Data Pipeline)

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources. I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog ... 3/23 ...

Edited
We need to have this task done, by end of this Tri:
Make the user's data available to them by integrating the CMS pages into the existing website, with login authentication protecting it.
To protect it: Cyber
To make it available or display it on the website: Web/design

Security and Compliance

Compliance is important for many reasons, including trust, reputation, security, and data integrity. According to implement the Security, I would control accesses to the tools, data sets and platforms and below:

- As the company Leader, it's only me that have ownership access to the GitHub
- I grant collaborator GitHub access only for the team leaders, and other members have only "member access", so they are not able to merge to the main branch, and need to submit request. This way leaders could get a chance to check the codes and files before they get merged to the main branch.

OH&S submission

While I was reading through the handover document, I faced to OH&S submission.

To get more information in that regards, I went through Deakin OH&S website and learnt that before any project can be done at Uni involving human participants, a risk assessment is required to be submitted to evaluate the risks.

So I wanted to make sure Riding the exercise bikes to collect and analyse data meets the requirements.

There was an OH&S submission that made by Adrian and Mark last Trimester, so I checked with Kevin to see whether more OH&S applications are needed and made sure that we are not required to prepare a new OH&S submission for this Trimester.

Unit Discipline goal part 2:

Apply advanced knowledge and skills to decompose complex processes (from real world situations) to develop data analytics solutions for use in modern organisations across multiple industry sectors. Assess the role data analytics plays in the context of modern organisations and society in order to add value.

To be able to showcase my knowledge and skills in developing data analytics solutions, I'll be participating in the following Data/AI projects:

❖ **Corporate Reporting Project**

The Corporate Reporting project aims to create the static reports mentioned below, using SQL queries on the underlying tables.

- weekly summary reports
- Ranking analysis reports
- workout summary reports

There will be Views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

In this project I will be working with Sindhuja Manduru

What is done:

As currently the BigQuary is not sorted out yet, so I just could run some researches as below:

- Researched on Strava schema,
- Consultation platform features
- What data we are collecting/needed to be collected
- Health information
- Completed surveys/Collecting Feedback
- Also I had a meeting with Sindhuja Manduru and asked her to conduct a research about the current collected data fields which we are going to use to generate the reports

Talking with mark, he mentioned the BigQuery will be ready by week6, for us to start working on our project.

Evidence:

[Link to Data/AI Trello Board](#)

[EV001](#) Working on Corporate Reporting project with Sindhuja Manduru

❖ **Feedback analysis models Project**

This project aims to train and prepare a "feedback analysis model" to be used at the time that we would have the "feedback" feature for any of our products.

As currently we don't have a "Feedback" feature in our products, so I will be using an "Amazon food reviews and rating" dataset in csv format (which are text reviews and rating the food out of five stars)

What is done:

Conducted some research about the technologies to implement this feature, and based on the result, below is my plan to go:

- ✓ Will be using the following two main techniques:
 - Vader Model which is a NLTK (python's natural language toolkit) module that provides sentiment scores based on the words used
 - Roberta model which is a pre-trained transformer model
- ✓ Will explore using some huggingface pipelines for making analysis quick and easy
- ✓ Will conduct analysis and evaluation of the models' performance

Ev: [Link to Data/AI Trello Board](#)

❖ **The Cyclist/User Categorisation Project**

This project aims to employ machine learning algorithms, including k-means clustering, hierarchical clustering, and principal component analysis (PCA), to comprehensively categorise cyclists based on their unique cycling behaviour patterns.

The data used in this analysis will be collected from the Wahoo Kickr or Wahoo Bolt devices and Heart Rate monitor, analysed to develop a system of labels, spanning Pro, Semi-Pro, Amateur, Casual, Climber, and Sprinter cyclists.

These labels will be further developed through data-driven analysis and may undergo changes, based on the outcomes.

The insights gained from this categorisation will be vital in developing SunCycle and to compete with other competitors such apps such as Zwift or Strava, that matches cyclists with similarly skilled riders.

Furthermore, the results of the analysis could be used for targeted marketing, sponsorships, and product development.

My plan is to start this project in week nine. In this project I will be working with Mark.

GLO2 – Communication

Communication is key to any data science and data scientist role, as data analysis is all about conveying and understanding various complex concepts. To boost my communication skills, I took over company leadership role.

As a company leader I encourage positive communication and give everyone opportunity to be heard, ensure all team members are aligned on project goals and understand exactly what's expected of them, trying to be helpful. As I believe good communication is an important component in project management and allows projects to progress smoothly and on time.

Here are some actions that I take to achieve this goal:

- ❖ Organizing and running the meetings and events, creating agendas and recording the decisions.

We run regular weekly meetings to give opportunity to all members to make participation in sharing ideas, making decisions and build team relationships.

The meeting that happening in Redback Operations is as below:

- Weekly leadership meetings,
- Weekly team meetings,
- Weekly meetings with Directors,
- 1:1 meetings to able people to bring their issues up to resolve

- ❖ Scheduled meeting's time based on everyone's availability and encouraged attendance to the meetings

Evidences: [EV002 Screenshot](#)s of meetings [Link to MS Team Meeting Agenda Folder](#) [Meeting Notes](#)

- ❖ Providing 1:1 support to the leaders and team members, to be sure everyone is on track

The following are some example of providing 1:1 feedback, instructions and solutions to the team members:

- Planning out projects and objectives for the teams
- Creating project's documentation
- Creating the Company objectives presentation PowerPoint slides
- Scoping the Projects,
- Task assigning to the members,
- How to complete the on track tasks,
- How to create forks and channels in Github
- How to use the Trello boards as project management tools (how to create/edit cards ex..)

Evidence: [EV Screenshots of Providing 1:1 Support](#)

- ❖ Keep track of all teams progress through our meeting and chat channels to establish team's work flow report, to pass it to the directors in our weekly meetings

Evidence: [Screenshots](#)

- ❖ Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.
- ❖ Encouraged everyone to bring up the problems they are facing to (through 1:1 meetings or direct texts) to seek for the solutions and support

Here are some example of providing support when student asked for:

- *While leaders were trying to complete their team reports for our company's structure, I provided them with tips, suggestion and resources, to be able to identify the problems, and plan projects and task to address those issues,*
- *provided support to leaders, when they were on the process of planning projects for the Trimester by assisting them to understand their team's objectives and projects' status, also provided the suggestions and feedback on scoping the projects and sprint planning,*

GLO3 - Digital literacy

To Promote Tech Literacy in the Redback company, I needed to get myself familiar with all the tools and coding languages which were utilized by the entire company, to be able to collaborate and communicate with different teams.

So during the first two weeks I used the available resources to make it clear to myself about technical expectations of what is involved when I am running the company,

Below are the resources that I had access to:

- *Studied through the handover document,*
- *Conducted meetings with the previous company leader, "Adrian" and the current AI team leader, "Mark"*
- *Learned through the GitHub*
- *Went through resources accessible in the Chat channels*
- *Referred to the last Trimester Trello boards*

Also up-skilled and learned about the following tools:

- ❖ *GitHub*
- ❖ *Trello boards*
- ❖ *MS Team*
- ❖ *Google Cloud Platform*
- ❖ *Data Pipeline*

We utilize Contact Management System (CMS) pipeline. There is a Raspberry Pi in place which gets the data through the Bluetooth from bike's sensor (Whahoo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app

The protocol used for this data transport is MQTT.

So to be able to understand all this process I up killed myself in:

- *MQTT Protocol and use of it in IOT*
- *Basics of writing shell scripts to be able run the current scripts in the pi*
- *Learnt about Wahoo sensors and FIT files*

- I will be working on upskilling myself in Python programming on Raspberry Pi

GLO4 - Critical thinking

Critical thinking means sorting details to come up with a big-picture perspective of the status of the projects and products to identify the existing problems and analyse each products' requirements to be able to plan the solutions and develop strategies.

In order to be able to perform company leadership duties efficiently, and planning and monitoring the company's projects, the first step was to learn about the company's objective and the status of each team's projects,

In regards to my study through the handover document and meeting with the ex-company leader, the status of the projects in the company was as described in below:

IOT Team:

In tri3 2022, IOT just consolidated the implemented projects , means no features or products has been implemented or developed, so I decided we focus on Implementing the features that were already placed in the handover document as well as our new IOT projects,

To find out about the situation of the existing IOT projects, I did a deep study about the current project's problems through handover document, also I headed to the lab to be able to run and test the scripts and try out the Raspberry Pi and other hardware,

Below is the listed issues/bugs I faced to, which are assign to the IOT members to get fixed,

- The KICKR wouldn't start, after running the script,

This bug is fixed,

Defined the bug

1. Tested/checked out the CMS to be sure the values>0 is also transported

- The Heart rate, seemed to be publishing for a few second, and then stopped working,
(On process)

- The Fan would keep publishing data,(even when it is off, still it would publish 0s,

My participation on this task:

Suggested the solution by modifying the project to also be able to control the fan's operation using IOT's product, for the times that we don't have access to the VR and App's products.

Currently the fan is dependent on the Unity game engine connections and also the heart-rate monitor, so we are not running the fan script at all unless the VR game or Mobile application is running, as they are solely responsible for changing those values.

As now the App is not working, so I advised as a solution we create another projects and conduct some researches about how we could use kickr's data values to control/adjust the Fan's operation, so When the speed is 0, stop sending data to reduce the cost of GCP, also I believe It makes more sense that the fan output is assimilated with the 'speed of the bike', so we want to have the KICKR speed MQTT output to be fed into the FAN python script, such that the Wahoo fan speed increases/decreases as the KICKR speed increases.

- ***Developing a 'start_all' script project***

Currently to get the bike start working, we are required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needs to be executed individually,

The aim of this project is developing a single .sh script that able us to start all the .sh, so as soon as Pi is plugged in, we have it ready to publish the data to the cloud or receive the commands to transfer it to the sensors.

My participation on this project:

- Clarified the project to the members
- Following up with the progress and providing feedback and solution when needed. EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the "all-start" scrip project and work on the fix separately.
- Updating the Trello board

Evidence: [Link to Trello Board](#)

VR Team:

At the end of Tri32022 the work in the VR game was not implemented into the main branch, as they changed the game a bit last trimester to make it side scrolling rather than first person.

My participation on this project:

Identified the issues and suggested the following action to be done in VR team as solutions:

- Implement the current code into the main branch,
- As the following features were not completed/implemented to the project, so I asked VR team to work on below tasks as their URGENT task/plan for this Tri,

- *Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature*
- *Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application*

A screenshot of a Microsoft Teams message board titled "2023T1 Capstone Redback Lead...". The message was posted by Ella Karimi Zarandi at 3/17 4:44 PM. The message content is as follows:

3/17 4:44 PM Edited
VR team, the following features are not completed/implemented to the project, so u could work on those as your URGENT task/plan for this Tri

-Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature
-Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application

- *Suggested to VR team to employ further sensor data in their product,*

There are four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR,

So recommended to VR team to conduct some research and come up with some idea about how they could use the other sensors in our VR product.

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features, (I have provided a copy here as well)
- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product,(please include this research in your plans as well).
- Fix the "Role" column in the "Project Member" table

Regards,

Ella



VR.pdf

...

Mobile Team

After reading through "Open Issues" in handover doc- page 83 and checking the designed screens, I realized that they are not responsive (didn't get fit to the screens) when different mobile's brands were chosen.

*So I asked Mobile team to focus on **App responsiveness** as one of their main plans for this trimester.*

My participation in this project:

Identified the problem

Created a pdf file and included "open issues" and "Road map" for Mobile team as resource to refer to

Hi Tung,

Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section.

Please focus on **APP RESPONSIVENESS** as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part,

AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not

You also may refer to the attached pdf file to get access to the "open issues" and "Road map".

Mobile team.pdf

Web-Design team

Based on the project's status, the following plans were suggested to work on

The following pages to be implemented into the Figma design

- Product Devices
- Exercise History
- Your Daily Report with Exercise
- Exercises
- User Dashboard

Below were the issues that needed to be fixes

- Some images could not be downloaded from figma design. So different images to be used which needs to be altered in some pages.
- As there wasn't website credentials, yearbook feature could not be deployed.
- Even though the website was responsive in different screens size of some images will differ and be uneven

GLO5 - Problem solving

There were/are lots of challenges that would make me to work on developing and applying a solution for the occurred problems, which leads to improve and brush up my problem solving skills such as Team-building, Research, Communication, Decision making and Creativity

❖ **After Reviewed and Evaluate the status of the company's current projects and products by referring to the available resources, the existing project's problems and issues were Identified and some the possible solutions were suggested, as bellow:**

- DEV/OPS: Develop a CICD system,

- IOT: Sensor's data publishing Bug to get fixed
- VR : Implement the current code into the main branch,
- Some features were not completed/implemented such as Figma designs for the Cycling Against Friends/Ghosts feature
- Mobile : Make the current screens user interactive and responsive
- Web - Design : Responsiveness

ELLIA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources. I have created one for IOT, U are welcome to edit/modify this to be used in your team

Hi leaders

some ideas that u might consider as part of your team's plan:

DEV/OPS: Develop a CICD system, Stop sensors of sending 0's data, when the bike stops working

VR : Implement the current code into the main branch,

Mobile : Make the current screens user interactive,

Web - Design : Responsiveness

3/17 4:44 PM Edited

VR team, the following features are not completed/implemented to the project, so u could work on those as your URGENT task/plan for this Tri

-Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature

-Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application

❖ **Making the data available for other teams, was my first priority.**

To achieve that purpose, I needed to exactly know about the existing data pipeline and how the sensors and Pi working in order to publishing the data. So I headed to the lab and faced the following problems:

- The KICKR would't start, after running the script
- The Heart rate, seemed to be publishing for a few second, and then stopped working,
- The Fan would keep publishing data,(even when it was off, still it would publish 0s,
- To make the bike work, we had to run all scripts manually

So I created a list of these issues as projects/task for IOT team, to work on.

Also to be able to give other teams access to the data we came up with the following two solutions:

- Get the web-design team, to develop an API to present the data stored in CMS in our website(this project is currently on pause, as we decided to try out the second option)
- Create a FIT file, to extract the FIT files from wahoo directly (Mark is currently working on that and he is about to complete it)

❖ **On week five I was notified by one of the Cyber team members(Nasim) that their team leader does not response to any messages and she didn' have access to Trello and Github yet,**

How I acted on this issue:

- Made changes to hierarchical structure, and Nasim and Catiline were assigned as team leader
- Organised an urgent meeting with all Cyber project leaders to discuss over the projects' process
- Sorted out the cyber team access to the Github and Trello
- Guided Nasim how to apply for GCP for Cyber team and walked her through the GCP application form
- Assisst Nasim and Jikuan to learn how to create cards and tasks in Trello boards
- The following tasks assigned to the project leaders to take act on them urgently
 - Organising a meeting with their project's members
 - Scoping their projects
 - Task assigning to their members
 - Clear the tasks for junior students
 - Provide assistance about how to use GitHub to junior students

Evidence: [Screenshots](#)

❖ **Developing Strength and Endurance workout project**

We have four workouts designed in the App, so when users login to the app, they could pick one, to start the workout.

The workouts are Ramped, Strength, Endurance and Threshold, but only the Ramped workout is currently implemented, as descripted below:

After the 5 second timer, the workout begins. For the ramped workout, the bike begins at 24% resistance and 0 degrees incline, and increases every 30 seconds by 4% resistance and 1 degree incline, until it reaches the maximum of 100% resistance and 19 degrees incline. The increase and decrease intensity buttons are not available during the workout as the intensity is continually increased automatically. The user should cycle continuously until they reach exhaustion, at which point they must press finish workout to end the workout and view the summary screen.

Problem: The app is now down and we are not able to run and test the workout,

As this workout, was implemented and tested last year, in T2, when the Mobile team leader did a lot of mobile development on his Mac and it worked for him with his iPhone,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also Adrian mentioned that the changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Solution that I came up with:

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-We work on implementing the workouts just from an IOT perspective,

Currently in IOT we are going with the second option.

I have changed two of our members' project and assigned them with the following tasks:

-Search up how to run and start the first workout without using the app,

-Implement and develop Strength and Endurance workouts in their IOT side

The screenshot shows a Trello board titled "Redback Operations IOT T12023". The board has a single column with the following items:

- Good afternoon IOT team,**
As at the end of this week we have to submit our company progress report,
So I would like you all complete the first scope of your project as below, the deadline is ((18/4/23) Tuesday 8:00 pm). Please make sure you meet the deadline and update me with your progress at our meeting
- WILLIAM DHOJODIREJO** William your task for last week was to search about the existing apps and tools to able the IOT team to get access to the PI remotely. I saw your update in Trello saying it's not possible, but as last Trimester people worked remotely on Raspberry Pi, so it should be also a way for us,
So I suggest you get in touch with Adrian or call IT support to find the solution
Deadline Tuesday(18/4/23) 8:00pm
- THOMAS JAMES MORGAN** Thomas to search up how we could run the FTP scripts locally through the PI, without needing the APP running. Deadline Tuesday(18/4/23) 8:00pm, Would be great if you start come coding to try and test the result
- JARROD YONG** and **THOMAS JAMES MORGAN** I would like you to also work on getting remote access to the PI, and consider this as an urgent task Deadline is strictly this Tuesday 4:00pm
- ETHAN BENJAMIN**, I would like you, to also work on this task,(to search if we could run the FTP scripts locally through the PI, without needing the APP running) you could refer to the recorded file of last week's meeting to get more information, Deadline: This Tuesday 8:00pm
- AHMAD RIAZ** and **HARIS SAJJAD**, with regard to the result of our last week meeting, we changed your project, so you are required to conduct the following actions:
-Update the Trello,
-Research, code and run the first workout (Ramped) without using the App deadline: Deadline this Tuesday(18/4/23) at 8:00 pm

At the bottom of the board, there is a comment from **JARROD YONG**: "I would like you to also work on the Ahmad and Haris task and start to implement a new workout".

❖ We run weekly meeting with directors so they would be aware of the project and could provide input or help solve issues.

The biggest issue is getting someone from every team to turn up, otherwise I don't get the full picture of what is going on in the company.

My solutions on this problem:

- I tried asking the leaders to nominate a second person to come if they couldn't but some still don't do it.
- Because of the meeting's time which is happening at 1:00pm on Thursday, It might be challenging for leaders or other members to attend for whole one-hour meeting. So I decided to slot the time and assign 5 to 10 minutes to each team. This way it would be much easier for members to manage their time and make 10 minutes available time for their assigned attendance time slot.

IMPORTANT

Good afternoon Everyone

As we all know, we are running weekly meetings with the company's directors, every Thursday at 1:00 pm.

Also as I mentioned before, all team leaders(or someone from their team) are required to attend this meeting, to give a briefing on their team's progress and performance, (**As discussed before**, If you are not able to attend, then another member needs to be at the meetings on behalf of your team.)

SHORT WORDS: Attendance at these meetings is compulsory.

AND As the team leader, it is YOUR RESPONSIBILITY TO BE SURE ONE MEMBER FROM YOUR TEAM ATTEND THE MEETINGS.

I understand that because of the meeting's time, It might be challenging for you to manage yourself/or someone else, to attend for whole one- hour meeting. So I decided to slot the time and assign 5 to 10 minutes to each team. This way it makes it much easier for you to manage your time and make yourself available for your assigned attendance time slot.

Our next meeting is planned for the April 20th, so you have two weeks time, to organize yourself (or someone else from your team) to attend the meeting,

The time slots are as below:

1:00 – 1:10 Talk about the company overall

1:10 – 1:15 IOT team,

1:15 – 1:25 Web-Design Team

1:25 – 1:35 Data/AI team

1:35 – 1:40 VR Team

1:40 – 1:45 Dev/Ops Team

1:45 – 1:50 Cyber Team

1:50 – 1:55 Mobile Team

Please let me know if the time slot doesn't meet your availability or if you would like to change it.

We might be able to a bit play around with the slots, but as it's only 5 to 10 minutes, I really expect you, to make yourself available for the assigned time slot.

GLO6 - Self-management

As self-management is an important leadership quality, so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as bellow:

- Evaluating my technical and leadership knowledge and skills and putting a lot of effort into up-skilling and researches
- Performing a remarkable planning and organizational skills
- Working independently and seeking for support and advice when required to ensure of being on right track
- Outline project goals, based on the status of the projects and the member's capabilities
- Stress management
- Time management
- Creating to-do list and strict deadlines for team members and myself
- Evaluating self- progress toward the goals
- Using the provided feedback to improve my progress
- Adaptability and Decision making (Specifically modifying the tasks and plans to make them achievable)

- Using Trello as the project management tool to keep track on company progress

GLO7 - Teamwork

I believe collaborative problem solving leads to better outcomes. In Redback company, we all work as a team through projects, and it enables team members to share ideas and responsibilities and knowledge, which helps reduce stress on everyone. As the company leader, I encourage everybody participation in projects progress. Here is some tips that we have in place to improve and achieve effective team working among employees, - Roles and responsibilities are clearly defined to every team members, -Having regularly meetings, -Everyone are participated in planning and task assigning, - Encourage respectful and effective communication, - Provide the team with learning and researching resources. -Provide assistance and support to each another,

- ❖ Conducting recruitment and on-boarding process,
 - prepare a presentation about Redback for juniors to learn about the company and projects to attract them to join to our company,
 - Presented the recruitment presentation,
 - collecting information from through the created form and also reading through their profile to get some basic info about them to be able to position them within the company based on their skills and capabilities

Evidence: [Screenshots](#)

[Link to "Recruitment Rresentation" File](#)

- ❖ Organised the teams and established the leadership
 - Conducted a company wide meeting for all members to attend to be able to express their interest in leading the teams
 - The team leaders were allocated
 - An on-boarding report/list was established

Evidence: [Link to On-Boarding members list](#)

- ❖ Members are to work relatively independently and I just monitor and guide when they bring issues up to resolve
- ❖ Created work log for IOT team and provided other teams with a sample to use in their teams.

Evidence: [Link to "IOT worklog" File](#)

[Screenshots](#)

- ❖ Set up access for teams to their required tools and platforms as below:
 - Trello boards and GitHub to all teams,
 - Figma access to Mobile team,
 - Plastic SCM and Unity access to VR team,
 - GCP access to IOT team.
 - Provide assistant to Nasim while applying for Cyber team GCP access

Evidence: [Screenshots](#)

- ❖ Organized regular meetings, created Agendas and recorded the results to provide to people who wasn't able to attend
- ❖ Providing the required links, templates, work logs and documents to the members

Evidence: [Screenshots](#)

- ❖ Setting up Access to the required tools and platforms for students
- ❖ Scoped the projects and assigned task to everyone
- ❖ Organized the junior's presentation about the company
 - Posted about the junior's presentation task, in Redback general, IOT and AI to inform Juniors about this opportunity and asked them to notify me if they are interested in presenting
 - As it was only one junior interested, so I reached out to individuals (especially the responsive/organised ones) and ask them if they would like to present with my support
 - Created "Juniors'CompanyStructurePresentation" and added those who were supposed to present, to be able to communicate to each other to get prepared for the presentation.
 - Provided juniors with the resources and presentation information such as PowerPiont slides and the time and date of the presentation

Evidence: [Provided support on Junior's presentation](#)

[Link to "Juniors'CompanyStructurePresentation" channel](#)

- ❖ Established the company structure report
 - Provided support, resources, feedbacks and guidness to leaders to complete their team reports
 - Shared the list of the previous team's leaders
 - Provided researching resources
 - Suggested some ideas to consider as their team's goal
 - Shared the result of conducted reseachres about the project's issues and recommended some achieveble plans to address the problems
 - Provided some tips to assisst how to complete the section's of the team report

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IC

3/17 2:31 PM
Hi leaders,
A few tips that may come handy, while u are planning:
- Look at what is already done in your team (refer to handover docs, company info, docs that are exist in the team channel)
-Look at the "Problem Banks" in the handover docs,
- Plan your projects
-what is done: u might be able to improve it (using new technologies, ...)
- What the problems are : u might come up with some solution(that solution could be your plan)
- How u would change or develop the current project, ex: adding features, re-designing, responsiveness (research about that project, refer to the docs in channel)
-U might have new ideas to add as a project (u may research about: virtual cycling apps, virtual cycling simulators, ... to find some new idea or features to work on)

3/19 10:40 AM
Some tips when are working on the team report:
- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (EX: the reason you think that project is required to be added/improved or what problems would be solved),
- In the " Deliverables" section, you would breakdown your projects ~~to the Deliverables~~ features/tasks to assign to your team members to get developed and delivered,

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IC

3/18 8:53 PM
THE TUNG TRUONG 3/18/2023, 2:58 PM
Shared a file Mobile Team.docx
Hi the Tung and thanks for submitting your team report, Here are some feedbacks:
-Please fix all the spelling/grammar mistakes,
-In the "Aims for Trimester" section, Please specify:
- What is not completed that u are going to complete, (ex: what is not completed in Marketplace, how you are going to develop that feature? What value/s it is going to add to the projects)
-What features you would like to add from Figma, and again how that feature is going to add value to the project?
- What/how you would "improve backend authentication"?
-On the "project member" section, please assign each task/feature to one of the team members,
Please go through all of the points mentioned and re-submit after fixing.
Regards,
Ella

- *Created the company structure report and submitted it*
- *Organized submission for junior side*
- *Informed members about Company structure submission*

Evidence: Feedbacks and Guidance on Completing the Team Reports

[Link To "company structure report" File](#)

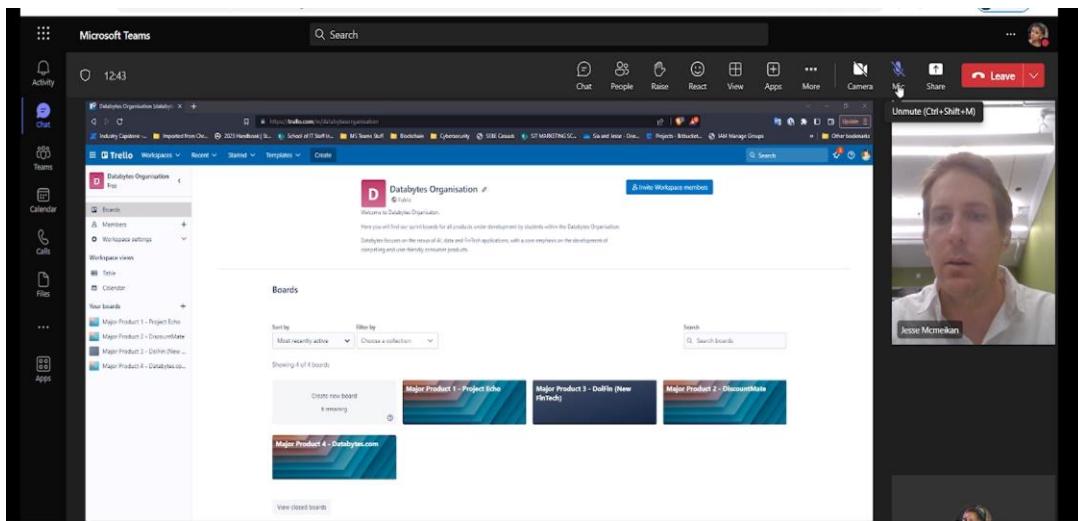
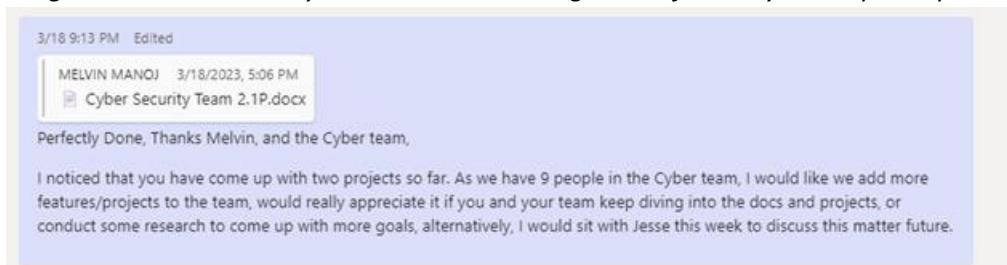
[Screenshots](#)

- ❖ **Company Structure Presentation**
 - Designed and prepared the Powerpoint slides
 - Presented the presentation

Evidence: Company Presentation

Link to "Company Presentation" File

- ❖ **Supporting leaders to develop projects, goals and plans for the Trimester,**
 - After Cyber team submitted their projects I noticed that they have come up with two projects. As we have 9 people in the Cyber team, I wanted them to add more features/projects to provide enough tasks for everyone to participate, so I advised the team leader and Cyber team to keep diving into the handover document and other resources, or conduct some research to come up with more goals,
 - Alternatively, I organised a meeting with Jesse and we discussed this matter future, also Jesse provided me with lots of useful advice about how we could share all the tasks across the company by creating cards in Trello board, to give students opportunity to see all the tasks and be able to assign them to themselves and work across entire company, not just their assigned team. In this way we would have enough tasks for everyone to participate.



- Researched and reviewed through handover document for all teams to be able provide them with some projects ideas

Evidence: Screenshot

- ❖ As we didn't have any repository in GitHub specifically for VR team, so I created the VR repo in GitHub (which was asked by one of the team members) to copy the current project, to get it auto updated to any new changes

Evidence: [Screenshot](#)

GLO8 - Global citizenship

As we have some of our team members living out of Australia, I took the following actions to be able solve the issues they faced to:

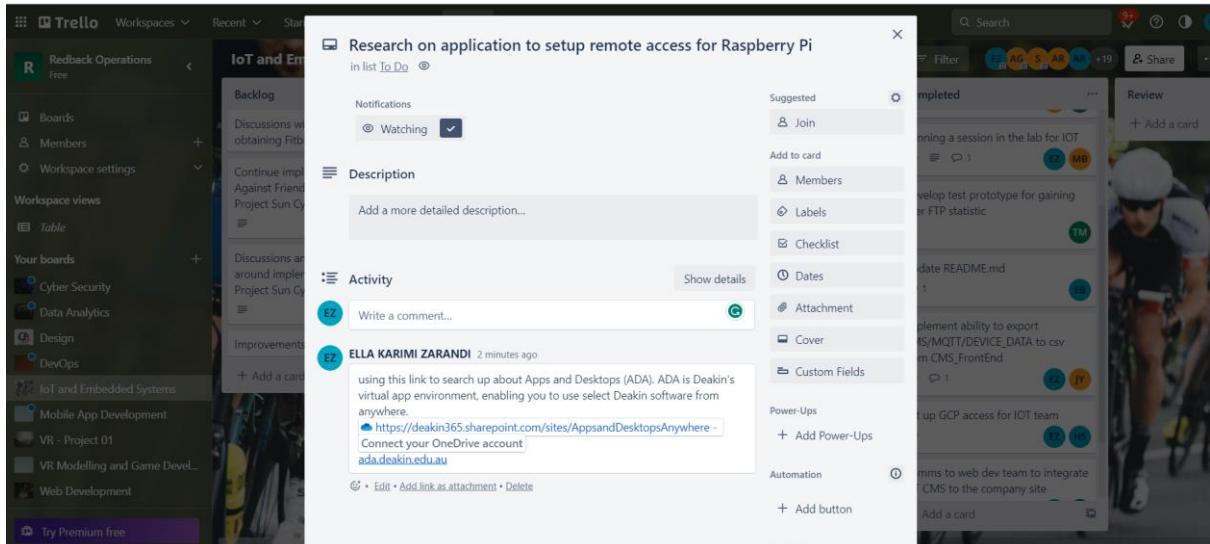
- Sorted out remote access to Rpi

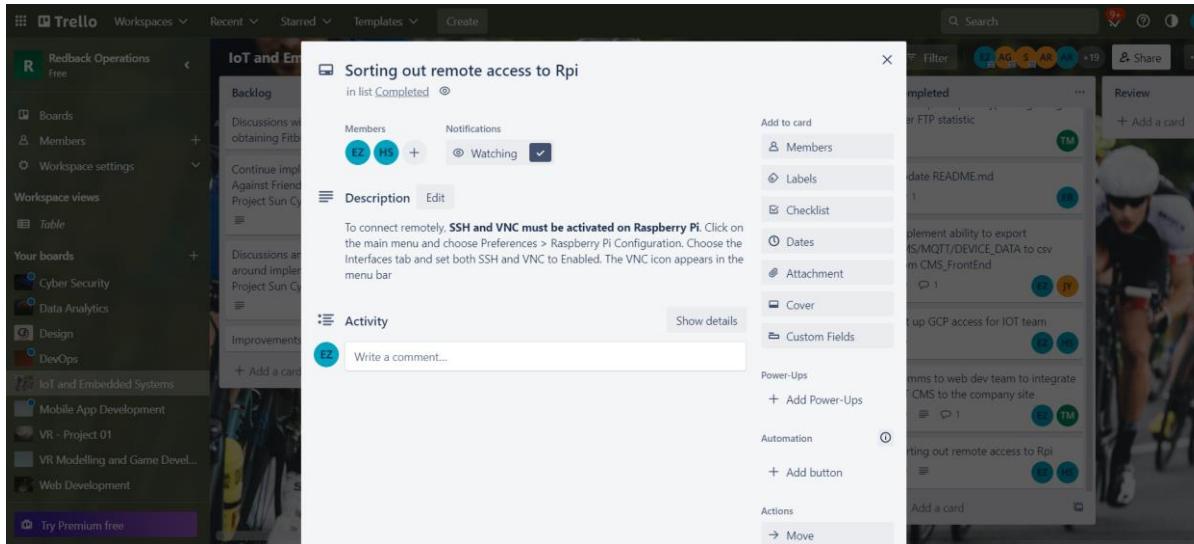
- I searched up and the following solution was found and passed to IOT team, to be implemented:

To connect remotely, SSH and VNC must be activated on Raspberry Pi. Click on the main menu and choose Preferences > Raspberry Pi Configuration. Choose the Interfaces tab and set both SSH and VNC to Enabled. The VNC icon appears in the menu bar

- Also I conducted another research on application we could use for our remote access and shared the result with IOT team (specifically William) to use the ada.deakin.edu.au link to search up about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling students to use select Deakin software from anywhere.

Research on application to setup remote access for Raspberry Pi





- Organized meeting times to address everyone availabilities,

Evidence: [Screenshots](#)

Evidences:

Here provided some evidences and work samples, which gathered from a variety of sources in accordance with my performance through this unit

Below is evidence of taking notes for the company meeting with directors,

Week4 meeting Notes:

-IOT

-Project Briefs

- Thomas was assigned as IOT technical leader
- Thomas and Jarred met with Adrian on Monday
- Gained access to Rpi via ssh for technical team to work remotely on tasks.

SSH activated on Rassberry Pi (For Ethan) (Thomas and Jarred)

- Ethan has Pi at home and has begun running and testing the “start” scripts on his pi

- Cleaned up Raspberry Pi local repo with updated head of IoT repo(Thomas and Jarred)

- About FTP we Thomas done some research

- Research on what FTP is (How the FTP is calculated)(Ella, Thomas)

- Working on how to get the Power's data from the bike's Sensors(Next week)

- Began developing a small prototype using keyboard tests (Ella and Thomas)

Today:

Set up GCP access for IOT team

Next week:

-Worked on how to run all the scripts at the same time:

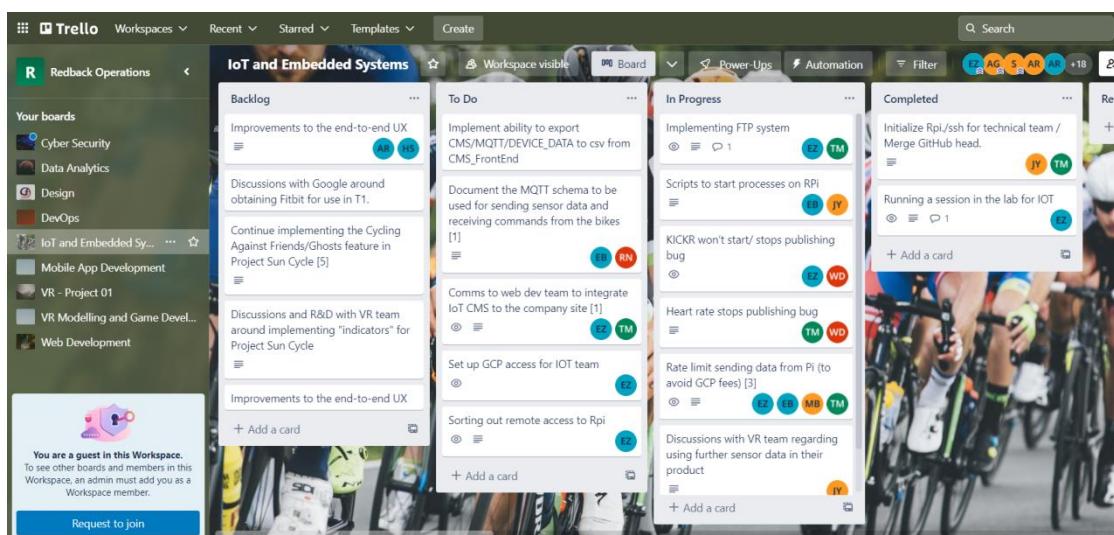
- Kicker is not starting, (William)

- The other scripts start, but after a while they would clash

-Keep working on FTP project

-Trello access has been sorted out for Harris

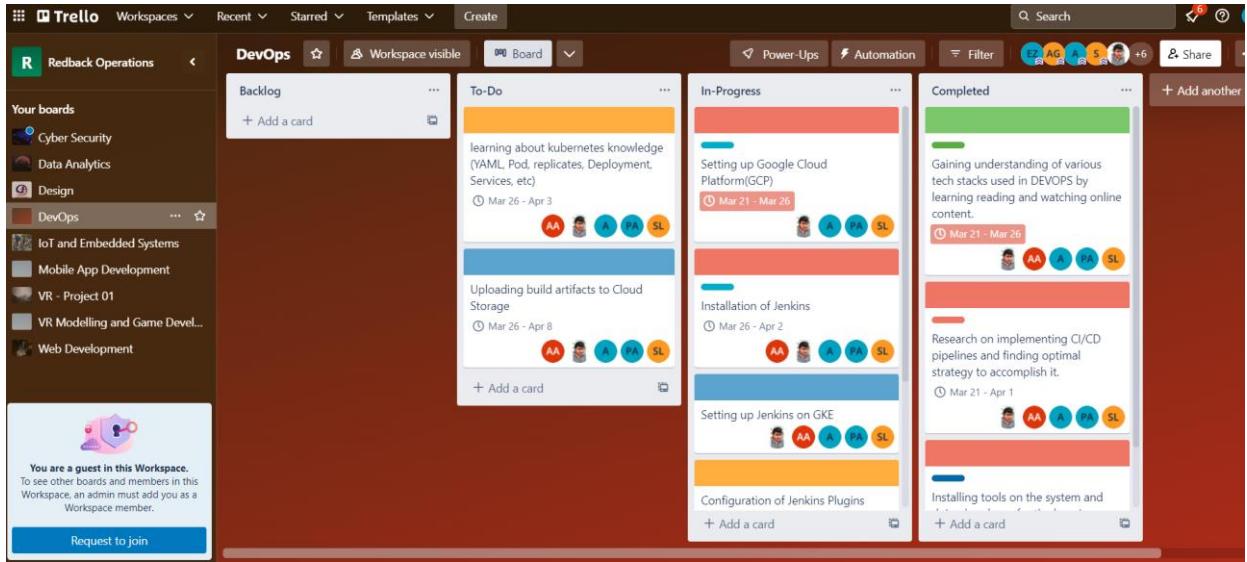
-Havent hear back from Ahmed yet



Dev/ops

- Installation and upskills in “Jenkins”
- Upskilling on other Dev/Ops tools
- Research on CICD

- **Done with Setting up GCP access for IOT team**



Mobile

- **Upskilling on Flutter**
- **Diving in github codes**
- **Cleaned up the codes**
- **Setup the Environment**

Next week:

- **Screen fit: Working on fixing the Login Screen to get fit in the different mobiles**
- **Focusing on last tri Refactor codes,**

Web/ Design

- Working on designing

- Research about previous design.

Week5 meeting Notes:

Cyber Team

- **Change in the structure,**
- **Meeting with Catiline, Nasim and Juakin**
 - Discussion over the projects,**
 - A form for GCP access submitted**
 - Nasim and Catiline are assigned as team leader**

Catiline works on Implementing SIEM into GCP,

- Research, review and test the existing code is done,**
- **Waiting for GCP access**

Nasim is working on new project that is created with Melvin

- **Some research has be done**
- **She is to scope out and assign tasks**
- **Trello admin access provided to her**

Jikuan works on 2FA project

- **Research, review and test the existing code is done,**
 - **QR code is designed and implemented to the website(by only himself)**
 - **Currently working on implementing API into the App**
 - **Some research has be done**
 - **Jikuan is to scope out and assign tasks**
 - **Trello admin access provided to him and he is to update the Trello**
 - **Jikuan is to Walking through the Github as a group**
 - Create forks and branches**
 - How to clone the codes**
- **Jikuan to organise a meeting with Tahlea to clarify her task for her ASAP (its an urgent task)**

DevOps : Talked with Paul, not that much progress in the coding side

- **Doing some upskilling**
- **Researched on implementing CI/CD pipelines and finding optimal strategy to accomplish it.**

IOT

- **Worked on the kickr issue and came up with some strategies**

Thomas:

-Researched about the mac address, then add a command line argument with that mac address and the MQTT broker etc.

for example, when starting the scripts, instead of just calling the .py,

we can try:

```
/Drivers/kickr_climb_and_smart_trainer/incline_and_resistance_control.py --mac_address  
"THE_WAHOO_KICKR_PRODUCT_BLUETOOTH_MAC_ADDRESS" --  
broker_address="HIVEMQ_CLOUD_MQTT_BROKER_ADDRESS_HERE" --  
username="HIVEMQ_CLOUD_USERNAME_HERE" --  
password="HIVEMQ_CLOUD_PASSWORD_HERE" --  
resistance_command_topic=bike/000001/resistance/control --  
incline_command_topic=bike/000001/incline/control --  
resistance_report_topic=bike/000001/resistance --incline_report_topic=bike/000001/incline
```

Jarrod : It might be because of the Bluetooth

-We have three new people that joined in week 3 and 4,

- They are to apply for lab access*
- GCP access is sorted out for them*
- They are to create the fork and branch in Github*

-Organised a meeting for all of them at the lab and asked Thomas to walk them through hardware and scripts (On Tuesday)

- IOT team has till end of next week to make the kicker to run

-I have stopped all other projects, so everyone should gather to the lab, at the same or different time to just work on that bug

- When Raspberry pi is switched off, its impossible to remotely access the pi. do we have permission to leave the raspberry pi running permanently , then there is potentially a way team can ssh into the pi and copy files from their local pc to the pi.

Web-Design

VR

Mobile:

-Fixed 2 bugs related to the screen responsiveness that last week mentioned

-By end of this week the mobile team will finish first agile task is refactor code (current status 70%)

-The plan for next week is to create the UI for new screens, redesign the old screens (if required)

Data/AI

- Feedback analysis models

This project aims to train and prepare a “feedback analysis model” to be used at the time that we would have the “feedback” feature for any of our products.

As currently we don't have a “Feedback” feature in our products, so I will be using an “Amazon food reviews and rating” dataset in csv format (which are text reviews and rating the food out of five stars)

I am going to use two main techniques:

- Vader Model which is a NLTK (python's natural language toolkit) module that provides sentiment scores based on the words used

- Roberta model which is a pre-trained transformer model

-I will explore using some huggingface pipelines for making analysis quick and easy

-Then will conduct analysis and evaluation of the models' performance

-Corporate Reporting

The Corporate Reporting project aims to create static reports such as

-weekly summary reports,

- Ranking analysis reports,

-workout summary reports

Using SQL query on the underlying tables.

There will be Views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

-I work with Sindhuja Manduru

-Had meeting with her and asked her to conduct a research about the current data fields we are collecting/using to generate the reports

-Research on Strava schema,

- Consultation platform features
- What data we are collecting/needed to be collected
 - Performance from Wahoo (Current)
 - Health information
 - Complete surveys/Collecting Feedback

The Cyclist/User Categorisation Project

This project aims to employ machine learning algorithms, including k-means clustering, hierarchical clustering, and principal component analysis (PCA), to comprehensively categorise cyclists based on their unique cycling behaviour patterns.

The data used in this analysis will be collected from the Wahoo Kickr or Wahoo Bolt devices and Heart Rate monitor, analysed to develop a system of labels, spanning Pro, Semi-Pro, Amateur, Casual, Climber, and Sprinter cyclists.

These labels will be further developed through data-driven analysis and may undergo changes, based on the outcomes.

The insights gained from this categorisation will be vital in developing SunCycle and to compete with other competitors such as apps such as Zwift or Strava, that matches cyclists with similarly skilled riders.

Furthermore, the results of the analysis could be used for targeted marketing, sponsorships, and product development.

Will be starting in week 7

Screenshots

EV001 Working on Corporate Reporting project with Sindhuja Manduru

The screenshot shows a messaging interface with two messages from Sindhuja Manduru and one message from Ella.

Sindhuja Manduru:

- 3/26 4:17 PM: Hi Sindhuja
Hope you are well,
- 3/26 4:19 PM: As you and I are going to work on the "Corporate Reporting" project together, how about we organize a meeting together, to have a discussion over the project overall and tasks and responsibilities,

Ella:

- Thanks,
Ella

Sindhuja Manduru:

- 3/26 4:19 PM: Hi Ella
- I am available tomorrow after 1PM
- Any time would be okay for me to have a meeting
- Please let me know

Sindhuja Manduru:

- 4/4 9:51 AM: Could u plz have a look on that file and find out what each field refers to?
- Edited: As for the queries we need to have a clear view of each fields
- 4/4 10:17 AM: I would like u to research over this fields plz

Code Snippet:

```
allowed_fields = [
    "timestamp",
    "position_lat",
    "position_long",
    "distance",
    "enhanced_altitude",
    "altitude",
    "ascent",
    "grade",
    "calories",
    "enhanced_speed",
    "speed",
    "heart_rate",
    "temperature",
    "cadence",
    "# fractional_cadence",
    "power",
    "left_right_balance",
    "gps_accuracy",
    "descriptor",
    "product_name",
    "serial_number",
    "age",
    "gender",
    "weight",
    "FTP"
]
```

Screenshots of Meetings

Organizing Meetings

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ

Reply

ELLA KARIMI ZARANDI 3/7, 1:13 PM Edited
Hi @General

I would like to invite you all for a meeting this afternoon at 4:00pm,

Meeting's Purpose:

- Get to know each other,
- Company introduction,
- Election of team leaders,

I understand, it's a late notice and you might not be able to make it, but still I appreciate your participation if you are available in that time,

All Participants: Please be advised that this meeting will be recorded for later reference. If anyone has objections to this procedure, please voice them now.

[See less](#)

Redback Operations Team Leaders Chat Files +

ELLA KARIMI ZARANDI added JARROD YONG and 5 others to the chat.

3/14 8:12 PM Edited
Hi leadership team.

I would like to schedule a 30 min meeting for tomorrow at 8:00 pm, to find out how so far u have managed to reach out to your team members and if you got a chance to make yourself familiar with your team's projects and involved tech stacks.

Also please text me your email address, so I could set up your admin access to the required tools.

Regards,
Ella

1

YD YIANNIS DOULGERAKIS 3/14 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

3/14 8:15 PM
YIANNIS DOULGERAKIS 3/14/2023, 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

Hi Yiannis, I have posted the list to the General, also have placed a copy in the General files. Let me actually post it here as well

1

Also please be aware that there were some new students that has been just added into the teams this afternoon, so please check the updated file again to be sure that you are also taking care the new students as well

 Finalized members list.xlsx ...

Done, try and let me know if now u have access or not

Guys, tomorrow we have Adrian at the lab, and he is happy to walk u through the sensors, hardware, scripts and any questions u might have, I would like to run this Q/A session once, who is available to attend tomorrow 9:30 to 12:00 tomorrow?

JY JARROD YONG 3/22 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

3/22 10:48 AM
We also need to have another meeting to finalize the projects, as

JARROD YONG 3/22/2023, 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

how about Monday?

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:30 AM
Morning Everyone ,
Here is the link to our tonight's meeting and the Agenda,
[week4.docx](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMtMjI3Mi00ZDc5LThlZjAtMzKzOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d)

Join conversation teams.microsoft.com

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/30 12:14 PM
Hi Leaders, Here is the link to our today's meeting with the company's director, at 1:00pm
[Join conversation](https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKNzgtNrhZi00ZDFILWjmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d)

3/30 1:25 PM
Redback Operations Weekly Meeting-20230330_130402-Meeting Recording.mp4
[Redback Operations Weekly Meeting-2...](#) ...

Invited everyone to an in-person meeting

March 25, 2023

ELLA KARIMI ZARANDI 3/22, 9:14 PM Edited
Good afternoon @General.

I would like to invite everyone to an in-person meeting, where you could enjoy some food and share some fun with friends.

Also, we could take this opportunity to catch up and get to know each other.

This event will be held at 12:00 pm on April 5th at The designated Capstone space, located on the ground floor of Building T in the Burwood campus.

Everyone is encouraged to attend and enjoy the food and company.

Kindly RSVP by June 29th.

Have a great evening,

Ella Zarandi

See less

1 1

2 replies from you and MIRIAM

[Reply](#)

Encourage attending the meetings

A Redback Operations Team Leaders Chat Files +

care of it from there

March 22

3/22 7:22 PM with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon **Everyone**,

Here is the link to our tomorrow meeting with our company's director,
Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZkNzgtINTRhZi00ZDFILWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X teams.microsoft.com

A Redback Operations Team Leaders Chat Files +

so far could u plz let me know what u have done to get in touch with your team? created a chat group? collected more info? had your first meeting or have organized for?

as I have meeting with company director at 1:00pm, so I could update him,

also I would like all of u attend to these meetings from next Thursday, or even if u are available, from today

YD YIANNIS DOULGERAKIS 3/16 6:42 AM
Is it 1pm today the meeting?

3/16 6:43 AM with Kevin, which is the company director

YD YIANNIS DOULGERAKIS 3/16 6:43 AM
I'll try my best to join

So shoot me an invite please

3/16 6:45 AM https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZkNzgtINTRhZi00ZDFILWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 Join conversation X teams.microsoft.com

here is the link for everyone who wants to join, have a great day everyone 

Redback Operations IOT T12023 Chat Files +

3/27 4:52 PM
Week 4

Hi everyone,

Since we have finalized the projects and also each member's tasks are assigned, so everyone can start working on their deliverables for their projects for this trimester.

As a team we should have a weekly meeting to update the team about the projects' progress:

We are also required to:

- Keep a log of all meetings minutes/notes
- Keep a log of all individual contributions
- Update Trello board as we go

See you in our tomorrow meeting. If you are not able to make it, please let me know to organise a 1:1 meeting for you.

Regards,
Ella

3/27 7:36 PM
GCP Access have been granted - I'll set this up during the week.

Dear Ella,

Redback Operations IOT T12023 Chat Files +

3/22 11:06 PM
JARROD YONG 3/22/2023, 10:27 PM
As a heads up Ella my work schedule is inconsistent so I may end up missing a few

Each meeting not taking more than 15min, now the meeting that I'm running in AI only takes 10min, they already have started the projects, but in IOT we even haven't assigned the projects yet, as no one attends the meetings.

meetings are just about catch up and updating on the project's progress, to able me to complete our weekly team reports

If these times are not working with u guys we have to allocate another time which meets everyone's availability

Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

And let me know about your availability

AHMAD RIAZ 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM
Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

I am good with this

ETHAN BENJAMIN 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM
Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

Perfect for me

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

3/21 11:20 AM
ARJODH ARJODH SINGH 3/21/2023, 11:12 AM
Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM
I would like to let you know that I have scheduled two 15 min weekly meetings, as below:
Wednesdays at 8:00 pm.
Fridays at 8:00 pm.
Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

Scheduled meeting's time based on everyone's availability

The screenshot shows two Microsoft Teams messages. The first message is from Ella Karimi Zarandi to the Redback Operations IOT T12023 channel. It contains a note about running two weekly meetings on Tuesdays at 8pm and Fridays at 5pm, with a request for at least one attendance. The second message is from Ella to the 2023T1 Capstone Redback Leads channel, detailing her availability (free after 9pm) and scheduling preferences (two meetings before Thursday). A third message from Yiannis Doulgerakis is also visible.

Redback Operations IOT T12023

3/23 11:13 AM
To meet everyone's availability we will run two meeting sessions every week as below:
Tuesdays 8pm
Fridays 5pm
All members are required to attend at least one of the meetings to give the team a heads up on your task/project progress
Regards,
Ella

2023T1 Capstone Redback Lead...

3/16 7:54 PM
I would like to have at least two meetings before next Thursday with all leaders. (as a group or 1:1).
One meeting for this week should take place before Sunday, so my available time is as below:
For group meetings:
Tonight at 9:00 pm,
Tomorrow at 8:00 pm.
1:1 meetings: Tomorrow between 12:00 to 2:00 pm.
I would like to get your response ASAP to be able to schedule my time.
Meeting Agenda:
-Have you already got in touch with your team.(created a chat group, walked through the docs. ...)
-Access to the required tools, especially git hub, and Trello boards.
-Q/A about how to use Git hub (setting access for your team members, cloning the codes. ...)
-Q/A about how to use Trello
-Walking through handover Docs.
-Do u have any plan in your mind (think about what u would like to achieve on this Tri)
-do u need any assistance with your planning.
Also, I would like u all to add me to your team's chat group plz.
Regards,
Ella

YIANNIS DOULGERAKIS 3/16 7:55 PM
i am free tonight at 9pm

Meeting Agenda

The screenshot shows a Microsoft Teams message from Ella Karimi Zarandi to the 2023T1 Capstone Redback Leads channel. It includes a meeting agenda table and a detailed agenda list. A file named "MEETING AGENDA.docx" is attached.

2023T1 Capstone Redback Lead...

3/16 7:55 PM
I am free tonight at 9pm

3/21 11:35 AM

MEETING AGENDA	
Date:	22/3/2023
Time:	8:00 PM

Agenda details

- Follow up on admin tasks:
 - Access set up to Trello boards for your team members,
 - Access set up to Github for your team members,
 - GCP access request form done?
- week 3 – planes to achieve
 - Finalize the team's projects and each member's tasks,
 - Start project's processing,
 - Organize member's access to Github
 - Organize member's access to the required tools
 - Create your Agile (Trello boards, Road map, ...)
- Next meeting will be held on March 24t

MEETING AGENDA.docx

 Imai, Kevin  Chat Files +

3/22 9:55 PM
Good afternoon Kevin and Imai,
Here is the agenda for tomorrow's meeting.
Have a great evening,
Ella

 MEETING AGENDA (1).pdf ...

1 heart

March 30

3/30 11:29 AM
Morning Kevin and Imai, Here is the agenda for our today's meeting, sorry for late submission

 RedbackWeek4.docx ...

April 2

 2023T1 Capstone Redback Lead...  Chat Files Onboarding Report +

4/5 1:12 PM
Good afternoon Everyone

Here is the link and Agenda for our tonight's meeting.

IMPORTANT:

If you are not able to attend the meeting, please send me a report to indicate your team's progress and workflow over last the week.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMj3Mi00ZDc5LThIZjAtMzKOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Regards,

Ella

 week5.docx ...

 Join conversation X

teams.microsoft.com

 Redback Operations Team Leaders  Chat Files +

care of it from there

March 22

3/22 7:22 PM
with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon Everyone,

Here is the link to our tomorrow meeting with our company's director.

Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKnzgtNTRhZi00ZDFiWjlmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X

teams.microsoft.com

Meeting Minutes

WD WILLIAM DJOJODIREDO Chat Files Organization Activity LinkedIn +

WD WILLIAM DJOJODIREDO 4/4 3:25 PM
sure, what time are you available?

4/4 3:32 PM
10:00 am?

WD WILLIAM DJOJODIREDO 4/4 4:16 PM
ok sure


April 5

WD WILLIAM DJOJODIREDO 4/5 9:58 AM
hey Ella, want to have the meeting now?

4/5 9:59 AM
Sure let me call u

WD WILLIAM DJOJODIREDO 4/5 9:59 AM
ok

4/5 10:37 AM
Minute of our meeting:
-william to create a fork to the IOT Girhub Repo
-Willam to research the possible response that might cause the "kicke start bug@
- William to come up with some solutions for those problems
-Willan to attend to the Tusday meeting at the lab

JIKUAN LIU Chat Files Organization Activity LinkedIn +

4/5 12:40 PM
<https://trellio.com/b/kj9wulDB/cyber-security>

Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...
trellio.com

Transcript

JIKUAN LIU 4/5 12:50 PM
[2-Factor Authentication implementation for Redback.docx](#)

2-Factor Authentication implementation...
personal > s222034126_deakin_edu_au

April 6

4/6 10:19 AM Edited
Here is a summarise of our meeting
-Walking through the Github as a group
-Create forks and branches
-Update the Trello with the "done" tasks (the QR code is designed and implemented to the website)
-Currently working on API to implement to the app
- Organise a meeting with Tahlea to clarify her task for her ASAP (its an urgent task)

Redback Operations IOT T12023 Chat Files + March 21

3/21 9:45 AM
For the people that could't make the meeting yesterday, we discussed over following:

Agenda:

- Github and Trello access
- Review the projects
- Google cloude

Name	Task
WILLIAM DIOJODIREJO	Create FIT file/upload to Wahoo API
JARROD YONG	Scripts to start processes on RPi
ETHAN BENJAMIN	Improvements to end-to-end UX
THOMAS MORGAN	Scripts to start processes on RPi
MOMIN KHALID BUTT	Limit rate-of-transmission from RPi (GCP cost)
AHMAD RIAZ	Heart rate publishing issue
	Limit rate-of-transmission from RPi (GCP cost)
	Ethics submission for Gas Sensor System
	Ethics submission for Gas Sensor System

Task for this week

- Resourcing (Github, handover doc, other resources in the team channel)
- Planning (Trello, Road-map)

Redback Operations IOT T12023 Chat Files +

New ticket made for integrating KICKR speed for use in controlling the fan

1

Tuesday 9:01 PM
Briefing of our tonight meeting:

Thomas to search up if we could run the work outs and FTP scripts locally through the PI, without needing the APP running.

Thomas to create new tasks in Trello board, about running the fan and Kickr scripts,

William to search about the existing apps and tools to able the IOT team get access to the PI remotely,

Momin to start research about how we could Use kickr data values to control/adjust fan's operation

SINDHUJA MANDRU Chat Files Organization Activity LinkedIn +

SM SINDHUJA MANDRU 4/4 10:21 AM Yeah sure

4/4 10:47 AM
You could research about each field through "online wahoo documentation" which is well documented, Start here: <https://developer.garmin.com/fit/protocol/>
It is the GARMIN Documentation, Garmin own FIT files, So this is **general** infomation

FIT Protocol | FIT SDK | Garmin Developers X
FIT Protocol
developer.garmin.com

4/4 6:55 PM
Hi Sindhuja
Do we have any update to run our meeting tonight?

SM SINDHUJA MANDRU 4/4 6:57 PM
Hi Ella
Going through the fields in data file
Updated trello broad till yesterday
Do you want to discuss anything

4/4 6:58 PM
No, I also don't have any update to bring up

Provided 1:1 Support

The screenshot shows a messaging interface with a header bar featuring the user's profile picture (NE), name (NASIM EMADI), and various navigation links: Chat, Files, Organization, Activity, LinkedIn, and a plus sign for more options. A modal window is open, displaying a GitHub repository overview for 'redbackoperations' with a green checkered icon, a link to 'https://github.com/redbackoperations', and a message stating 'redbackoperations has 9 repositories available. Follow their code on GitHub.' Below the modal, a message from the user states: 'as all the Repos are public if u just provide them this link they will be able to clone, fork and create their branch'. The main conversation log shows the following messages:

- NASIM EMADI 4/3 11:27 AM: Should I create new folder T1_2023 ?
- My project is new initiative
- 4/3 11:27 AM: but I assign u as collaborator, meaning its just u that are able to merge to the main branch
- NASIM EMADI 4/3 11:27 AM: Thanks
- 4/3 11:27 AM: I suggest, 1
it's your go, do as u think works better for u and your team

NASIM EMADI Chat Files Organization Activity LinkedIn +

4/3 11:30 AM
U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch, they can submit a request, its gives u the opportunity to check their work first and then merge itg

NASIM EMADI 4/3 11:30 AM
ELLA KARIMI ZARANDI 4/3/2023, 11:30 AM
U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch...

Yep, Makes sense

thanks

April 5

NASIM EMADI 4/5 7:49 PM
Hi Ella, I am ready if you want to have a quick call here

NASIM EMADI 4/5 7:56 PM
nemadi@deakin.edu.au

4/5 7:59 PM
<https://trello.com/b/kj9wulDB/cyber-security>

 Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...

trello.com

AHMAD RIAZ Chat Files Organization Activity LinkedIn +

AHMAD RIAZ 3/18 3:14 PM
Hi Ella, Can you please add me to the project group chat please

Just updated on my side already added thanks

3/18 4:10 PM
I believe I did, let me check

Redback Operations IOT T12023   

I had the same issue about the Trello room does not appear if you're a member of the board with specific access, if not we would include this task as "Overall report" does not

AHMAD RIAZ 3/18 4:10 PM
I have been trying the same to get project up through them and see what's up, ill need to understand how to do it with the understandable first or Member

10:00 AM
Morning team,
Thanks Thomas for your submission on the
Still I'm waiting for other members' pending
Apprds.
Ria

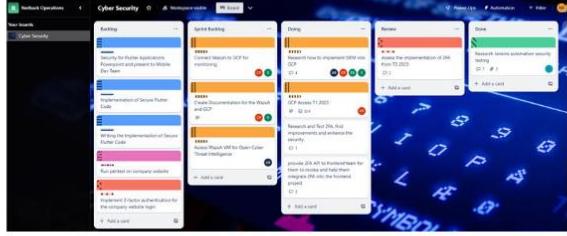
Ella Karimi (EllaKarimi) added Ahmad Riaz to the chat and shared all the history.

Ella Karimi (EllaKarimi) added Ahmad Riaz to the chat and shared all the history.

Wednesday

NASIM EMADI Chat Files Organization Activity LinkedIn +

NE NASIM EMADI 4/5 8:27 PM
Just a quick one. Should I add new board for my project in this new trello or add my project tasks with different lable/colour to existing board?



4/5 8:50 PM
It's not the one that shared the link with u, right?

I think it's the one that Melbin has created and it's only him with Admin access

NE NASIM EMADI 4/5 8:51 PM
ELLA KARIMI ZARANDI 4/5/2023, 7:59 PM
<https://trello.com/b/kj9wulDB/cyber-security>

The link is the trello you just shared

4/5 8:54 PM
Yep, that's the correct one

In regards to creating new board or working on the existing one is all up to u, but I suggest that u work on this one, so we could have all Cyber projects in same place

JIKUAN LIU Chat Files Organization Activity LinkedIn +

Join conversation teams.microsoft.com

Please be sure u have updated 2FA Trello board, I would like to know about your team members' tasks and the project's progress

Please be sure you are prepared for the meeting

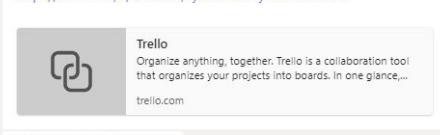
JIKUAN LIU 4/5 12:23 PM
somehow, I can't edit the content of the board in Trello

4/5 12:26 PM
are u free now?

JIKUAN LIU 4/5 12:28 PM
yes

4/5 12:29 PM
Bring up the Trello board and call me plz

JIKUAN LIU 4/5 12:34 PM
<https://trello.com/b/R7Fls6Ax/cyber-security-redback-2023>



SINDHUJA MANDURU 3/17 11:51 AM
Can you please let me know the team name in teams

SM Couldnt find it

SM Got it just now
1

SM Thank you

SM Anything I have do by this week?

3/17 11:56 AM
yep, please listen to the recorded meeting, then u will find a doc uploaded to the group, if u have any ides that we could consider it as our tri goal, add it to the doc

SINDHUJA MANDURU 3/17 11:56 AM
sure

3/17 11:59 AM
I also posted a welcome message in the AI chat group

SM SINDHUJA MANDURU 3/17 11:59 AM
yeah got it

TIM MAJOR Chat Files Organization Activity LinkedIn +

TM Hi Ella. I hope you're well.

I am enrolled in T1/23 for the Capstone B project as a senior. I was under the impression that if we completed the units in consecutive trimesters we would be automatically added back into the company and team that we were a part of in the previous semester. However, it seems that this isn't the case. I'll add the link of the post from Michelle Yu ([Michelle Yu: Company Registration](#) posted in SIT378-SIT782 Team Project (B) - Execution And Delivery 2023 T1 / General at Monday, 6 March 2023 4:23:43 pm)

As a result, I am also not listed as a member of the team on the Excel spreadsheet containing the list of members.

I have spoken to Caitlin and have been told the the Cyber team has had some leadership issues, but I haven't been able to effectively communicate as I haven't been added into the chat. She has tried to invite me but I haven't received anything.

I was wondering if there was anything that you were able to do from your end to get me going? I have been working on my own research at this stage, so I have a few hours in my logbook already.

Thank you and kind regards,
Tim

Join conversation
[teams.microsoft.com](#)

Sunday

Sunday 5:41 PM Edited
Hi Tim, I will get in touch with Caitlin, as its she that is responsible to add u to her channel,

u could refer to this conversation and notify her that if she is not able to add u to the channel, then she need to find a solution about that.

TIM MAJOR Chat Files Organization Activity LinkedIn +

Hi Ella, I hope you're well.

I am enrolled in T1/23 for the Capstone B project as a senior. I was under the impression that if we completed the units in consecutive trimesters we would be automatically added back into the company and team that we were a part of in the previous semester. However, it seems that this isn't the case. I'll add the link of the post from Michelle Yu ([Michelle Yu: Company Registration](#)) posted in SIT378-SIT782 Team Project (B) - Execution And Delivery 2023 T1 / General at Monday, 6 March 2023 4:23:43 pm)

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I was wondering if there was anything that you were able to do from your end to get me going? I have been working on my own research at this stage, so I have a few hours in my logbook already.

Thank you and kind regards,
Tim

Join conversation
[teams.microsoft.com](#)

Sunday

Sunday 5:41 PM Edited
Hi Tim, I will get in touch with Caitlin, as its she that is responsible to add u to her channel,

u could refer to this conversation and notify her that if she is not able to add u to the channel, then she need to find a solution about that.

Sunday 5:47 PM
Hi Caitlin, please add TIM MAJOR to your chat channel, as he seems that he doesn't have any idea of what's going on in the project, as he doesn't have access to the chat channel, so he is not able to get any update or attend to the meetings.

thanks

CAITLIN PARKER Sunday 6:20 PM Edited
Hi Ella, I already tried before he messaged you. I think only Melvin has access to that channel as the owner. This is one of the reason why I recommend not making all brand new stuff for this trimester and using existing stuff that other people have access to and can be added in, but I got told no and that you having access would be enough.
Are you unable to add him?
If not than unfortunately there is not much I can do. I have already sent a request to Melvin for Tim to be added. All I can recommend is maybe you as the company lead to tell people to start using the channel in the company team

Sunday 9:01 PM
using the channel is something that team leaders decide about, I think the only way is u guys use another channel, U might think about using the company channel, or create a new one

I really dont mind what u use, I just want u guys have a channel that u are able to add/edit stuff

Tuesday

TIM MAJOR Tuesday 5:50 PM
Hi Ella, thank you for doing that. Caitlin had tried to send me an invite previously but it just never came through. I have been added to the channel! 

Tuesday 6:14 PM
Good to hear that you are added to the channel 😊

HILAL IRSHAD Chat Files Organization Activity LinkedIn +

HILAL IRSHAD 3/19 10:01 AM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.
 1

3/19 6:01 PM
HILAL IRSHAD 3/19/2023, 10:01 AM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.
I posted some feed back and resources for u in the leadership channel

HILAL IRSHAD 3/19 6:04 PM
I saw it but it wont be possible for me to complete all the road map can I choose few and work on it
 1

HILAL IRSHAD 3/19 6:09 PM
Are you coming tomorrow to University?
Burwood Campus?

3/19 8:01 PM
HILAL IRSHAD 3/19/2023, 6:09 PM
Are you coming tomorrow to University?
yep, will be there around 10:00 am I think

3/19 8:12 PM
Hilal, could u send the final edited report plz
plz post it to the leadership channel

SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/26 8:22 PM
Hey Ella, I just wanted to be in Tableau Dashboard team but I think I am not into any right now. I am very clueless right now, that where I could find that I have to go to check, that I have been allocated to a team.

3/26 8:25 PM
Hi Saransh, Data/AI team leader is Mark. Please get in touch with him to add u to the project

SARANSH GUPTA 3/26 8:29 PM
Thanks Ella for quick response.
 1

March 28

SARANSH GUPTA 3/28 7:42 AM
Hey Ella, I had a word with Mark. He told me that you are the only one who has joined late into the unit. He told me to come up with a new project. Is there any way that I could contribute in the earlier projects as I am a junior at this stage and this is all a new thing for me?

3/28 8:06 AM
Hi Saransh, let me talk with Mark to see if we can join u to one of the current projects
Will update u by tonight

SARANSH GUPTA 3/28 8:09 AM
It will be great, the only thing was I came late in Australia. I will try my very best to catch up as I am done with most of the things now.
 1

3/28 8:11 AM
I do my best to place u in one of our project.
 1

SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/29 7:16 PM
Hey Ella, I had a word with Prastut. Can I work under him in Data Warehouse? Or the project can only be done by 1 or 2 people in it?

3/29 7:33 PM
no its fine if he is happy, u could share the task/project 😊

if it is finalized let me know to add u to the AI team, under that project

SARANSH GUPTA 3/29 7:37 PM
Yeah, he is fine with it

3/29 7:38 PM
cool, please let me know which project is it?

SARANSH GUPTA 3/29 7:39 PM
Data Warehouse

3/29 7:49 PM
I asked mark to add u to the AI group as well

Sunday

SARANSH GUPTA Sunday 2:17 PM
Hey Ella, I just want to know one thing, if I am not a leader of the group, I won't be able to aim distinction or higher in this unit?

Sunday 5:34 PM
Hi Saranch, of course u can, U only need to be sure that you collect some evidence that shows u have done some project managing activities, such as creating/updating the cards in the Trello boards, organising some meetings or ...

I suggest u to also ask Atabak(our unit chair) what esle u could do to show that u deserve to get HD in terms of ledership requirements

Supported Juniors On there presentation

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ..

Lennon Chang 3/30 10:48 AM
Dear leadership team,

The junior members are asked to do a presentation about your company in the Week 5 Class. Could you please help identify one to two junior students to represent your company to do the presentation? It will be similar to the presentation you did in week 4 in your class. The juniors can use the same PowerPoint your company prepared for the presentation this week but please make sure that they keep the presentation within 5 minutes.

Thank you and please let me know if you have any question.

Regards,
Lennon Chang, Unit Chair, SIT374/764

3/30 11:23 AM

Lennon Chang 3/30/2023, 10:48 AM
Dear leadership team, The junior members are asked to do a presentation about your company in the Week 5 Class. Could you...

I will work on it and will update u Lennon, Regards, Ella

1

Q Search ... 

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report + 

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ... 

March 31

3/31 11:13 AM Edited

IMPORTANT

Hi Everyone,

We are still looking for juniors to present for our company on Monday. It will be 5 min presentation and 5 min Q/A, and I would like to have at least three juniors work together through this presentation, to share the task load.

For now, we only have one member from AI team.

I would like to ask you to introduce a junior in your team to participate. And if u are a Junior leader, it would be great if u take care of it.

The presentation slides are prepared and I have placed them in the File in this channel, and u only need to present it.

I also am here to support you guys, if you need any assistance.

The presentation will be running on coming Monday(3.4.23) at The ProjectA session. The scheduled presentation time is as bellow:

DEADLINE: 5:00 pm This afternoon

Lennon Chang	10:54 AM
9:20 AM	Chameleon
9:30 AM	DataBytes
9:40 AM	Gopher
9:50 AM	Hardhat
10:00 AM	Redback
10:10 PM	Thoth Tech

Q Search ... 

A Redback Operations IOT T12023 Chat Files + 

March 30

3/30 11:24 AM

Dear leadership team,

The junior members are asked to do a presentation about your company in the Week 5 Class. Could you please help identify one to two junior students to represent your company to do the presentation? It will be similar to the presentation you did in week 4 in your class. The juniors can use the same PowerPoint your company prepared for the presentation this week but please make sure that they keep the presentation within 5 minutes.

Thank you and please let me know if you have any question.

Regards,
Lennon Chang, Unit Chair, SIT374/764

morning team.

Here is I have received about junior's week 5 presentation, who would like to take part? I though first I share it here in our team, but I need response by 2:00 pm. If I dont hear back from u, then I will post it in other teams as well

March 31

3/31 11:35 AM Edited

Hi ETHAN BENJAMIN HARIS SAJJAD JARROD YONG THOMAS JAMES MORGAN WILLIAM DJOJODIREJO , I need one of u to participate in the presenting our company presentation on Monday, at ProjectA session, we already have a member from AI, but as its a Q/A seession after the presentation, I would like someone be there from IOT team, to answer the questions related in our team. The presentation is prepared and u only need to present it. It's onle 10min presentation and redback will presenting at 10:00 am.

 UpdatedCompanyStructurePresentation... ...

 Redback Operations IOT T12023 Chat Files +

ETHAN BENJAMIN 3/31 4:07 PM
ELLA KARIMI ZARANDI 3/31/2023, 11:35 AM
Hi
ETHAN BENJAMIN HARIS SAJJAD JARROD YONG THOMAS JAMES M...
Hi Ella,
In a worst case situation I am willing to do it but that would be at 1am for me so I'd prefer not to if possible.
But if need be and no one else is able to I am willing to.

April 2

ETHAN BENJAMIN 4/2 7:16 AM Edited
ELLA KARIMI ZARANDI 3/31/2023, 4:07 PM
Hi Ella, In a worst case situation I am willing to do it but that would be at 1am for me so I'd prefer not to if possible. But if need be and no...
Ethan many thanks for that offer. Sorry I'm responding late, as I was waiting for other juniors to reply back, but we only have two people that are happy to take part in the presentation, but again haven't heard back from one of them during these two days. I know how it might be hard for you to present that late at night, but will be a great support for the whole company, if you could participate in the junior presentation, I will also add you to the Junior presentation channel, there you could have discussion over this presentation with other two members.

ETHAN BENJAMIN 4/2 7:17 AM
cool


April 4

Search

 THOMAS JAMES MORGAN Chat Files Organization Activity LinkedIn +

March 30

3/30 11:30 PM
Hi Thomas,
The junior members are asked to do a presentation about our company in the Week 5 Class.
So we need one to two junior students to represent our company to do the presentation. The juniors can use the same PowerPoint that seniors prepared for the presentation this week, but please make sure that you keep the presentation within 5 minutes.
Please let me know if you are able to take care of this task, as I'm sure you are capable of doing that, and it's so easy. I also could help you in all the process.
Regards,
Ella

March 31

THOMAS JAMES MORGAN 3/31 3:41 PM
Hi Ella, my father has had an issue and I've had to take him to the hospital and care for him this weekend so I won't be able to attend tonight's meeting and I won't be capable of preparing for this presentation, sorry

3/31 5:04 PM
oh so sorry to hear that, hope he feels well soon. don't stress, we will be taking care of the presentation

March 31, 2023

 ELLA KARIMI ZARANDI 3/30, 11:27 PM Edited
Hi General
The junior members are asked to do a presentation about our company in the Week 5 Class.
So we need one to two junior students to represent our company to do the presentation. The juniors can use the same PowerPoint that seniors prepared for the presentation this week, but please make sure that you keep the presentation within 5 minutes.
Please let me know if you are able to take care of this task, I also could help you in all the process.
Regards,
Ella
[See less](#)

 UpdatedCompanyStructurePresentation.pptx

4 replies from you and MIRIAM

Reply

Search

Juniors'CompanyStructurePres... Chat Files +

ELLA KARIMI ZARANDI added HARIS SAJJAD and MIRIAM LLAUCE COTRINA to the chat.

3/31 5:15 PM Hi team, I have created this chat group for u to be able to discuss over the Junior's presentation and get prepared for Monday

ELLA KARIMI ZARANDI changed the group name to Juniors'CompanyStructurePresentation.

3/31 5:18 PM It will be 5 min presentation and 5 min Q/A, and I would like to have at least three juniors work together through this presentation, to share the task load.
The presentation slides are prepared and attached to this post. You are welcome to use the same one or create yours
I also am here to support you guys, if you need any assistance.
The presentation will be running on coming Monday(3.4.23) at The ProjectA session. The scheduled presentation time is as bellow:

9:20 AM	Chameleon
9:30 AM	DataBytes
9:40 AM	Gopher
9:50 AM	Hardhat
10:00 AM	Redback
10:10 PM	Thoth Tech

UpdatedCompanyStructurePresentation... ...

April 2

Search

Juniors'CompanyStructurePres... Chat Files +

ELLA KARIMI ZARANDI added ETHAN BENJAMIN to the chat and shared all chat history.

ETHAN BENJAMIN 4/2 7:25 AM hey ella. could you grant me access to the presentation file please?

4/2 7:28 AM sure, as u are just added to the group that's why u are not able to access to that. I will upload the file again

UpdatedCompanyStructurePresentation... ...

Edited
ETHAN BENJAMIN please let me know if u are not get access to the new one

Provided Team leaders with Resources, Feedbacks and Guidance on Completing the Team Reports

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/16 10:40 PM Edited
Hi Folks,

PLEASE CONSIDER THIS, AS URGENT TASK.

I would like you all complete and submit your team's report, objectives and goals by tomorrow 8:00pm, it will only take u about 1 hour, and as we need to submit this task by Sunday, so I would like you all to do your best to complete it by tomorrow night. For your information, here is the latest company report,

Company ReportT32022.pdf ...

3/16 10:51 PM Edited
To make it easier for u, here is a template that u guys could complete your team's info through it,

Template (1).docx ...

MELVIN MANOJ 3/19 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups.

Cyber Security Team 2.1P Updated .docx ...

BRIAN DANG 3/19 5:30 PM
Updated document for Web-Design team
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0elLyJgyK9GaU/edit?usp=sharing

Web Design
Team Name: Web Development and Design Overview, Goals, and Objectives The web development and design...
docs.google.com

3/19 8:31 PM
MELVIN MANOJ 3/19/2023, 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups. Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members		
Member Name	Role	Task
Adam Namey	Junior	Incident monitoring (Research and Implementation strategy to place in GCP environment)
Carlo Estells	Junior	Incident Monitoring [Research and Implementation]
Gillian Parker	Senior	Incident Monitoring (Research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobochukwu Uzoka	Junior	

ARJODH ARJODH SINGH Wednesday 12:00 AM
Devops team trello board:<https://trello.com/b/SvbARmmY/devops>

Roadmap.docx ...

Wednesday 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and ...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.

DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

3/19 10:00 AM

THE TUNG TRUONG 3/18/2023, 9:14 PM

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...

Hi Tung,

Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section,

Please focus on **APP RESPONSIVENESS** as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part,

AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not

You also may refer to the attached pdf file to get access to the "open issues" and "Road map".

 Mobile team.pdf

...

1

3/19 10:40 AM

Some tips when are working on the team report:

- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (EX: the reason you think that project is required to be added/improved or what problems would be solved),

- In the " Deliverables" section, you would breakdown your projects ~~to~~ to the Deliverables features/tasks to assign to your team members to get developed and delivered,

3/19 11:05 AM

HILAL IRSYAD 3/19/2023, 9:42 AM

 VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features, (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only " Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product,(please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

 VR.pdf

...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM

 DevOps.docx

Perfectly done, Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives " section,

ARJODH ARJODH SINGH 3/19 11:36 AM
Hi Ella,
Are you referring to this piece:

Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project contents from Github into the Google cloud platform. To define more clearly, the culmination of all works from the Redback Operations Team was created into a Github repository ready for access by all its team members and by the public. However, the plethora of code-files need to be uploaded as a web application in an online platform. For this process, we are using Google Cloud Platform as our deployment structure. Moreover, the code-files are created to accommodate for "containerization" of the applications. Some great advantages of this are cost cutting and easy test and deployment cycles. So, our project focusses on deployment of these docker applications into the Google Cloud Platform. Which prepares the "containerised" for access to the internet.Tech Stack:

1

3/19 12:58 PM

ARJODH ARJODH SINGH 3/19/2023, 11:37 AM
Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project...

Yep

ARJODH ARJODH SINGH 3/19 1:18 PM
Ella- I've updated that section. Please have a look and let me know.

DevOps.docx ...

3/19 2:05 PM Edited

BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC T2j_jW0ellJgyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info,

PLEASE assign tasks to the team members,

 Web-Design.pdf ...

Hi folks, In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report ➤ Community ➤ How to participate ➤ Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage, due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document, I will update the document based on your feedbacks

 1

3/18 9:13 PM Edited

MELVIN MANOJ 3/18/2023, 5:06 PM

 Cyber Security Team 2.1P.docx

Perfectly Done, Thanks Melvin, and the Cyber team,

I noticed that you have come up with two projects so far. As we have 9 people in the Cyber team, I would like we add more features/projects to the team, would really appreciate it if you and your team keep diving into the docs and projects, or conduct some research to come up with more goals, alternatively, I would sit with Jesse this week to discuss this matter future.

THE TUNG TRUONG 3/18 9:14 PM Edited

ELLA KARIMI ZARANDI 3/18/2023, 8:53 PM

Hi the Tung and thanks for submitting your team report, Here are some feedbacks: -Please fix all the spelling/grammar mistakes, -In th...

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is really hard to assign the task to the member now. Because we are running on Agile, tasks will be changed after a sprint. So I can only write it in a general way. Anyway, please have a look and give me feedback. Thanks Ella!

THE TUNG TRUONG 3/18 9:23 PM

Btw, I notice that on the Figma the 2 features Marketplace and the Buy/Sell is not exist yet. So I need the help from the Design team to create this two features. For now we will focus on resolving the current issues first (implement the validation...)

BRIAN DANG 3/18 9:31 PM

https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0ellyJgyK9GaU/edit?usp=sharing

Informed members of Company structure submission

ELLA KARIMI ZARANDI 3/26, 10:23 PM

Hi @General

I would like to confirm that the company's report (which is the Task 2.1 requirement as well) has been submitted by me on behalf of seniors and by THOMAS JAMES MORGAN on behalf of juniors,

[See more](#)

 UpdatedCompanyReportT12023.pdf ...



Company Presentation

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/22 4:55 PM
Hi team,
We are required to present our Company structure and objectives in the **Week 4 lecture (Tuesday 11 am)**.
Please start to prepare your presentation to add it to the Powerpoint that I will share here tomorrow.
We will discuss this further, in our tonight meeting.
Regards,
Ella

MARK TELLEY 3/22 6:41 PM
Hey Ella, is a 3 - 4 min presentation sufficient?

3/22 7:20 PM
Yep Mark, its a 5min presentation, I would say for each team we could spend about 40sec, 1

3/22 7:30 PM
with the focus on summarising the objectives/planned deliverables.

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/27 6:11 PM
Here is the company current Powerpoint, Still I need to work on the IOT section, The teams that haven't sent their slides yet please add them to this Powerpoint

CompanyStructurePresentation.pptx ...

Edited

Hi leaders, our company presentation is scheduled for 11:50 am tomorrow, if u would like to participate in the presenting (ONLY SENIORS) please let me know by 9:00 pm tonight

THE TUNG TRUONG 3/27 7:57 PM
Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ... 1

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

THE TUNG TRUONG 3/27 7:57 PM Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ...

1

3/27 8:44 PM Edited Here is the Updated Powerpoint file, please review your team's section to besure everything is correct.

UpdatedCompanyStructurePresentation... ...

MARK TELLEY 3/27 8:47 PM Thanks Ella, note, i'll make some minor changes tomorrow morning

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

March 28

Luxing Yang 3/28 10:11 AM Good morning everyone, are you ready for the company presentation today?

3/28 10:13 AM Morning Luxing, Sure we are, Mark and I will be running the presentation 😊

Luxing Yang 3/28 10:14 AM Thanks **ELLA KARIMI ZARANDI** for letting me know. Looking forward to your presentation.

1

Company On-Boarding

Redback Operations Team Leaders Chat Files +

JARROD YONG 3/14 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be interested in doing it but I actually don't think I'll have the time to lead and help in another project would it be alright if I could step down as a team lead?

1

3/14 8:25 PM

YIANNIS DOULGERAKIS 3/14/2023, 8:21 PM now where can we find the tasks? or do we create the tasks ourselves?

Yep, its your responsibility to assign tasks to your student, based on the team's goals and the students' capabilities. If you had issues to come up with new goals or you find out that there are not enough tasks for everyone to get assigned to, please reach out to me,

JARROD YONG 3/14/2023, 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be...

That's fine Jarrod, I will call out to see who can lead this team then

1

YIANNIS DOULGERAKIS changed the group name to Redback Operations Team Leaders.

ELLA KARIMI ZARANDI added Unknown user to the chat.

March 15

3/15 3:02 PM Hi leaders, I am still waiting for your email to be able to set up your accses

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ ...

ELLA KARIMI ZARANDI 3/8, 10:17 AM @General

Morning team,

Here is an Excel file, that indicates the record of some of our onboard team members, based on what I received from you guys and Michele till yesterday 2:00pm,

Would be great if you go through it and if you don't see your information, please add yours, by no later than tomorrow at 12:00 pm,

If you are not able to find your info in that spreadsheet, but you have already sent me your information, (here or through direct message) after 2:00 pm yesterday, would be great if you also add yours into the spreadsheet,

If for any reason you are not able to add your info to the spreadsheet, message me, so I am happy to take care of it for you tonight after work.

Regards,

Ella

[See less](#)

 Onboarding Report - Redback Operations.xlsx ...

[Reply](#)

Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict...

ELLA KARIMI ZARANDI 3/9, 6:13 PM Edited Hi @General,

Here is a pdf file showing the members' record based on the information you have submitted.

Please check it out and if you can't find your record, it means that I haven't got yours, so please send it ASAP, so I could update the form,

Regards,

Ella

[See less](#)

 OnboardMembersUpdated.pdf RedbackOperations9 >General ...

[Reply](#)

March 10, 2023

ELLA KARIMI ZARANDI 3/10, 10:51 AM Hi @General,

Could I ask u to walk through your preferred team's handover docs, before tonight meeting, (I have shared the handover docs earlier in this channel) to get a sense of what projects each team works on, what is done and what is left, u also might come up with some fresh ideas to set as goal for your team for this trimester,

Also I would like give u a briefing on some leadership expected tasks, its lots of responsibility for you to take to run a team as a team leader, with main ones: planning goals for the team to achieve(short/long term and for whole trimester), breaking down the goals, assign tasks to the members, creating Trello (or use your own agile tool) and tracking the performance of the team overall and members as individual and supporting the team members which are struggling with their assigned tasks ,

Look forward meeting you at the meeting tonight,

Regards,

Ella

[See less](#)

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict...

Reply March 16, 2023

ELLA KARIMI ZARANDI 3/16, 7:36 AM General Morning team, please check out the updated list of our team members.

Finalized members list.pdf ...

9 replies from STEPHEN TOBECHUKWU, DANIEL, EVAN, and 6 others

Reply

ELLA KARIMI ZARANDI 3/16, 8:41 PM @General

Hi folks,
If you are not in the list, you may get in touch/ send text to the team leader to add you to their list,
Regards,
Ella
[See less](#)

March 17, 2023

ELLA KARIMI ZARANDI 3/17, 12:14 PM Hi @General
Please let me know if you havent hear from your team leaders yet.
Regards,
Ella

JF JIAHAO FENG 3/17, 3:09 PM Edited Hi Ella, can you upt me to VR tram. becasue our leadr do not know how add me to team. Thank you.

ELLA KARIMI ZARANDI 3/17, 4:25 PM Hi @General
We need more members to join to VR team, is anyone interested to move to VR team?
Regards,
Ella

Reply March 20, 2023

2023T1 Capstone Redback Lead... Chat Files Onboarding Report + 22

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/17 12:04 PM Hi everyone, about the team report, u may share the template with your team to have it completed collaboratively. Also I have added the new members to our list, be sure that u adding them to your chat group/ team group, here is the updated member list

Finalized members list.xlsx ...

3/17 12:33 PM Edited Here is a link to our weekly meeting, including tonight

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTrkNDU0MWUtZDgxNi00Y2ZkLWJlY2MtM2JiYzYyNWMwMDcx%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Join conversation X

April 6, 2023

ELLA KARIMI ZARANDI 3/17, 12:08 PM Edited
@General
Hi everyone,
I have added the new members to the list, plz check it out and let me know if u dont find your name , Also plz get in touch with the team leaders and ask them to add u to their group chat/team group ,Regards,
Ella
[See less](#)

 Finalized team members list.xlsx ...
18 replies from you, AHMAD, MOMIN KHALID, and 7 others

Reply @

XINYU ZHANG Chat Files Organization Activity LinkedIn +

Saturday 8:36 AM
Hi Xinyu Zhang
My name is Ella and I'm Redback company leader,
Just checking if u have been placed in any team or project yet?

Sunday

XINYU ZHANG Sunday 7:30 PM
I haven't joined any group because it seems like all the teams are full 😊

Sunday 9:16 PM
Based on your skills what team do u believe is suitable for u to join?

XINYU ZHANG Sunday 11:51 PM
maybe the AI?or VR. 🤖

Monday

Monday 8:34 AM
I will add u to VR, as we have lots of people in AI
please get in touch with HILAL IRSASHAD, who is the VR team leader refer to this chat and ask him to add u to the VR team

XINYU ZHANG Monday 4:47 PM
thank you
👉 1

Task allocation to team members

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 2:02 PM Hi team,
Tonight I would like we finalize the IOT projects,
Currently I am studying through the handover doc and github, to find out which projects we are going to run this Tri,
Later in the afternoon I will provide the project list here for u to pick; and alternatively I will be available between 9:00 to 9:30 to have a team meeting, if anyone needed any assistance or info about each project.

3/22 2:50 PM IOT Projects.docx ...

3/22 7:28 PM Edited
Hi Everyone , Please RSVP your attendance at the meeting tonight,

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 9:58 PM Share board

Email address or name	Member
Shari	Admin
Ahmed Riaz	Member
Angie Singh Chahal	Member
Ethan Bergman	Member
Hanwen Dun	Member
Jarred Yang	Member
Kushan Arangath	Member
Kyle Sayler	Member

Ahmad, plz pick one of the projects, as u didn't attend to the tonight meeting. I assume u don't have any question about projects,

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 10:16 PM AHMAD RIAZ 3/22/2023, 10:15 PM
ethics submission for gas sensor system is not in the list you send
should i include it as well?

No, I had to cancel that project, as we don't have the gas sensor at the lab right now

"Implementing FTP system" is my main goal for this tri, its about designing workouts, currently we only have one workout, I want we develop at least two more

Tomorrow at 1:00pm I have a meeting with the company director, and I'm required to report on each member's assigned projects, so please be sure you have picked your project by tomorrow 12:00pm

MOMIN KHALID BUTT 3/22 10:23 PM
I am selecting Limit rate-of-transmission from RPi (GCP cost)

3/22 10:23 PM ALSO be aware that you are required to attend our team meetings and I am required to roll the attendees

MOMIN KHALID BUTT 3/22/2023, 10:23 PM
I am selecting Limit rate-of-transmission from RPi (GCP cost)
please add it to the list

I have to leave now, but will check the list tomorrow morning

have a great night everyone

Redback Operations IOT T12023 Chat Files +

Limit rate-of-transmission from RPi (GCP cost)	ETHAN BENJAMIN MOMIN KHALID BUTT	Junior	
Scripts to start processes on RPi	JARROD YONG ETHAN BENJAMIN	Junior	Team Member
Heart rate publishing issue	THOMAS MORGAN WILLIAM DJODODIREJO	Junior Junior	Team Member
Improvements to end-to-end UX	JARROD YONG AHMAD RIAZ Haris Sajjad	Junior Junior	Team Member
Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle			

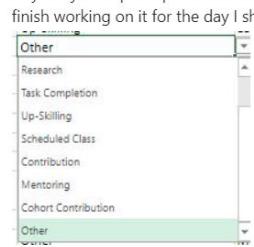
3/24 5:02 PM
Hi team, I need to submit our company's report by tomorrow,(which is the task 2.1 requirement), please be sure u have projects assigned to your name here and in our Trello board

Also, you are required to record your time in the provided work log

Provided guidance about students' question on Capstone and On Track tasks:

STEVEN MAKRIS Chat Files Organization Activity LinkedIn +

STEVEN MAKRIS 4/4 3:11 PM
Hey Ella just a quick question. If I am working on my task (I am the only one that works on it) and it is not completed when I finish working on it for the day I should use "Other" on my workbook or something else?



4/4 3:34 PM
U mean u worked on your project, right? If that's the case just put contributions

STEVEN MAKRIS 4/4 3:34 PM
yes a task for the VR project

contribution then. Thank you

1

THE TUNG TRUONG Sunday 7:44 PM
Hi Ella I have some question

for the week 6 panel

I am not aiming for the HD, but one of my team member is aiming it

will it affect my team member

do I need to make a presentation for my team and submit it for task 5.4HD or the task is individually

Sunday 9:33 PM
Hi Tung, this task is an individual task and you are not required to do anything in terms of other members' grade, good luck with your assignments 😊

THE TUNG TRUONG Sunday 10:02 PM
so do I need to tell my team member to submit for the form that Michele sent to us

Edited
for the presentation in the Week 6 - presentation

Sunday 10:10 PM
That's fine
Yep, if he aims for HD he needs to submit his slides, then u unit chairs will assign time for his presentation

But about form, it's mentioned here if U ARE NO LONGER AMING FOR HD FIIL THE PROVIDED FORM

THE TUNG TRUONG Sunday 10:13 PM
ok I got it, I will fill the form

1

Thanks for your help, Ella

Sunday 10:20 PM
no worries

Keeping Track and Following up on tasks, plans and progress:

A Redback Operations IOT T12023 Chat Files +

3/21 9:56 AM FINAL REMINDER:
URGENT TASK FOR TODAY:
-Pick your project/s,
- Add your name to the list,
-Resourcing (Github, handover doc, other resources in the team channel)
-Planning (Trello, Road-map)
ALL TEAM MEMBERS ARE TO SUBMIT THEIR TRELLO BOARDS BY 8:00 PM TODAY **TO THIS GROUP CHANNEL**,(NOT DIRECTLY TO ME)
If you are not able to make it, RESPOND WITH YOUR REASON,

Q Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELL KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

March 21

3/21 9:46 AM ask for this week
-Resourcing (Github, handover doc, other resources in the team channel)
-Planning (Trello, Road-map)
ALL TEAM LEADERS ARE TO SUBMIT THEIR TRELLO BOARDS BY 8:00 PM TODAY **TO THIS GROUP CHANNEL**,(NOT DIRECTLY TO ME)
If you are not able to make it, RESPOND WITH YOUR REASON,

Search ... 

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

Morning leaders,
As we all required to work together to get the job done, I would like to ask everyone to manage your time to meet the deadlines.
By not follow the time limit, you will put so much pressure on me and also it would affect other teams as well
URGENT task for today:
-Creating your Trello board (if it's not done yet) and your road map
-Start to work on projects and coding, and let me know if u need admin access to any tools
-Get in touch with your students to make sure all team members are aware of their task and have started to work to meet the deadline to finish their first scope of their project
-Send me your road map and a link to your trello board
-Send me your plan for this week
DEADLINE TODAY AT 8:00pm

1 heart

Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a report about your tram progress

THE TUNG TRUONG 4/5 9:15 PM
ELLA KARIMI ZARANDI 4/5/2023, 9:00 PM
Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a...

I thought the meeting is fixed at 8pm

oh australia just change the time zone..

because at 4pm (on my time zone) I switched to this Teams acc but I didn't see any meeting so I continued to work and waited for 15 more minute but I still did not see any meeting and I thought today meeting is cancelled

then I logged out the uni acc and logged in back to my work account, so I did not received any notification

I will send you a report about our Teams tmr

1 thumbs up

April 6

4/6 11:22 AM
Hi Tung. Please give me an update on your team ASAP. Just type here, so I could add it to our weekly Report

THE TUNG TRUONG 4/6 11:42 AM
oke so last week we fix 2 bugs related to the screen responsiveness that I told you last week

Edited
this week our team will finish first agile task is refactor code (current status 70%)

the plan for next week is to create the ui for new screens, redesign the old screens(following the figma from last trimester as I don't know whether the design from this trimester is changed or not)

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/21 11:20 AM

ARJODH ARJODH SINGH 3/21/2023, 11:12 AM
Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM

I would like to let you know that I have scheduled two 15 min weekly meetings, as below:
Wednesdays at 8:00 pm.
Fridays at 8:00 pm.
Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:40 AM

IMPORTANT:

IF YOU ARE NOT ABLE TO ATTEND THE MEETING, Please send me a report (Trello or Excel report) of your team's workflow over last week. It will help me to keep a track on each team members' working/completed tasks in each project. please send me a report of your team's work workflow over last week

1

ARJODH ARJODH SINGH 3/29 7:59 PM
<https://trello.com/b/SvbARmmY/devops>


Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...
trello.com

1

Worklogs

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/23 5:03 PM

Hi Everyone

I was notified that some teams still not using the workbooks to record their time,

The "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

It is essential to keep track of all Team members' hours in the workbook, So All members should record their hours in this workbook.

You are required to Take screenshots from the workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

YANNIS DOULGERAKIS 3/23 5:05 PM Where to find this work book?

3/23 5:20 PM Edited

YANNIS DOULGERAKIS 3/23/2023, 5:05 PM Where to find this work book?

You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team

IOT Worklog 2023 T1 (2).xlsx ...

Redback Operations IOT T12023 Chat Files +

3/23 5:00 PM

This "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

It is essential to keep track of all Team members' hours in this workbook. So All members should record their hours in this workbook.

Take screenshots from that workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

IOT Worklog 2023 T1.xlsx ...

Redback Operations IOT T12023 Chat Files +

I have created one for our team and u could locate it in the file here

https://deakin365-my.sharepoint.com/:g/personal/ekarimizarandi_deakin_edu_au/EVx9ggMnmkNhgkfX2pQ3a_cBTJ-nmHVxs3EBBdly3KhQ

IOT Worklog 2023 T1.xlsx personal > ekarimizarandi_deakin_edu_au ...

THOMAS JAMES MORGAN 3/24/2023, 5:08 PM IOT Worklog 2023 T1?

No, please record your time in our team's worklog

Setting up Access:

March 11, 2023

ELLA KARIMI ZARANDI 3/11, 10:30 AM
@General,
Morning team,
I have managed to organize a meeting with the previous company leader for tomorrow morning to sort out the team leader's access to the required tools and platforms, So really appreciate, if all team leaders provide your email addresses under this post by tonight,
Regards,
Ella

[See less](#)

Reply

HILAL IRSYAD 3/11, 2:13 PM
Hi **ELLA KARIMI ZARANDI!** I'm Hilal Irshad, I have filled the google form for registered myself with the company. Could you help me out when will I have a meeting with my teammates and what role will be assigned to me? I'm interested to work on project 2 (Project Sun cycle VR).
Thanks

Redback Operations Team Leaders Chat Files +

3/16 6:30 AM
I have added u all as Collaborators in the git hub, u should have received an invitation email,

its u that need to set the git hub access for your team members. my advice is just to give them member access, so they are able to clone, but for push to the git hub, they will need to submit a request to u , so u get to check the codes before pushing them to the repository.

we need to have a meeting soon to go through git hub and other things as well, please let me know if tonight at 8:00 works for you guys.

YIANNIS DOULGERAKIS 3/16 6:35 AM
Yes!

3/16 6:38 AM
if u need admin access to unity and Figma plz provide me with your user name, so I could take care of them for u

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/7, 1:29 PM
Hi @General,
Here is the T3, 2022 Redback Operations handover document, would be great if you could read through it to get yourself familiar with the company overall,

 Redback T3HandoverDoc.pdf ...

Reply

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/8, 11:02 AM
Hi @General,
There is a issue with Teams that you might not be able to access forms, So I would also provide you with a share point access link, to get access to the files,

Below is the SharePoint access link to the boarding report,
[Onboarding Report - Redback Operations.xlsx](#)

Regards,
Ella
[See less](#)

Reply

Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

22 3/23

ELLA KARIMI ZARANDI You are able to download it from Deskin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

3/17 10:31 PM
Hi team, as I have mentioned to the meetings, if u still havent got your admin access to git hub or Trello, plz send your email address here, so I could set up your admin accesses

3/17 10:48 PM
HILAL IRSHAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gmail address who has the trello account

3/17 11:01 PM
I have set Trello admin accesses as bellow:
Mobile team --> The Ting
Web - Design team --> Brian (Yiannis doesn't have Trello account under his email address)
DevOps --> Arjdh
Cyber --> Mevin
VR --> (waiting for email address)

As now u all have Trello admin access, you are able to sort out accesses for your student, I suggest to set their access as "member"

Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

HILAL IRSYAD 3/18 12:12 PM

ELLA KARIMI ZARANDI 3/17/2023, 10:48 PM

HILAL IRSYAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gma...

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

HILAL IRSYAD 3/18 1:00 PM
irshad@deakin.edu.au

3/18 1:25 PM

HILAL IRSYAD 3/18/2023, 12:12 PM

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

Done Hilal 😊 1

Search ...

Redback Operations IOT T12023 Chat Files +

3/27 7:36 PM

GCP Access have been granted - I'll set this up during the week.

Dear Ella,

As requested, the project "Redback Infrastructure" for Redback Operations has now been adjusted on the Google Cloud Platform to allow team access. This project grants you and your team the ability to use most Google Cloud services.

The following members of your team have access to this project in the role of EDITOR. They are:

- ELLA KARIMI ZARANDI (ekarimizarandi@deakin.edu.au) [Budget notification target]
- WILLIAM DIOJO DIREJO (widojodirejo@deakin.edu.au)
- JARROD YONG (kyong@deakin.edu.au)
- ETHAN BENJAMIN (benjammin@deakin.edu.au)
- THOMAS MORGAN (tmorgan@deakin.edu.au)
- MOMIN KHALID BUTT (mkbutt@deakin.edu.au)
- AHMAD RIAZ (raza@deakin.edu.au)

like normally we have the setting at the right side on the bar, but I couldn't find it so I don't know how to add my team members 😅 1

ELLA KARIMI ZARANDI 3/31/2023, 2:35 PM

I'm at the office now

I understand, thanks for your help Ella 1

3/31 5:05 PM

Hi Tung, is your github account under your Deakin email

I also need the email address to be able to add the team members to the github

[Created the VR repo in GitHub](#)

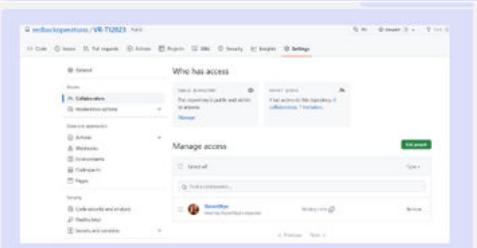
 STEVEN MAKRIS 4/1 3:20 PM
Hey Ella! i am talking from the VR unity team.
I noticed that we dont have any unity project on GitHub.
May i have access to redbackoperations to create a repository with the current project so it can get auto updated to any new changes? thanks

4/2 7:37 AM
Hi Steven, I have created a VR repo, please text me your Github account, so I could add u as collaborater in that repo



 STEVEN MAKRIS 4/2 3:59 PM
my username is: StevenSkye

4/2 4:24 PM
done



 STEVEN MAKRIS 4/2 4:37 PM
thank you


Providing leaders with some projects ideas

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +
ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx 3/23 ...

3/19 10:00 AM
THE TUNG TRUONG 3/18/2023, 9:14 PM
I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...
Hi Tung.
Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section.
Please focus on APP RESPONSIVENESS as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part.
AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not
You also may refer to the attached pdf file to get access to the "open issues" and "Road map".
 Mobile team.pdf ... 

3/19 10:40 AM
Some tips when are working on the team report:
- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description. (EX: the reason you think that project is required to be added/improved or what problems would be solved).
- In the " Deliverables" section, you would breakdown your projects into the Deliverables features/tasks to assign to your team members to get developed and delivered.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

3/19 11:05 AM

HILAL IRSHAD 3/19/2023, 9:42 AM
VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features. (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product; (please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

VR.pdf ...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM
DevOps.docx

Perfectly done. Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives" section.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC-T2j_wOellygyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info.

PLEASE assign tasks to the team members.

 Web-Design.pdf ...

Hi folks. In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report > Community > How to participate > Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage. due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document. I will update the document based on your feedbacks

1

3/19 8:31 PM

MELVIN MANOJ 3/19/2023, 3:59 PM

Updated Template for cyber team, added more projects and divided them into more groups.  Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members

Member Name	Role	Task
Adam Bainey	Junior	Incident monitoring (research and implementation/strategy to place in GCP environment)
Carla Estella	Junior	Incident Monitoring (Research and Implementation)
Caitlin Parker	Senior	Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobechukwu Uzoka	Junior	

Q Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/20 2:05 PM Edited
Hi leaders,

Good news that OnTrack task 2.1P due date extended to 26 March, so we could edit our report and resubmit it.

Mark is taking care of the content table, and after he shared the edited file here, all other leaders to perform the following editions into their reports:

-Add your team's trello line into your team report,
-Add your road map
-Edit the font colours and font sizes to match the bellow style:

Font: Calibri (Body), size: 11,
Titles: Calibri (Body), size: 12,
Sub Titles: Calibri (Body), size: 11, Bold, blue colours

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog T1 (2).xlsx

3/22 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.
DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

Providing the required links and documents to the members:

Q Search ...

Redback Operations IOT T12023 Chat Files +

3/20 11:54 AM
Redback T3HandoverDoc.pdf ...

3/20 12:42 PM
Content Management System <http://34.129.10.237/> Username admin password redback

Redback Operations IOT T12023 Chat Files +

3/22 10:10 AM JARROD YONG 3/22/2023, 9:19 AM for anyone in today i'm already in the room with the bicycle and ELLA KARIMI ZARANDI if you're around whats the username and passcod...
Username : pi password: capstone374

3/22 10:43 AM AHMAD RIAZ 3/22/2023, 12:56 AM Hey Ella, can you send me the link to trelloboard please., there is nothing coming up on my trello
Done, try and let me know if you have access or not

Redback Operations IOT T12023 Chat Files +

3/23 10:40 AM Here is a link to IOT Trello board, Please check it out and make sure you have a card/s assigned to <https://trello.com/b/pgeElQ/Iot-and-embedded-systems>

 Trello Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance, you can see what's due, who's working on what, and what's been completed. trello.com

12:44 PM Hi Team, I received a few texts about how you apply for the Lab Access. You could use the following link to submit your request <https://apps.deakin.edu.au/keys-and-access/>

2:09 PM Edited Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling you to use select Deakin software from anywhere. <https://deakin365.sharepoint.com/sites/AppsandDesktopsAnywhere> ada.deakin.edu.au

 WILLIAM DJOJODIREDO 8:38 PM ELLA KARIMI ZARANDI 4/13/2023, 2:09 PM Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app...
thanks ella, I'll look through it tomorrow

Cyber Team – Problem Solving

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources. I have created one for IOT. You are welcome to edit/modify this to be used in your team IOT

4/5 11:53 AM Edited Morning Everyone

I would like to let you know that after some discussion I had with two of our teams' members about the issues they faced through their participation in their team and in order to address those issues and speed up the process of the project's progress in their team, we decided to make some changes in their team's hierarchical structure as below:

Cyber team :

Team leaders: Nasim Emadi, nemadi@deakin.edu.au
Caitlin Parker, cjpark@deakin.edu.au

Web-Design team:

Team leader: Avinash Maurya mauryaa@deakin.edu.au

Regards,
Ella

CP CAITLIN PARKER Chat Files Organization Activity LinkedIn +

4/3 9:36 AM
Hi Caitlin, I see u are taking care of all leadership tasks in cyber team.
Just I need someone to also attend to our weekly company meetings with the company directors so n Thursday.
As Melvin is on cyber leadership role, I texted him a few times un this regard, but noting back from him.
If it's u now that taking responsibility on this role plz let me know to add u in our team leader channel, so I could get some update about Cyber team progress

CP CAITLIN PARKER 4/3 6:59 PM
Hi Ella, it was not my intention to become the team leader I just didn't want to fail this subject ^^*
What time Thursday as I have another class on Thursday from 6-8 and work full time.

April 4

TG TAHLEA GRANT 4/5 6:47 PM
Hi Ella, I am just writing as I stumbled across a message from Jikuan and would like some clarity as well as to maybe provide some clarity myself. The message that I received was in regards to the project and how we are servery behind, which I am aware of. I am not sure if it had been paraphrased but in the message it said we should focus on producing 'meaningful work' instead of research and documentation. While I fully agree, and assume the meaning was more tangible work such as code. The repo location was not made known to us until the 27/3 which was all of a week ago. Until this point I had no knowledge of what the code even looked like or what language it was in. Which already placed us in week 4 with no resources related to the project, which is why researching and locating the deliverables was crucial here. This problem prompted me to focus on making some more comprehensive documentation which will encapsulate everything and aid in the continuity and handover of this project for trimester 2, as I believed it would allow for an almost immediate transition for everyone (in tri 2) to start working on the repo and know what the next steps are as it would be documented. After I complete this as well as some upskilling in Java I fully intend to be more hands on and produce tangible code modifications, but it is challenging to do that when I have had the material for only a week. I would love to hear your thoughts on this, if you feel this is inadequate still please let me know so we can work out something for us both. I am also aware you have more capstone knowledge than me so any advice would be great, as hearing this has made me quite worried. Thanks so much in advance 😊

4/5 7:14 PM
Hi Tahlea,

Hope you doing well,

As I also mentioned to Jikuan, you are required to work 100 hours in this unit, and you should be able to provide evidence to showcase that time participation.

You could only spent 20 hours on research and 20 hours on upkilling through entire this Tri, then u need to be able to show you have worked 40 hours on the project progress and then 20 hours for documentation.

We are in the middle of the term and by now you are expected to have enough evidence to show, about 50 hours participation in the Cyber team,

There are three people in that project, so it means that in total we need to see 150 working hours on that project,

This morning after the discussion I had with Jikuan, he wasn't able to showcase that 150 hours team working in the project. Also based on the fact that the "2FA" is an existing project, so I couldn't get it why you had to spend 150 hours just on research, and what the result is?

After spending this amount of time on research why still we don't have any plan for the progress? Why the process is not clear? Why the task are not scoped out and assigned to the members?

We do have another meeting tomorrow at 9:30am, you are welcome to attend and explain more about the result of that 150 hours research.

Regards,
Ella

Thanks for getting back to me so quickly I really appreciate it.

As a junior student I don't have any particular answers as to why things aren't scoped out or aligned well, as it was to my knowledge that this is the responsibility of senior students and leadership students of which I am neither.

To my knowledge no one has claimed to have spent that much time on research, although I understand that you are suggesting we should have spent that much time on the project I can say, at least for myself, due to the inability to locate resources my time allocation and ability to work on this project was limited. You are correct 2FA was an existing project which had documentation sprawled around everywhere and the issue was that exactly. Which is why I was moving toward creating that documentation.

I agree fully we are behind and this project lacks direction and honestly if your recommendation is to find a different project with actual aims and plans I will happily move across. I am genuinely asking for help I am not trying to argue any points. I am saying we had issues finding any documentation and resources which lead us here but I am aware there is more to it than just that now.

So again if you recommendation is for me to move to a project in which I can be a more active member I will take that on and do that. Ultimately I do want to contribute and do well in this unit and obviously I am currently not so I would like to work with you or with your advice to change that.

Unfortunately I am in class at 9:30 so will not be able to attend but thank you for the offer. If there is another time I would like to chat with you. But I am genuinely asking for your help and advice I am not trying to say we did all those hours, I am aware we are behind.

Thanks, Tahlea

4/5 9:14 PM

Tahlea, no there's no need for u to change your project, just stay focused on your tasks and the project's progress plan, none of us are that behind, we just need to speed up the progress process and start to make some obvious visible progress in our projects



April 6



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7

4/7 9:32 AM

Hi Tahlea,
Just updating u about the result of my meeting with Jakuan,
He is to scope the project and assign and clear the task to u

Has he reached out to u to organise a meeting?





NASIM EMADI Chat Files Organization Activity LinkedIn +



NASIM EMADI 4/2 5:17 PM

Hi Ella, hope you have had a good weekend. I am the leader of the vulnerability management/project3 of cyber security.
I am actually wondering to know when is the weekly meeting with the company's directors, I was not, unfortunately, following what required till now about having regular meetings with the company director (or mentors advised by Lennon one of the unit chairs).
I really appreciate it if you notify me when is next meeting and how could I watch any recorded meetings with the director if there were and get up to speed with the project.
thanks

4/2 10:21 PM

Hi Nasim,
Meeting with the company director is on Thursdays at 1:00 pm, which we prefer one person from each team attends to the meeting. (first option is team leaders, but if they are not able to attend another person to cover them)
U may ask Melvin about his plan of attending to that meeting, if he is not able to make it then u could attend on behalf of Cyber team,
In terms of recorded files, We have a team leader's channel that I always share the recorded meetings with directors there,

In terms of other meeting that recently is posted by unit chair and Lennon. They are going to give us a few times to pick, I haven't hear back from them yet, will update u, as soon as I get any news about those meetings

Regards,
Ella



April 3



NASIM EMADI 4/3 9:04 AM

thanks Ella, so I conclude that there is no need to participate in any meeting by myself just you or Melvin will be responsible?!

4/3 9:23 AM

Yep, I prefer one member from each team participate to our meeting with the directors, to talk about their team overall, their projects' progress and their workflow and plans, as I mentioned, u need to talk with Melvin, and as he never attended in any of the meetings till now, actually I would suggest u cover him for those meetings, so at least we have some updates on cyber's team as well,

I sent him text in other day, but didn't get any response



Screenshots

EV001 Working on Corporate Reporting project with Sindhuja Manduru

The screenshot shows a messaging interface with two messages from Sindhuja Manduru and one message from Ella.

Sindhuja Manduru:

- 3/26 4:17 PM: Hi Sindhuja
Hope you are well,
- 3/26 4:19 PM: As you and I are going to work on the "Corporate Reporting" project together, how about we organize a meeting together, to have a discussion over the project overall and tasks and responsibilities,

Ella:

- Thanks,
Ella

Sindhuja Manduru:

- 3/26 4:19 PM: Hi Ella
- I am available tomorrow after 1PM
- Any time would be okay for me to have a meeting
- Please let me know

Sindhuja Manduru:

- 4/4 9:51 AM: Could u plz have a look on that file and find out what each field refers to?
- Edited: As for the queries we need to have a clear view of each fields
- 4/4 10:17 AM: I would like u to research over this fields plz

Code Snippet:

```
allowed_fields = [
    "timestamp",
    "position_lat",
    "position_long",
    "distance",
    "enhanced_altitude",
    "altitude",
    "ascent",
    "grade",
    "calories",
    "enhanced_speed",
    "speed",
    "heart_rate",
    "temperature",
    "cadence",
    "# fractional_cadence",
    "power",
    "left_right_balance",
    "gps_accuracy",
    "descriptor",
    "product_name",
    "serial_number",
    "age",
    "gender",
    "weight",
    "FTP"
]
```

Screenshots of Meetings

Organizing Meetings

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ

Reply

ELLA KARIMI ZARANDI 3/7, 1:13 PM Edited
Hi @General

I would like to invite you all for a meeting this afternoon at 4:00pm,

Meeting's Purpose:

- Get to know each other,
- Company introduction,
- Election of team leaders,

I understand, it's a late notice and you might not be able to make it, but still I appreciate your participation if you are available in that time,

All Participants: Please be advised that this meeting will be recorded for later reference. If anyone has objections to this procedure, please voice them now.

[See less](#)

Redback Operations Team Leaders Chat Files +

ELLA KARIMI ZARANDI added JARROD YONG and 5 others to the chat.

3/14 8:12 PM Edited
Hi leadership team.

I would like to schedule a 30 min meeting for tomorrow at 8:00 pm, to find out how so far u have managed to reach out to your team members and if you got a chance to make yourself familiar with your team's projects and involved tech stacks.

Also please text me your email address, so I could set up your admin access to the required tools.

Regards,
Ella

1

YD YIANNIS DOULGERAKIS 3/14 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

3/14 8:15 PM
YIANNIS DOULGERAKIS 3/14/2023, 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

Hi Yiannis, I have posted the list to the General, also have placed a copy in the General files. Let me actually post it here as well

1

Also please be aware that there were some new students that has been just added into the teams this afternoon, so please check the updated file again to be sure that you are also taking care the new students as well

 Finalized members list.xlsx ...

Done, try and let me know if now u have access or not

Guys, tomorrow we have Adrian at the lab, and he is happy to walk u through the sensors, hardware, scripts and any questions u might have, I would like to run this Q/A session once, who is available to attend tomorrow 9:30 to 12:00 tomorrow?

JY JARROD YONG 3/22 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

3/22 10:48 AM
We also need to have another meeting to finalize the projects, as

JARROD YONG 3/22/2023, 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

how about Monday?

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:30 AM
Morning Everyone ,
Here is the link to our tonight's meeting and the Agenda,
[week4.docx](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMtMjI3Mi00ZDc5LThlZjAtMzKzOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d)

Join conversation teams.microsoft.com

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/30 12:14 PM
Hi Leaders, Here is the link to our today's meeting with the company's director, at 1:00pm
[Join conversation](https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKNzgtNrhZi00ZDFILWjmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d)

3/30 1:25 PM
Redback Operations Weekly Meeting-20230330_130402-Meeting Recording.mp4
[Redback Operations Weekly Meeting-2...](#) ...

Invited everyone to an in-person meeting

March 25, 2023

ELLA KARIMI ZARANDI 3/22, 9:14 PM Edited
Good afternoon @General.

I would like to invite everyone to an in-person meeting, where you could enjoy some food and share some fun with friends.

Also, we could take this opportunity to catch up and get to know each other.

This event will be held at 12:00 pm on April 5th at The designated Capstone space, located on the ground floor of Building T in the Burwood campus.

Everyone is encouraged to attend and enjoy the food and company.

Kindly RSVP by June 29th.

Have a great evening,

Ella Zarandi

See less

1 1

2 replies from you and MIRIAM

[Reply](#)

Encourage attending the meetings

A Redback Operations Team Leaders Chat Files +

care of it from there

March 22

3/22 7:22 PM with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon **Everyone**,

Here is the link to our tomorrow meeting with our company's director,

Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZkNzgtINTRhZi00ZDFILWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X teams.microsoft.com

A Redback Operations Team Leaders Chat Files +

so far could u plz let me know what u have done to get in touch with your team? created a chat group? collected more info? had your first meeting or have organized for?

as I have meeting with company director at 1:00pm, so I could update him,

also I would like all of u attend to these meetings from next Thursday, or even if u are available, from today

YD YIANNIS DOULGERAKIS 3/16 6:42 AM
Is it 1pm today the meeting?

3/16 6:43 AM with Kevin, which is the company director

YD YIANNIS DOULGERAKIS 3/16 6:43 AM
I'll try my best to join

So shoot me an invite please

3/16 6:45 AM
https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZkNzgtINTRhZi00ZDFILWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 Join conversation X teams.microsoft.com

here is the link for everyone who wants to join, have a great day everyone 

Redback Operations IOT T12023 Chat Files +

3/27 4:52 PM
Week 4

Hi everyone,

Since we have finalized the projects and also each member's tasks are assigned, so everyone can start working on their deliverables for their projects for this trimester.

As a team we should have a weekly meeting to update the team about the projects' progress:

We are also required to:

- Keep a log of all meetings minutes/notes
- Keep a log of all individual contributions
- Update Trello board as we go

See you in our tomorrow meeting. If you are not able to make it, please let me know to organise a 1:1 meeting for you.

Regards,
Ella

3/27 7:36 PM
GCP Access have been granted - I'll set this up during the week.

Dear Ella,

Redback Operations IOT T12023 Chat Files +

3/22 11:06 PM
JARROD YONG 3/22/2023, 10:27 PM
As a heads up Ella my work schedule is inconsistent so I may end up missing a few

Each meeting not taking more than 15min, now the meeting that I'm running in AI only takes 10min, they already have started the projects, but in IOT we even haven't assigned the projects yet, as no one attends the meetings.

meetings are just about catch up and updating on the project's progress, to able me to complete our weekly team reports

If these times are not working with u guys we have to allocate another time which meets everyone's availability

Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

And let me know about your availability

AHMAD RIAZ 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM
Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

I am good with this

ETHAN BENJAMIN 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM
Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

Perfect for me

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

3/21 11:20 AM
ARJODH ARJODH SINGH 3/21/2023, 11:12 AM
Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM
I would like to let you know that I have scheduled two 15 min weekly meetings, as below:
Wednesdays at 8:00 pm.
Fridays at 8:00 pm.
Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

Scheduled meeting's time based on everyone's availability

The screenshot shows two Microsoft Teams messages. The first message is from Ella Karimi Zarandi to the Redback Operations IOT T12023 channel. It contains a note about running two weekly meetings on Tuesdays at 8pm and Fridays at 5pm, with a request for at least one attendance. The second message is from Ella to the 2023T1 Capstone Redback Leads channel, detailing her availability (free after 9pm) and scheduling preferences (two meetings before Thursday). A third message from Yiannis Doulgerakis is also visible.

Redback Operations IOT T12023

3/23 11:13 AM
To meet everyone's availability we will run two meeting sessions every week as below:
Tuesdays 8pm
Fridays 5pm
All members are required to attend at least one of the meetings to give the team a heads up on your task/project progress
Regards,
Ella

2023T1 Capstone Redback Lead...

3/16 7:54 PM
I would like to have at least two meetings before next Thursday with all leaders. (as a group or 1:1).
One meeting for this week should take place before Sunday, so my available time is as below:
For group meetings:
Tonight at 9:00 pm,
Tomorrow at 8:00 pm.
1:1 meetings: Tomorrow between 12:00 to 2:00 pm.
I would like to get your response ASAP to be able to schedule my time.
Meeting Agenda:
-Have you already got in touch with your team.(created a chat group, walked through the docs. ...)
-Access to the required tools, especially git hub, and Trello boards.
-Q/A about how to use Git hub (setting access for your team members, cloning the codes. ...)
-Q/A about how to use Trello
-Walking through handover Docs.
-Do u have any plan in your mind (think about what u would like to achieve on this Tri)
-do u need any assistance with your planning.
Also, I would like u all to add me to your team's chat group plz.
Regards,
Ella

YIANNIS DOULGERAKIS 3/16 7:55 PM
i am free tonight at 9pm

Meeting Agenda

The screenshot shows a Microsoft Teams message from Ella Karimi Zarandi to the 2023T1 Capstone Redback Leads channel. It includes a meeting agenda table and a detailed agenda list. A file named "MEETING AGENDA.docx" is attached.

2023T1 Capstone Redback Lead...

3/16 7:55 PM
I am free tonight at 9pm

3/21 11:35 AM

MEETING AGENDA	
Date:	22/3/2023
Time:	8:00 PM

Agenda details

- Follow up on admin tasks:
 - Access set up to Trello boards for your team members,
 - Access set up to Github for your team members,
 - GCP access request form done?
- week 3 – planes to achieve
 - Finalize the team's projects and each member's tasks,
 - Start project's processing,
 - Organize member's access to Github
 - Organize member's access to the required tools
 - Create your Agile (Trello boards, Road map, ...)
 - Next meeting will be held on March 24t

MEETING AGENDA.docx

 Imai, Kevin  Chat Files +

3/22 9:55 PM
Good afternoon Kevin and Imai,
Here is the agenda for tomorrow's meeting.
Have a great evening,
Ella

 MEETING AGENDA (1).pdf ...

1 heart

March 30

3/30 11:29 AM
Morning Kevin and Imai, Here is the agenda for our today's meeting, sorry for late submission

 RedbackWeek4.docx ...

April 2

 2023T1 Capstone Redback Lead...  Chat Files Onboarding Report +

4/5 1:12 PM
Good afternoon Everyone

Here is the link and Agenda for our tonight's meeting.

IMPORTANT:

If you are not able to attend the meeting, please send me a report to indicate your team's progress and workflow over last the week.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMj3Mi00ZDc5LThIZjAtMzKOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Regards,

Ella

 week5.docx ...

 Join conversation X

teams.microsoft.com

 Redback Operations Team Leaders  Chat Files +

care of it from there

March 22

3/22 7:22 PM
with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon Everyone,

Here is the link to our tomorrow meeting with our company's director.

Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKnzgtNTRhZi00ZDFiWjlmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X

teams.microsoft.com

Meeting Minutes

WD WILLIAM DJOJODIREDO Chat Files Organization Activity LinkedIn +

WD WILLIAM DJOJODIREDO 4/4 3:25 PM sure, what time are you available?

WD WILLIAM DJOJODIREDO 4/4 4:16 PM ok sure 

April 5

WD WILLIAM DJOJODIREDO 4/5 9:58 AM hey Ella, want to have the meeting now?

4/5 9:59 AM Sure let me call u

WD WILLIAM DJOJODIREDO 4/5 9:59 AM ok

4/5 10:37 AM
Minute of our meeting:
-william to create a fork to the IOT Girhub Repo
-Willam to research the possible response that might cause the "kicke start bug@
- William to come up with some solutions for those problems
-Willan to attend to the Tusday meeting at the lab

JIKUAN LIU Chat Files Organization Activity LinkedIn +

4/5 12:40 PM <https://trellio.com/b/kj9wulDB/cyber-security>

Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,... trellio.com

Transcript

JIKUAN LIU 4/5 12:50 PM [2-Factor Authentication implementation for Redback.docx](#)

2-Factor Authentication implementation... personal > s222034126_deakin_edu_au

April 6

4/6 10:19 AM Edited
Here is a summarise of our meeting
-Walking through the Github as a group
-Create forks and branches
-Update the Trello with the "done" tasks (the QR code is designed and implemented to the website)
-Currently working on API to implement to the app
- Organise a meeting with Tahlea to clarify her task for her ASAP (its an urgent task)

Redback Operations IOT T12023 Chat Files + March 21

3/21 9:45 AM
For the people that could't make the meeting yesterday, we discussed over following:

Agenda:

- Github and Trello access
- Review the projects
- Google cloude

Name	Task
WILLIAM DIOJODIREJO	Create FIT file/upload to Wahoo API
JARROD YONG	Scripts to start processes on RPi
ETHAN BENJAMIN	Improvements to end-to-end UX
THOMAS MORGAN	Scripts to start processes on RPi
MOMIN KHALID BUTT	Limit rate-of-transmission from RPi (GCP cost)
AHMAD RIAZ	Heart rate publishing issue
	Limit rate-of-transmission from RPi (GCP cost)
	Ethics submission for Gas Sensor System
	Ethics submission for Gas Sensor System

Task for this week

- Resourcing (Github, handover doc, other resources in the team channel)
- Planning (Trello, Road-map)

Redback Operations IOT T12023 Chat Files +

New ticket made for integrating KICKR speed for use in controlling the fan

1

Tuesday 9:01 PM
Briefing of our tonight meeting:

Thomas to search up if we could run the work outs and FTP scripts locally through the PI, without needing the APP running.

Thomas to create new tasks in Trello board, about running the fan and Kickr scripts,

William to search about the existing apps and tools to able the IOT team get access to the PI remotely,

Momin to start research about how we could Use kickr data values to control/adjust fan's operation

SINDHUJA MANDRU Chat Files Organization Activity LinkedIn +

SM SINDHUJA MANDRU 4/4 10:21 AM Yeah sure

4/4 10:47 AM
You could research about each field through "online wahoo documentation" which is well documented, Start here: <https://developer.garmin.com/fit/protocol/>
It is the GARMIN Documentation, Garmin own FIT files, So this is **general** infomation

FIT Protocol | FIT SDK | Garmin Developers X
FIT Protocol
developer.garmin.com

4/4 6:55 PM
Hi Sindhuja
Do we have any update to run our meeting tonight?

SM SINDHUJA MANDRU 4/4 6:57 PM
Hi Ella
Going through the fields in data file
Updated trello broad till yesterday
Do you want to discuss anything

4/4 6:58 PM
No, I also don't have any update to bring up

Provided 1:1 Support

The screenshot shows a messaging interface with a header bar for 'NASIM EMADI' and navigation links for Chat, Files, Organization, Activity, LinkedIn, and a plus sign. A modal window displays a GitHub repository overview for 'redbackoperations' with 9 repositories available, linking to <https://github.com/redbackoperations>.

Message 1: as all the Repos are public if u just provide them this link they will be able to clone, fork and create their branch

Message 2: NASIM EMADI 4/3 11:27 AM
Should I create new folder T1_2023 ?

Message 3: My project is new initiative

Message 4: 4/3 11:27 AM
but I assign u as collaborator, meaning its just u that are able to merge to the main branch

Message 5: NASIM EMADI 4/3 11:27 AM
Thanks

Message 6: 4/3 11:27 AM
NASIM EMADI 4/3/2023, 11:27 AM
Should I create new folder T1_2023 ?
I suggest, 1

Message 7: it's your go, do as u think works better for u and your team

NASIM EMADI Chat Files Organization Activity LinkedIn +

4/3 11:30 AM
U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch, they can submit a request, its gives u the opportunity to check their work first and then merge itg

NASIM EMADI 4/3 11:30 AM
ELLA KARIMI ZARANDI 4/3/2023, 11:30 AM
U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch...

Yep, Makes sense

thanks

April 5

NASIM EMADI 4/5 7:49 PM
Hi Ella, I am ready if you want to have a quick call here

NASIM EMADI 4/5 7:56 PM
nemadi@deakin.edu.au

4/5 7:59 PM
<https://trello.com/b/kj9wulDB/cyber-security>

 Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...

trello.com

AHMAD RIAZ Chat Files Organization Activity LinkedIn +

AHMAD RIAZ 3/18 3:14 PM
Hi Ella, Can you please add me to the project group chat please

Just updated on my side already added thanks

3/18 4:10 PM
I believe I did, let me check

Redback Operations IOT T12023   

I had the same issue about the Trello room does not appear if you're a member of the board with specific access, if not we would include this task as "Overall report" does not

AHMAD RIAZ 3/18 4:10 PM
I have been trying the same to get project up through them and see what's up, ill need to understand how to do it with the understandable first or Member

10:00 AM
Morning team,
Thanks Thomas for your submission on the
Still I'm waiting for other members' pending
Apprds.
Ria

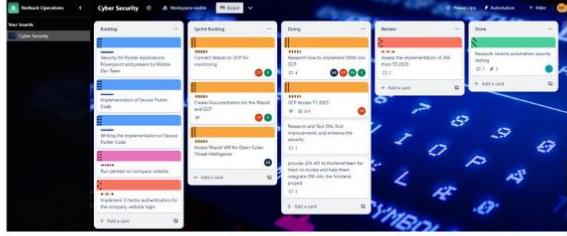
Ella Karimi (EllaKarimi) added Ahmad Riaz to the chat and shared all the history.

Ella Karimi (EllaKarimi) added Ahmad Riaz to the chat and shared all the history.

Wednesday

NASIM EMADI Chat Files Organization Activity LinkedIn +

NE 4/5 8:27 PM Just a quick one. Should I add new board for my project in this new trello or add my project tasks with different lable/colour to existing board?



4/5 8:50 PM It's not the one that shared the link with u, right?

I think it's the one that Melbin has created and it's only him with Admin access

NASIM EMADI 4/5 8:51 PM

ELLA KARIMI ZARANDI 4/5/2023, 7:59 PM <https://trello.com/b/kj9wulDB/cyber-security>

The link is the trello you just shared

4/5 8:54 PM Yep, that's the correct one

In regards to creating new board or working on the existing one is all up to u, but I suggest that u work on this one, so we could have all Cyber projects in same place

JIKUAN LIU Chat Files Organization Activity LinkedIn +

Join conversation teams.microsoft.com

Please be sure u have updated 2FA Trello board, I would like to know about your team members' tasks and the project's progress

Please be sure you are prepared for the meeting

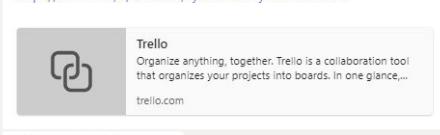
JIKUAN LIU 4/5 12:23 PM somehow, I can't edit the content of the board in Trello

4/5 12:26 PM are u free now?

JIKUAN LIU 4/5 12:28 PM yes

4/5 12:29 PM Bring up the Trello board and call me plz

JIKUAN LIU 4/5 12:34 PM <https://trello.com/b/R7Fls6Ax/cyber-security-redback-2023>



SM SINDHUJA MANDURU 3/17 11:51 AM
Can you please let me know the team name in teams

Couldn't find it

Got it just now 

Thank you

Anything I have do by this week?

3/17 11:56 AM
yep, please listen to the recorded meeting, then u will find a doc uploaded to the group, if u have any ideas that we could consider it as our tri goal, add it to the doc

SM SINDHUJA MANDURU 3/17 11:56 AM
sure

3/17 11:59 AM
I also posted a welcome message in the AI chat group

TM TIM MAJOR Chat Files Organization Activity LinkedIn +

TM Hi Ella. I hope you're well.

I am enrolled in T1/23 for the Capstone B project as a senior. I was under the impression that if we completed the units in consecutive trimesters we would be automatically added back into the company and team that we were a part of in the previous semester. However, it seems that this isn't the case. I'll add the link of the post from Michelle Yu ([Michelle Yu: Company Registration](#) posted in SIT378-SIT782 Team Project (B) - Execution And Delivery 2023 T1 / General at Monday, 6 March 2023 4:23:43 pm)

As a result, I am also not listed as a member of the team on the Excel spreadsheet containing the list of members.

I have spoken to Caitlin and have been told the the Cyber team has had some leadership issues, but I haven't been able to effectively communicate as I haven't been added into the chat. She has tried to invite me but I haven't received anything.

I was wondering if there was anything that you were able to do from your end to get me going? I have been working on my own research at this stage, so I have a few hours in my logbook already.

Thank you and kind regards,
Tim

 Join conversation
teams.microsoft.com

Sunday

Sunday 5:41 PM Edited
Hi Tim, I will get in touch with Caitlin, as she is responsible to add you to her channel,

You could refer to this conversation and notify her that if she is not able to add you to the channel, then she needs to find a solution about that.

TIM MAJOR Chat Files Organization Activity LinkedIn +

Hi Ella, I hope you're well.

I am enrolled in T1/23 for the Capstone B project as a senior. I was under the impression that if we completed the units in consecutive trimesters we would be automatically added back into the company and team that we were a part of in the previous semester. However, it seems that this isn't the case. I'll add the link of the post from Michelle Yu ([Michelle Yu: Company Registration](#)) posted in SIT378-SIT782 Team Project (B) - Execution And Delivery 2023 T1 / General at Monday, 6 March 2023 4:23:43 pm)

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Thank you and kind regards,
Tim

Join conversation
[teams.microsoft.com](#)

Sunday

Sunday 5:41 PM Edited
Hi Tim, I will get in touch with Caitlin, as its she that is responsible to add u to her channel,

u could refer to this conversation and notify her that if she is not able to add u to the channel, then she need to find a solution about that.

Sunday 5:47 PM
Hi Caitlin, please add TIM MAJOR to your chat channel, as he seems that he doesn't have any idea of whats going on in the project, as he idoensn't have access to the chat channel, so he is not able to get any update or attend to the meetings.

thanks

CAITLIN PARKER Sunday 6:20 PM Edited
Hi Ella, I already tried before he messaged you. I think only Melvin has access to that channel as the owner. This is one of the reason why I recommend not making all brand new stuff for this trimester and using existing stuff that other people have access to and can be added in, but I got told no and that you having access would be enough.
Are you unable to add him?
If not than unfortunately there is not much I can do. I have already sent a request to Melvin for Tim to be added. All I can recommend is maybe you as the company lead to tell people to start using the channel in the company team

Sunday 9:01 PM
using the channel is something that team leaders decide about, I think the only way is u guys use another channel, U might think about using the company channel, or create a new one

I really dont mind what u use, I just want u guys have a channel that u are able to add/edit stuff

Tuesday

TIM MAJOR Tuesday 5:50 PM
Hi Ella, thank you for doing that. Caitlin had tried to send me an invite previously but it just never came through. I have been added to the channel! 

Tuesday 6:14 PM
Good to hear that you are added to the channel 😊

HILAL IRSHAD Chat Files Organization Activity LinkedIn +

HILAL IRSHAD 3/19 10:01 AM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.
 1

3/19 6:01 PM
HILAL IRSHAD 3/19/2023, 10:01 AM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.
I posted some feed back and resources for u in the leadership channel

HILAL IRSHAD 3/19 6:04 PM
I saw it but it wont be possible for me to complete all the road map can I choose few and work on it
 1

HILAL IRSHAD 3/19 6:09 PM
Are you coming tomorrow to University?
Burwood Campus?

3/19 8:01 PM
HILAL IRSHAD 3/19/2023, 6:09 PM
Are you coming tomorrow to University?
yep, will be there around 10:00 am I think

3/19 8:12 PM
Hilal, could u send the final edited report plz
plz post it to the leadership channel

SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/26 8:22 PM
Hey Ella, I just wanted to be in Tableau Dashboard team but I think I am not into any right now. I am very clueless right now, that where I could find that I have to go to check, that I have been allocated to a team.

3/26 8:25 PM
Hi Saransh, Data/AI team leader is Mark. Please get in touch with him to add u to the project

SARANSH GUPTA 3/26 8:29 PM
Thanks Ella for quick response.
 1

March 28

SARANSH GUPTA 3/28 7:42 AM
Hey Ella, I had a word with Mark. He told me that you are the only one who has joined late into the unit. He told me to come up with a new project. Is there any way that I could contribute in the earlier projects as I am a junior at this stage and this is all a new thing for me?

3/28 8:06 AM
Hi Saransh, let me talk with Mark to see if we can join u to one of the current projects
Will update u by tonight

SARANSH GUPTA 3/28 8:09 AM
It will be great, the only thing was I came late in Australia. I will try my very best to catch up as I am done with most of the things now.
 1

3/28 8:11 AM
I do my best to place u in one of our project.
 1

SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/29 7:16 PM
Hey Ella, I had a word with Prastut. Can I work under him in Data Warehouse? Or the project can only be done by 1 or 2 people in it?

3/29 7:33 PM
no its fine if he is happy, u could share the task/project 😊

if it is finalized let me know to add u to the AI team, under that project

SARANSH GUPTA 3/29 7:37 PM
Yeah, he is fine with it

3/29 7:38 PM
cool, please let me know which project is it?

SARANSH GUPTA 3/29 7:39 PM
Data Warehouse

3/29 7:49 PM
I asked mark to add u to the AI group as well

Sunday

SARANSH GUPTA Sunday 2:17 PM
Hey Ella, I just want to know one thing, if I am not a leader of the group, I won't be able to aim distinction or higher in this unit?

Sunday 5:34 PM
Hi Saranch, of course u can, U only need to be sure that you collect some evidence that shows u have done some project managing activities, such as creating/updating the cards in the Trello boards, organising some meetings or ...

I suggest u to also ask Atabak(our unit chair) what esle u could do to show that u deserve to get HD in terms of ledership requirements

Supported Juniors On there presentation

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ..

Lennon Chang 3/30 10:48 AM
Dear leadership team,

The junior members are asked to do a presentation about your company in the Week 5 Class. Could you please help identify one to two junior students to represent your company to do the presentation? It will be similar to the presentation you did in week 4 in your class. The juniors can use the same PowerPoint your company prepared for the presentation this week but please make sure that they keep the presentation within 5 minutes.

Thank you and please let me know if you have any question.

Regards,
Lennon Chang, Unit Chair, SIT374/764

3/30 11:23 AM

Lennon Chang 3/30/2023, 10:48 AM
Dear leadership team, The junior members are asked to do a presentation about your company in the Week 5 Class. Could you...

I will work on it and will update u Lennon, Regards, Ella

1

Q Search ... 

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report + 

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ... 

March 31

3/31 11:13 AM Edited

IMPORTANT

Hi Everyone,

We are still looking for juniors to present for our company on Monday. It will be 5 min presentation and 5 min Q/A, and I would like to have at least three juniors work together through this presentation, to share the task load.

For now, we only have one member from AI team.

I would like to ask you to introduce a junior in your team to participate. And if u are a Junior leader, it would be great if u take care of it.

The presentation slides are prepared and I have placed them in the File in this channel, and u only need to present it.

I also am here to support you guys, if you need any assistance.

The presentation will be running on coming Monday(3.4.23) at The ProjectA session. The scheduled presentation time is as bellow:

DEADLINE: 5:00 pm This afternoon

Lennon Chang	10:54 AM
9:20 AM	Chameleon
9:30 AM	DataBytes
9:40 AM	Gopher
9:50 AM	Hardhat
10:00 AM	Redback
10:10 PM	Thoth Tech

Q Search ... 

A Redback Operations IOT T12023 Chat Files + 

March 30

3/30 11:24 AM

Dear leadership team,

The junior members are asked to do a presentation about your company in the Week 5 Class. Could you please help identify one to two junior students to represent your company to do the presentation? It will be similar to the presentation you did in week 4 in your class. The juniors can use the same PowerPoint your company prepared for the presentation this week but please make sure that they keep the presentation within 5 minutes.

Thank you and please let me know if you have any question.

Regards,
Lennon Chang, Unit Chair, SIT374/764

morning team.

Here is I have received about junior's week 5 presentation, who would like to take part? I though first I share it here in our team, but I need response by 2:00 pm. If I dont hear back from u, then I will post it in other teams as well

March 31

3/31 11:35 AM Edited

Hi ETHAN BENJAMIN HARIS SAJJAD JARROD YONG THOMAS JAMES MORGAN WILLIAM DJOJODIREJO , I need one of u to participate in the presenting our company presentation on Monday, at ProjectA session, we already have a member from AI, but as its a Q/A seession after the presentation, I would like someone be there from IOT team, to answer the questions related in our team. The presentation is prepared and u only need to present it. It's onle 10min presentation and redback will presenting at 10:00 am.

 UpdatedCompanyStructurePresentation... ...

 Redback Operations IOT T12023 Chat Files +

ETHAN BENJAMIN 3/31 4:07 PM
ELLA KARIMI ZARANDI 3/31/2023, 11:35 AM
Hi
ETHAN BENJAMIN HARIS SAJJAD JARROD YONG THOMAS JAMES M...
Hi Ella,
In a worst case situation I am willing to do it but that would be at 1am for me so I'd prefer not to if possible.
But if need be and no one else is able to I am willing to.

April 2

ETHAN BENJAMIN 4/2 7:16 AM Edited
ELLA KARIMI ZARANDI 3/31/2023, 4:07 PM
Hi Ella, In a worst case situation I am willing to do it but that would be at 1am for me so I'd prefer not to if possible. But if need be and no...
Ethan many thanks for that offer. Sorry I'm responding late, as I was waiting for other juniors to reply back, but we only have two people that are happy to take part in the presentation, but again haven't heard back from one of them during these two days. I know how it might be hard for you to present that late at night, but will be a great support for the whole company, if you could participate in the junior presentation, I will also add you to the Junior presentation channel, there you could have discussion over this presentation with other two members.

ETHAN BENJAMIN 4/2 7:17 AM
cool


April 4

Search

 THOMAS JAMES MORGAN Chat Files Organization Activity LinkedIn +

March 30

3/30 11:30 PM
Hi Thomas,
The junior members are asked to do a presentation about our company in the Week 5 Class.
So we need one to two junior students to represent our company to do the presentation. The juniors can use the same PowerPoint that seniors prepared for the presentation this week, but please make sure that you keep the presentation within 5 minutes.
Please let me know if you are able to take care of this task, as I'm sure you are capable of doing that, and it's so easy. I also could help you in all the process.
Regards,
Ella

March 31

THOMAS JAMES MORGAN 3/31 3:41 PM
Hi Ella, my father has had an issue and I've had to take him to the hospital and care for him this weekend so I won't be able to attend tonight's meeting and I won't be capable of preparing for this presentation, sorry

3/31 5:04 PM
oh so sorry to hear that, hope he feels well soon. don't stress, we will be taking care of the presentation

March 31, 2023

 ELLA KARIMI ZARANDI 3/30, 11:27 PM Edited
Hi General
The junior members are asked to do a presentation about our company in the Week 5 Class.
So we need one to two junior students to represent our company to do the presentation. The juniors can use the same PowerPoint that seniors prepared for the presentation this week, but please make sure that you keep the presentation within 5 minutes.
Please let me know if you are able to take care of this task, I also could help you in all the process.
Regards,
Ella
[See less](#)

 UpdatedCompanyStructurePresentation.pptx

4 replies from you and MIRIAM

Reply

Search

Juniors'CompanyStructurePres... Chat Files +

ELLA KARIMI ZARANDI added HARIS SAJJAD and MIRIAM LLAUCE COTRINA to the chat.

3/31 5:15 PM Hi team, I have created this chat group for u to be able to discuss over the Junior's presentation and get prepared for Monday

ELLA KARIMI ZARANDI changed the group name to Juniors'CompanyStructurePresentation.

3/31 5:18 PM It will be 5 min presentation and 5 min Q/A, and I would like to have at least three juniors work together through this presentation, to share the task load.
The presentation slides are prepared and attached to this post. You are welcome to use the same one or create yours
I also am here to support you guys, if you need any assistance.
The presentation will be running on coming Monday(3.4.23) at The ProjectA session. The scheduled presentation time is as bellow:

9:20 AM	Chameleon
9:30 AM	DataBytes
9:40 AM	Gopher
9:50 AM	Hardhat
10:00 AM	Redback
10:10 PM	Thoth Tech

UpdatedCompanyStructurePresentation... ...

April 2

Search

Juniors'CompanyStructurePres... Chat Files +

ELLA KARIMI ZARANDI added ETHAN BENJAMIN to the chat and shared all chat history.

ETHAN BENJAMIN 4/2 7:25 AM hey ella. could you grant me access to the presentation file please?

4/2 7:28 AM sure, as u are just added to the group that's why u are not able to access to that. I will upload the file again

UpdatedCompanyStructurePresentation... ...

Edited
ETHAN BENJAMIN please let me know if u are not get access to the new one

Provided Team leaders with Resources, Feedbacks and Guidance on Completing the Team Reports

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/16 10:40 PM Edited
Hi Folks,

PLEASE CONSIDER THIS, AS URGENT TASK.

I would like you all complete and submit your team's report, objectives and goals by tomorrow 8:00pm, it will only take u about 1 hour, and as we need to submit this task by Sunday, so I would like you all to do your best to complete it by tomorrow night. For your information, here is the latest company report,

Company ReportT32022.pdf ...

3/16 10:51 PM Edited
To make it easier for u, here is a template that u guys could complete your team's info through it,

Template (1).docx ...

MELVIN MANOJ 3/19 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups.

Cyber Security Team 2.1P Updated .docx ...

BRIAN DANG 3/19 5:30 PM
Updated document for Web-Design team
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0elLyJgyK9GaU/edit?usp=sharing

Web Design
Team Name: Web Development and Design Overview, Goals, and Objectives The web development and design...
docs.google.com

3/19 8:31 PM
MELVIN MANOJ 3/19/2023, 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups. Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members		
Member Name	Role	Task
Adam Namey	Junior	Incident monitoring (Research and Implementation strategy to place in GCP environment)
Carla Estells	Junior	Incident Monitoring [Research and Implementation]
Gillian Parker	Senior	Incident Monitoring (Research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobochukwe Uzoka	Junior	

ARJODH ARJODH SINGH Wednesday 12:00 AM
Devops team trello board:<https://trello.com/b/SvbARmmY/devops>

Roadmap.docx ...

Wednesday 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and ...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.

DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

3/19 10:00 AM

THE TUNG TRUONG 3/18/2023, 9:14 PM

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...

Hi Tung,

Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section,

Please focus on **APP RESPONSIVENESS** as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part,

AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not

You also may refer to the attached pdf file to get access to the "open issues" and "Road map".

 Mobile team.pdf

...

1

3/19 10:40 AM

Some tips when are working on the team report:

- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (EX: the reason you think that project is required to be added/improved or what problems would be solved),

- In the " Deliverables" section, you would breakdown your projects ~~to~~ to the Deliverables features/tasks to assign to your team members to get developed and delivered,

3/19 11:05 AM

HILAL IRSYAD 3/19/2023, 9:42 AM

 VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features, (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only " Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product,(please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

 VR.pdf

...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM

 DevOps.docx

Perfectly done, Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives " section,

 ARJODH ARJODH SINGH 3/19 11:36 AM
Hi Ella,
Are you referring to this piece:

Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project contents from Github into the Google cloud platform. To define more clearly, the culmination of all works from the Redback Operations Team was created into a Github repository ready for access by all its team members and by the public. However, the plethora of code-files need to be uploaded as a web application in an online platform. For this process, we are using Google Cloud Platform as our deployment structure. Moreover, the code-files are created to accommodate for "containerization" of the applications. Some great advantages of this are cost cutting and easy test and deployment cycles. So, our project focusses on deployment of these docker applications into the Google Cloud Platform. Which prepares the "containerised" for access to the internet.Tech Stack:


3/19 12:58 PM
ARJODH ARJODH SINGH 3/19/2023, 11:37 AM
Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project...
Yep

 ARJODH ARJODH SINGH 3/19 1:18 PM
Ella- I've updated that section. Please have a look and let me know.
 DevOps.docx ...
3/19 2:05 PM Edited
BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC T2j_jW0ellJgyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info,

PLEASE assign tasks to the team members,

 Web-Design.pdf ...

Hi folks, In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report ➤ Community ➤ How to participate ➤ Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage, due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document, I will update the document based on your feedbacks

 1

3/18 9:13 PM Edited

MELVIN MANOJ 3/18/2023, 5:06 PM

 Cyber Security Team 2.1P.docx

Perfectly Done, Thanks Melvin, and the Cyber team,

I noticed that you have come up with two projects so far. As we have 9 people in the Cyber team, I would like we add more features/projects to the team, would really appreciate it if you and your team keep diving into the docs and projects, or conduct some research to come up with more goals, alternatively, I would sit with Jesse this week to discuss this matter future.

THE TUNG TRUONG 3/18 9:14 PM Edited

ELLA KARIMI ZARANDI 3/18/2023, 8:53 PM

Hi the Tung and thanks for submitting your team report, Here are some feedbacks: -Please fix all the spelling/grammar mistakes, -In th...

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is really hard to assign the task to the member now. Because we are running on Agile, tasks will be changed after a sprint. So I can only write it in a general way. Anyway, please have a look and give me feedback. Thanks Ella!

THE TUNG TRUONG 3/18 9:23 PM

Btw, I notice that on the Figma the 2 features Marketplace and the Buy/Sell is not exist yet. So I need the help from the Design team to create this two features. For now we will focus on resolving the current issues first (implement the validation...)

BRIAN DANG 3/18 9:31 PM

https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0ellyJgyK9GaU/edit?usp=sharing

Informed members of Company structure submission

ELLA KARIMI ZARANDI 3/26, 10:23 PM

Hi @General

I would like to confirm that the company's report (which is the Task 2.1 requirement as well) has been submitted by me on behalf of seniors and by THOMAS JAMES MORGAN on behalf of juniors,

[See more](#)

 UpdatedCompanyReportT12023.pdf ...



Company Presentation

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/22 4:55 PM
Hi team,
We are required to present our Company structure and objectives in the **Week 4 lecture (Tuesday 11 am)**.
Please start to prepare your presentation to add it to the Powerpoint that I will share here tomorrow.
We will discuss this further, in our tonight meeting.
Regards,
Ella

MARK TELLEY 3/22 6:41 PM
Hey Ella, is a 3 - 4 min presentation sufficient?

3/22 7:20 PM
Yep Mark, its a 5min presentation, I would say for each team we could spend about 40sec, 1

3/22 7:30 PM
with the focus on summarising the objectives/planned deliverables.

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/27 6:11 PM
Here is the company current Powerpoint, Still I need to work on the IOT section, The teams that haven't sent their slides yet please add them to this Powerpoint

CompanyStructurePresentation.pptx ...

Edited

Hi leaders, our company presentation is scheduled for 11:50 am tomorrow, if u would like to participate in the presenting (ONLY SENIORS) please let me know by 9:00 pm tonight

THE TUNG TRUONG 3/27 7:57 PM
Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ... 1

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

THE TUNG TRUONG 3/27 7:57 PM Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ...

1

3/27 8:44 PM Edited Here is the Updated Powerpoint file, please review your team's section to besure everything is correct.

UpdatedCompanyStructurePresentation... ...

MARK TELLEY 3/27 8:47 PM Thanks Ella, note, i'll make some minor changes tomorrow morning

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

March 28

Luxing Yang 3/28 10:11 AM Good morning everyone, are you ready for the company presentation today?

3/28 10:13 AM Morning Luxing, Sure we are, Mark and I will be running the presentation 😊

Luxing Yang 3/28 10:14 AM Thanks **ELLA KARIMI ZARANDI** for letting me know. Looking forward to your presentation.

1

Company On-Boarding

Redback Operations Team Leaders Chat Files +

JARROD YONG 3/14 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be interested in doing it but I actually don't think I'll have the time to lead and help in another project would it be alright if I could step down as a team lead?

1

3/14 8:25 PM

YIANNIS DOULGERAKIS 3/14/2023, 8:21 PM now where can we find the tasks? or do we create the tasks ourselves?

Yep, its your responsibility to assign tasks to your student, based on the team's goals and the students' capabilities. If you had issues to come up with new goals or you find out that there are not enough tasks for everyone to get assigned to, please reach out to me,

JARROD YONG 3/14/2023, 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be...

That's fine Jarrod, I will call out to see who can lead this team then

1

YIANNIS DOULGERAKIS changed the group name to Redback Operations Team Leaders.

ELLA KARIMI ZARANDI added Unknown user to the chat.

March 15

3/15 3:02 PM Hi leaders, I am still waiting for your email to be able to set up your accses

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ ...

ELLA KARIMI ZARANDI 3/8, 10:17 AM @General

Morning team,

Here is an Excel file, that indicates the record of some of our onboard team members, based on what I received from you guys and Michele till yesterday 2:00pm,

Would be great if you go through it and if you don't see your information, please add yours, by no later than tomorrow at 12:00 pm,

If you are not able to find your info in that spreadsheet, but you have already sent me your information, (here or through direct message) after 2:00 pm yesterday, would be great if you also add yours into the spreadsheet,

If for any reason you are not able to add your info to the spreadsheet, message me, so I am happy to take care of it for you tonight after work.

Regards,

Ella

[See less](#)

 Onboarding Report - Redback Operations.xlsx ...

[Reply](#)

Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict...

ELLA KARIMI ZARANDI 3/9, 6:13 PM Edited Hi @General,

Here is a pdf file showing the members' record based on the information you have submitted.

Please check it out and if you can't find your record, it means that I haven't got yours, so please send it ASAP, so I could update the form,

Regards,

Ella

[See less](#)

 OnboardMembersUpdated.pdf RedbackOperations9 >General ...

[Reply](#)

March 10, 2023

ELLA KARIMI ZARANDI 3/10, 10:51 AM Hi @General,

Could I ask u to walk through your preferred team's handover docs, before tonight meeting, (I have shared the handover docs earlier in this channel) to get a sense of what projects each team works on, what is done and what is left, u also might come up with some fresh ideas to set as goal for your team for this trimester,

Also I would like give u a briefing on some leadership expected tasks, its lots of responsibility for you to take to run a team as a team leader, with main ones: planning goals for the team to achieve(short/long term and for whole trimester), breaking down the goals, assign tasks to the members, creating Trello (or use your own agile tool) and tracking the performance of the team overall and members as individual and supporting the team members which are struggling with their assigned tasks ,

Look forward meeting you at the meeting tonight,

Regards,

Ella

[See less](#)

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict...

Reply March 16, 2023

ELLA KARIMI ZARANDI 3/16, 7:36 AM General Morning team, please check out the updated list of our team members.

Finalized members list.pdf ...

9 replies from STEPHEN TOBECHUKWU, DANIEL, EVAN, and 6 others

Reply

ELLA KARIMI ZARANDI 3/16, 8:41 PM @General

Hi folks,
If you are not in the list, you may get in touch/ send text to the team leader to add you to their list,
Regards,
Ella
See less

Reply March 17, 2023

ELLA KARIMI ZARANDI 3/17, 12:14 PM Hi @General
Please let me know if you havent hear from your team leaders yet.
Regards,
Ella

JF JIAHAO FENG 3/17, 3:09 PM Edited Hi Ella, can you upt me to VR tram. becasue our leadr do not know how add me to team. Thank you.

ELLA KARIMI ZARANDI 3/17, 4:25 PM Hi @General
We need more members to join to VR team, is anyone interested to move to VR team?
Regards,
Ella

Reply March 20, 2023

2023T1 Capstone Redback Lead... Chat Files Onboarding Report + 22

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/17 12:04 PM Hi everyone, about the team report, u may share the template with your team to have it completed collaboratively. Also I have added the new members to our list, be sure that u adding them to your chat group/ team group, here is the updated member list

Finalized members list.xlsx ...

3/17 12:33 PM Edited Here is a link to our weekly meeting, including tonight

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTrkNDU0MWUtZDgxNi00Y2ZkLWJlY2MtM2JiYzYyNWMwMDcx%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Join conversation X

April 6, 2023

ELLA KARIMI ZARANDI 3/17, 12:08 PM Edited
@General
Hi everyone,
I have added the new members to the list, plz check it out and let me know if u dont find your name , Also plz get in touch with the team leaders and ask them to add u to their group chat/team group ,Regards,
Ella
[See less](#)

 Finalized team members list.xlsx ...
18 replies from you, AHMAD, MOMIN KHALID, and 7 others

Reply @

XINYU ZHANG Chat Files Organization Activity LinkedIn +

Saturday 8:36 AM
Hi Xinyu Zhang
My name is Ella and I'm Redback company leader,
Just checking if u have been placed in any team or project yet?

Sunday

XINYU ZHANG Sunday 7:30 PM
I haven't joined any group because it seems like all the teams are full 😊

Sunday 9:16 PM
Based on your skills what team do u believe is suitable for u to join?

XINYU ZHANG Sunday 11:51 PM
maybe the AI?or VR. 🤖

Monday

Monday 8:34 AM
I will add u to VR, as we have lots of people in AI
please get in touch with HILAL IRSASHAD, who is the VR team leader refer to this chat and ask him to add u to the VR team

XINYU ZHANG Monday 4:47 PM
thank you
👉 1

Task allocation to team members

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 2:02 PM Hi team,
Tonight I would like we finalize the IOT projects,
Currently I am studying through the handover doc and github, to find out which projects we are going to run this Tri,
Later in the afternoon I will provide the project list here for u to pick; and alternatively I will be available between 9:00 to 9:30 to have a team meeting, if anyone needed any assistance or info about each project.

3/22 2:50 PM IOT Projects.docx ...

3/22 7:28 PM Edited
Hi Everyone , Please RSVP your attendance at the meeting tonight,

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 9:58 PM Share board

Email address or name	Member
Shari	Admin
Ahmed Riaz	Member
Angie Singh Chahal	Member
Ethan Bergman	Member
Hanwen Dun	Member
Jarred Yang	Member
Kushan Arangath	Member
Kyle Sayler	Member

Ahmad, plz pick one of the projects, as u didn't attend to the tonight meeting. I assume u don't have any question about projects,

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 10:16 PM AHMAD RIAZ 3/22/2023, 10:15 PM
ethics submission for gas sensor system is not in the list you send
should i include it as well?

No, I had to cancel that project, as we don't have the gas sensor at the lab right now

"Implementing FTP system" is my main goal for this tri, its about designing workouts, currently we only have one workout, I want we develop at least two more

Tomorrow at 1:00pm I have a meeting with the company director, and I'm required to report on each member's assigned projects, so please be sure you have picked your project by tomorrow 12:00pm

MOMIN KHALID BUTT 3/22 10:23 PM
I am selecting Limit rate-of-transmission from RPi (GCP cost)

3/22 10:23 PM ALSO be aware that you are required to attend our team meetings and I am required to roll the attendees

MOMIN KHALID BUTT 3/22/2023, 10:23 PM
I am selecting Limit rate-of-transmission from RPi (GCP cost)
please add it to the list

I have to leave now, but will check the list tomorrow morning

have a great night everyone

Redback Operations IOT T12023 Chat Files +

Limit rate-of-transmission from RPi (GCP cost)	ETHAN BENJAMIN MOMIN KHALID BUTT	Junior	
Scripts to start processes on RPi	JARROD YONG ETHAN BENJAMIN	Junior	Team Member
Heart rate publishing issue	THOMAS MORGAN WILLIAM DJODODIREJO	Junior Junior	Team Member
Improvements to end-to-end UX	JARROD YONG AHMAD RIAZ Haris Sajjad	Junior Junior	Team Member
Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle			

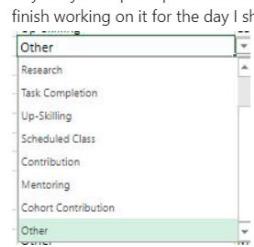
3/24 5:02 PM
Hi team, I need to submit our company's report by tomorrow,(which is the task 2.1 requirement), please be sure u have projects assigned to your name here and in our Trello board

Also, you are required to record your time in the provided work log

Provided guidance about students' question on Capstone and On Track tasks:

STEVEN MAKRIS Chat Files Organization Activity LinkedIn +

STEVEN MAKRIS 4/4 3:11 PM
Hey Ella just a quick question. If I am working on my task (I am the only one that works on it) and it is not completed when I finish working on it for the day I should use "Other" on my workbook or something else?



4/4 3:34 PM
U mean u worked on your project, right? If that's the case just put contributions

STEVEN MAKRIS 4/4 3:34 PM
yes a task for the VR project

contribution then. Thank you

1

THE TUNG TRUONG Sunday 7:44 PM
Hi Ella I have some question

for the week 6 panel

I am not aiming for the HD, but one of my team member is aiming it

will it affect my team member

do I need to make a presentation for my team and submit it for task 5.4HD or the task is individually

Sunday 9:33 PM
Hi Tung, this task is an individual task and you are not required to do anything in terms of other members' grade, good luck with your assignments 😊

THE TUNG TRUONG Sunday 10:02 PM
so do I need to tell my team member to submit for the form that Michele sent to us

Edited
for the presentation in the Week 6 - presentation

Sunday 10:10 PM
That's fine
Yep, if he aims for HD he needs to submit his slides, then u unit chairs will assign time for his presentation

But about form, it's mentioned here if U ARE NO LONGER AMING FOR HD FIIL THE PROVIDED FORM

THE TUNG TRUONG Sunday 10:13 PM
ok I got it, I will fill the form

1

Thanks for your help, Ella

Sunday 10:20 PM
no worries

Keeping Track and Following up on tasks, plans and progress:

A Redback Operations IOT T12023 Chat Files +

3/21 9:56 AM FINAL REMINDER:
URGENT TASK FOR TODAY:
-Pick your project/s,
- Add your name to the list,
-Resourcing (Github, handover doc, other resources in the team channel)
-Planning (Trello, Road-map)
ALL TEAM MEMBERS ARE TO SUBMIT THEIR TRELLO BOARDS BY 8:00 PM TODAY **TO THIS GROUP CHANNEL**,(NOT DIRECTLY TO ME)
If you are not able to make it, RESPOND WITH YOUR REASON,

Q Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELL KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

March 21

3/21 9:46 AM ask for this week
-Resourcing (Github, handover doc, other resources in the team channel)
-Planning (Trello, Road-map)
ALL TEAM LEADERS ARE TO SUBMIT THEIR TRELLO BOARDS BY 8:00 PM TODAY **TO THIS GROUP CHANNEL**,(NOT DIRECTLY TO ME)
If you are not able to make it, RESPOND WITH YOUR REASON,

Search ... 

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

Morning leaders,
As we all required to work together to get the job done, I would like to ask everyone to manage your time to meet the deadlines.
By not follow the time limit, you will put so much pressure on me and also it would affect other teams as well
URGENT task for today:
-Creating your Trello board (if it's not done yet) and your road map
-Start to work on projects and coding, and let me know if u need admin access to any tools
-Get in touch with your students to make sure all team members are aware of their task and have started to work to meet the deadline to finish their first scope of their project
-Send me your road map and a link to your trello board
-Send me your plan for this week
DEADLINE TODAY AT 8:00pm

1 heart

Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a report about your tram progress

THE TUNG TRUONG 4/5 9:15 PM
ELLA KARIMI ZARANDI 4/5/2023, 9:00 PM
Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a...

I thought the meeting is fixed at 8pm

oh australia just change the time zone..

because at 4pm (on my time zone) I switched to this Teams acc but I didn't see any meeting so I continued to work and waited for 15 more minute but I still did not see any meeting and I thought today meeting is cancelled

then I logged out the uni acc and logged in back to my work account, so I did not received any notification

I will send you a report about our Teams tmr

1 thumbs up

April 6

4/6 11:22 AM
Hi Tung. Please give me an update on your team ASAP. Just type here, so I could add it to our weekly Report

THE TUNG TRUONG 4/6 11:42 AM
oke so last week we fix 2 bugs related to the screen responsiveness that I told you last week

Edited
this week our team will finish first agile task is refactor code (current status 70%)

the plan for next week is to create the ui for new screens, redesign the old screens(following the figma from last trimester as I don't know whether the design from this trimester is changed or not)

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/21 11:20 AM

ARJODH ARJODH SINGH 3/21/2023, 11:12 AM
Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM

I would like to let you know that I have scheduled two 15 min weekly meetings, as below:
Wednesdays at 8:00 pm.
Fridays at 8:00 pm.
Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:40 AM

IMPORTANT:

IF YOU ARE NOT ABLE TO ATTEND THE MEETING, Please send me a report (Trello or Excel report) of your team's workflow over last week. It will help me to keep a track on each team members' working/completed tasks in each project. please send me a report of your team's work workflow over last week

1

ARJODH ARJODH SINGH 3/29 7:59 PM
<https://trello.com/b/SvbARmmY/devops>


Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...
trello.com

1

Worklogs

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/23 5:03 PM

Hi Everyone

I was notified that some teams still not using the workbooks to record their time,

The "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

It is essential to keep track of all Team members' hours in the workbook, So All members should record their hours in this workbook.

You are required to Take screenshots from the workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

YANNIS DOULGERAKIS 3/23 5:05 PM Where to find this work book?

3/23 5:20 PM Edited

YANNIS DOULGERAKIS 3/23/2023, 5:05 PM Where to find this work book?

You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team

IOT Worklog 2023 T1 (2).xlsx ...

Redback Operations IOT T12023 Chat Files +

3/23 5:00 PM

This "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

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Take screenshots from that workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

IOT Worklog 2023 T1.xlsx ...

Redback Operations IOT T12023 Chat Files +

I have created one for our team and u could locate it in the file here

https://deakin365-my.sharepoint.com/:g/personal/ekarimizarandi_deakin_edu_au/EVx9ggMnmkNhgkfX2pQ3a_cBTJ-nmHVxs3EBBdly3KhQ

IOT Worklog 2023 T1.xlsx personal > ekarimizarandi_deakin_edu_au ...

THOMAS JAMES MORGAN 3/24/2023, 5:08 PM IOT Worklog 2023 T1?

No, please record your time in our team's worklog

Setting up Access:

March 11, 2023

ELLA KARIMI ZARANDI 3/11, 10:30 AM
@General,
Morning team,
I have managed to organize a meeting with the previous company leader for tomorrow morning to sort out the team leader's access to the required tools and platforms, So really appreciate, if all team leaders provide your email addresses under this post by tonight,
Regards,
Ella

[See less](#)

Reply

HILAL IRSYAD 3/11, 2:13 PM
Hi **ELLA KARIMI ZARANDI!** I'm Hilal Irshad, I have filled the google form for registered myself with the company. Could you help me out when will I have a meeting with my teammates and what role will be assigned to me? I'm interested to work on project 2 (Project Sun cycle VR).
Thanks

Redback Operations Team Leaders Chat Files +

3/16 6:30 AM
I have added u all as Collaborators in the git hub, u should have received an invitation email.

its u that need to set the git hub access for your team members. my advice is just to give them member access, so they are able to clone, but for push to the git hub, they will need to submit a request to u , so u get to check the codes before pushing them to the repository.

we need to have a meeting soon to go through git hub and other things as well, please let me know if tonight at 8:00 works for you guys.

YIANNIS DOULGERAKIS 3/16 6:35 AM
Yes!

3/16 6:38 AM
if u need admin access to unity and Figma plz provide me with your user name, so I could take care of them for u

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/7, 1:29 PM
Hi @General,
Here is the T3, 2022 Redback Operations handover document, would be great if you could read through it to get yourself familiar with the company overall,

 Redback T3HandoverDoc.pdf ...

Reply

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/8, 11:02 AM
Hi @General,
There is a issue with Teams that you might not be able to access forms, So I would also provide you with a share point access link, to get access to the files,

Below is the SharePoint access link to the boarding report,
[Onboarding Report - Redback Operations.xlsx](#)

Regards,
Ella
[See less](#)

Reply

Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

22 3/23

ELLA KARIMI ZARANDI You are able to download it from Deskin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

3/17 10:31 PM
Hi team, as I have mentioned to the meetings, if u still havent got your admin access to git hub or Trello, plz send your email address here, so I could set up your admin accesses

3/17 10:48 PM
HILAL IRSHAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gmail address who has the trello account

3/17 11:01 PM
I have set Trello admin accesses as bellow:
Mobile team --> The Ting
Web - Design team --> Brian (Yiannis doesn't have Trello account under his email address)
DevOps --> Arjdh
Cyber --> Mevin
VR --> (waiting for email address)

As now u all have Trello admin access, you are able to sort out accesses for your student, I suggest to set their access as "member"

Search ...

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

HILAL IRSYAD 3/18 12:12 PM

ELLA KARIMI ZARANDI 3/17/2023, 10:48 PM

HILAL IRSYAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gma...

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

HILAL IRSYAD 3/18 1:00 PM
irshad@deakin.edu.au

3/18 1:25 PM

HILAL IRSYAD 3/18/2023, 12:12 PM

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

Done Hilal 😊 1

Search ...

A Redback Operations IOT T12023 Chat Files +

3/27 7:36 PM

GCP Access have been granted - I'll set this up during the week.

Dear Ella,

As requested, the project "Redback Infrastructure" for Redback Operations has now been adjusted on the Google Cloud Platform to allow team access. This project grants you and your team the ability to use most Google Cloud services.

The following members of your team have access to this project in the role of EDITOR. They are:

- ELLA KARIMI ZARANDI (ekarimizarandi@deakin.edu.au) [Budget notification target]
- WILLIAM DIOJO DIREJO (widojodirejo@deakin.edu.au)
- JARROD YONG (kyong@deakin.edu.au)
- ETHAN BENJAMIN (benjammin@deakin.edu.au)
- THOMAS MORGAN (tmorgan@deakin.edu.au)
- MOMIN KHALID BUTT (mkbutt@deakin.edu.au)
- AHMAD RIAZ (raza@deakin.edu.au)

like normally we have the setting at the right side on the bar, but I couldn't find it so I don't know how to add my team members 😅 1

ELLA KARIMI ZARANDI 3/31/2023, 2:35 PM

I'm at the office now

I understand, thanks for your help Ella 1

3/31 5:05 PM

Hi Tung, is your github account under your Deakin email

I also need the email address to be able to add the team members to the github

[Created the VR repo in GitHub](#)

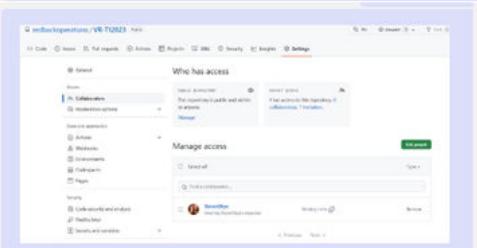
 STEVEN MAKRIS 4/1 3:20 PM
Hey Ella! i am talking from the VR unity team.
I noticed that we dont have any unity project on GitHub.
May i have access to redbackoperations to create a repository with the current project so it can get auto updated to any new changes? thanks

4/2 7:37 AM
Hi Steven, I have created a VR repo, please text me your Github account, so I could add u as collaborater in that repo



 STEVEN MAKRIS 4/2 3:59 PM
my username is: StevenSkye

4/2 4:24 PM
done



 STEVEN MAKRIS 4/2 4:37 PM
thank you


Providing leaders with some projects ideas

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +
ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx 3/23 ...

3/19 10:00 AM
THE TUNG TRUONG 3/18/2023, 9:14 PM
I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...
Hi Tung.
Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section.
Please focus on APP RESPONSIVENESS as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part.
AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not
You also may refer to the attached pdf file to get access to the "open issues" and "Road map".
 Mobile team.pdf ... 

3/19 10:40 AM
Some tips when are working on the team report:
- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (EX: the reason you think that project is required to be added/improved or what problems would be solved),
- In the " Deliverables" section, you would breakdown your projects into the Deliverables features/tasks to assign to your team members to get developed and delivered.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

3/19 11:05 AM

HILAL IRSHAD 3/19/2023, 9:42 AM
VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features. (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product; (please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

VR.pdf ...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM
DevOps.docx

Perfectly done. Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives" section.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC-T2j_wOellygyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info.

PLEASE assign tasks to the team members.

 Web-Design.pdf ...

Hi folks. In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report > Community > How to participate > Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage. due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document. I will update the document based on your feedbacks

1

3/19 8:31 PM

MELVIN MANOJ 3/19/2023, 3:59 PM

Updated Template for cyber team, added more projects and divided them into more groups.  Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members

Member Name	Role	Task
Adam Bainey	Junior	Incident monitoring (research and implementation/strategy to place in GCP environment)
Carla Estella	Junior	Incident Monitoring (Research and Implementation)
Caitlin Parker	Senior	Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobechukwu Uzoka	Junior	

Q Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/20 2:05 PM Edited
Hi leaders,

Good news that OnTrack task 2.1P due date extended to 26 March, so we could edit our report and resubmit it.

Mark is taking care of the content table, and after he shared the edited file here, all other leaders to perform the following editions into their reports:

-Add your team's trello line into your team report,
-Add your road map
-Edit the font colours and font sizes to match the bellow style:

Font: Calibri (Body), size: 11,
Titles: Calibri (Body), size: 12,
Sub Titles: Calibri (Body), size: 11, Bold, blue colours

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog T1 (2).xlsx

3/22 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.
DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

Providing the required links and documents to the members:

Q Search ...

Redback Operations IOT T12023 Chat Files +

3/20 11:54 AM
Redback T3HandoverDoc.pdf ...

3/20 12:42 PM
Content Management System <http://34.129.10.237/> Username admin password redback

Redback Operations IOT T12023 Chat Files +

3/22 10:10 AM JARROD YONG 3/22/2023, 9:19 AM for anyone in today i'm already in the room with the bicycle and ELLA KARIMI ZARANDI if you're around whats the username and passcod...
Username : pi password: capstone374

3/22 10:43 AM AHMAD RIAZ 3/22/2023, 12:56 AM Hey Ella, can you send me the link to trelloboard please., there is nothing coming up on my trello
Done, try and let me know if you have access or not

Redback Operations IOT T12023 Chat Files +

3/23 10:40 AM Here is a link to IOT Trello board, Please check it out and make sure you have a card/s assigned to <https://trello.com/b/pgeElQ/Iot-and-embedded-systems>

 Trello Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance, you can see what's due, who's working on what, and what's been completed. trello.com

12:44 PM Hi Team, I received a few texts about how you apply for the Lab Access. You could use the following link to submit your request <https://apps.deakin.edu.au/keys-and-access/>

2:09 PM Edited Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling you to use select Deakin software from anywhere. <https://deakin365.sharepoint.com/sites/AppsandDesktopsAnywhere> ada.deakin.edu.au

 WILLIAM DJOJODIREDO 8:38 PM ELLA KARIMI ZARANDI 4/13/2023, 2:09 PM Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app...
thanks ella, I'll look through it tomorrow

Cyber Team – Problem Solving

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources. I have created one for IOT. You are welcome to edit/modify this to be used in your team IOT

4/5 11:53 AM Edited Morning Everyone

I would like to let you know that after some discussion I had with two of our teams' members about the issues they faced through their participation in their team and in order to address those issues and speed up the process of the project's progress in their team, we decided to make some changes in their team's hierarchical structure as below:

Cyber team :

Team leaders: Nasim Emadi, nemadi@deakin.edu.au
Caitlin Parker, cjpark@deakin.edu.au

Web-Design team:

Team leader: Avinash Maurya mauryaa@deakin.edu.au

Regards,
Ella

CP CAITLIN PARKER Chat Files Organization Activity LinkedIn +

4/3 9:36 AM
Hi Caitlin, I see u are taking care of all leadership tasks in cyber team.
Just I need someone to also attend to our weekly company meetings with the company directors so n Thursday.
As Melvin is on cyber leadership role, I texted him a few times un this regard, but noting back from him.
If it's u now that taking responsibility on this role plz let me know to add u in our team leader channel, so I could get some update about Cyber team progress

CP CAITLIN PARKER 4/3 6:59 PM
Hi Ella, it was not my intention to become the team leader I just didn't want to fail this subject ^^*
What time Thursday as I have another class on Thursday from 6-8 and work full time.

April 4

TG TAHLEA GRANT 4/5 6:47 PM
Hi Ella, I am just writing as I stumbled across a message from Jikuan and would like some clarity as well as to maybe provide some clarity myself. The message that I received was in regards to the project and how we are servery behind, which I am aware of. I am not sure if it had been paraphrased but in the message it said we should focus on producing 'meaningful work' instead of research and documentation. While I fully agree, and assume the meaning was more tangible work such as code. The repo location was not made known to us until the 27/3 which was all of a week ago. Until this point I had no knowledge of what the code even looked like or what language it was in. Which already placed us in week 4 with no resources related to the project, which is why researching and locating the deliverables was crucial here. This problem prompted me to focus on making some more comprehensive documentation which will encapsulate everything and aid in the continuity and handover of this project for trimester 2, as I believed it would allow for an almost immediate transition for everyone (in tri 2) to start working on the repo and know what the next steps are as it would be documented. After I complete this as well as some upskilling in Java I fully intend to be more hands on and produce tangible code modifications, but it is challenging to do that when I have had the material for only a week. I would love to hear your thoughts on this, if you feel this is inadequate still please let me know so we can work out something for us both. I am also aware you have more capstone knowledge than me so any advice would be great, as hearing this has made me quite worried. Thanks so much in advance 😊

4/5 7:14 PM
Hi Tahlea,

Hope you doing well,

As I also mentioned to Jikuan, you are required to work 100 hours in this unit, and you should be able to provide evidence to showcase that time participation.

You could only spent 20 hours on research and 20 hours on upkilling through entire this Tri, then u need to be able to show you have worked 40 hours on the project progress and then 20 hours for documentation.

We are in the middle of the term and by now you are expected to have enough evidence to show, about 50 hours participation in the Cyber team,

There are three people in that project, so it means that in total we need to see 150 working hours on that project,

This morning after the discussion I had with Jikuan, he wasn't able to showcase that 150 hours team working in the project. Also based on the fact that the "2FA" is an existing project, so I couldn't get it why you had to spend 150 hours just on research, and what the result is?

After spending this amount of time on research why still we don't have any plan for the progress? Why the process is not clear? Why the task are not scoped out and assigned to the members?

We do have another meeting tomorrow at 9:30am, you are welcome to attend and explain more about the result of that 150 hours research.

Regards,
Ella

Thanks for getting back to me so quickly I really appreciate it.

As a junior student I don't have any particular answers as to why things aren't scoped out or aligned well, as it was to my knowledge that this is the responsibility of senior students and leadership students of which I am neither.

To my knowledge no one has claimed to have spent that much time on research, although I understand that you are suggesting we should have spent that much time on the project I can say, at least for myself, due to the inability to locate resources my time allocation and ability to work on this project was limited. You are correct 2FA was an existing project which had documentation sprawled around everywhere and the issue was that exactly. Which is why I was moving toward creating that documentation.

I agree fully we are behind and this project lacks direction and honestly if your recommendation is to find a different project with actual aims and plans I will happily move across. I am genuinely asking for help I am not trying to argue any points. I am saying we had issues finding any documentation and resources which lead us here but I am aware there is more to it than just that now.

So again if you recommendation is for me to move to a project in which I can be a more active member I will take that on and do that. Ultimately I do want to contribute and do well in this unit and obviously I am currently not so I would like to work with you or with your advice to change that.

Unfortunately I am in class at 9:30 so will not be able to attend but thank you for the offer. If there is another time I would like to chat with you. But I am genuinely asking for your help and advice I am not trying to say we did all those hours, I am aware we are behind.

Thanks, Tahlea

4/5 9:14 PM

Tahlea, no there's no need for u to change your project, just stay focused on your tasks and the project's progress plan, none of us are that behind, we just need to speed up the progress process and start to make some obvious visible progress in our projects



April 6



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7

4/7 9:32 AM

Hi Tahlea,
Just updating u about the result of my meeting with Jakuan,
He is to scope the project and assign and clear the task to u

Has he reached out to u to organise a meeting?





NASIM EMADI Chat Files Organization Activity LinkedIn +



NASIM EMADI 4/2 5:17 PM

Hi Ella, hope you have had a good weekend. I am the leader of the vulnerability management/project3 of cyber security.
I am actually wondering to know when is the weekly meeting with the company's directors, I was not, unfortunately, following what required till now about having regular meetings with the company director (or mentors advised by Lennon one of the unit chairs).
I really appreciate it if you notify me when is next meeting and how could I watch any recorded meetings with the director if there were and get up to speed with the project.
thanks

4/2 10:21 PM

Hi Nasim,
Meeting with the company director is on Thursdays at 1:00 pm, which we prefer one person from each team attends to the meeting. (first option is team leaders, but if they are not able to attend another person to cover them)
U may ask Melvin about his plan of attending to that meeting, if he is not able to make it then u could attend on behalf of Cyber team,
In terms of recorded files, We have a team leader's channel that I always share the recorded meetings with directors there,

In terms of other meeting that recently is posted by unit chair and Lennon. They are going to give us a few times to pick, I haven't hear back from them yet, will update u, as soon as I get any news about those meetings

Regards,
Ella



April 3



NASIM EMADI 4/3 9:04 AM

thanks Ella, so I conclude that there is no need to participate in any meeting by myself just you or Melvin will be responsible?!

4/3 9:23 AM

Yep, I prefer one member from each team participate to our meeting with the directors, to talk about their team overall, their projects' progress and their workflow and plans, as I mentioned, u need to talk with Melvin, and as he never attended in any of the meetings till now, actually I would suggest u cover him for those meetings, so at least we have some updates on cyber's team as well,

I sent him text in other day, but didn't get any response



9 Responsible Team Member Progress Report

Show progress on your contributions to the company and that you have a contribution of lasting value

Date	Author	Comment
2023/04/02 07:57	Elaheh Karimi Zarandi	I have emaileld a letter to the unit chairs
2023/04/03 11:23	Luxing Yang	Ella is proactive as a leadership student in the company and has compelling reasons for extension. Extension request is now approved on this basis.
2023/04/16 22:14	Elaheh Karimi Zarandi	Ready to Mark
2023/04/26 11:53	Fatemeh Ansarizadeh	Complete
2023/04/26 11:58	Fatemeh Ansarizadeh	Fix and Resubmit
2023/04/26 12:01	Fatemeh Ansarizadeh	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Responsible Team Member Progress Report

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/04/16 22:14

Tutor:

Yanjun ZHANG

April 16, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699
Target grade: HD

Responsible Team Member Progress Report

Plan

This trimester, I plan to ... (copy in plan from 2.2C)

This trimester I will be working as IOT team leader and also will be taking part in some of the AI projects. I have Strong working knowledge of data tools and analytical skills such as SQL, Python((Scikit-Learn, NumPy, Pandas,...), Tableau , R and Excel to identify business problems and solve them with scientific approaches.

Also I am familiar with a wide array of programming languages and technologies such .Net, C#, HTML5, ASP, CSS3, Java , Node.js, React, By joining to Redback Operations, I wish to put my technical knowledge into practice, while I'm learning and growing new skills, such as GCP, mqtt and BigQuery

Progress Update

In order to be able to perform company leadership duties efficiently, and planning and monitoring the company's projects, the first step was to learn about the company's objective and the status of each team's projects, to identify the existing problems and analyse each products' requirements to be able to plan the possible solutions and develop strategies.

So during the first two weeks I used the available resources to make it clear to myself about involved technical expectations of the company leader, to be able to up-skill myself in all the tools and coding languages which were utilized by the entire company, to be able to collaborate and communicate with different teams.

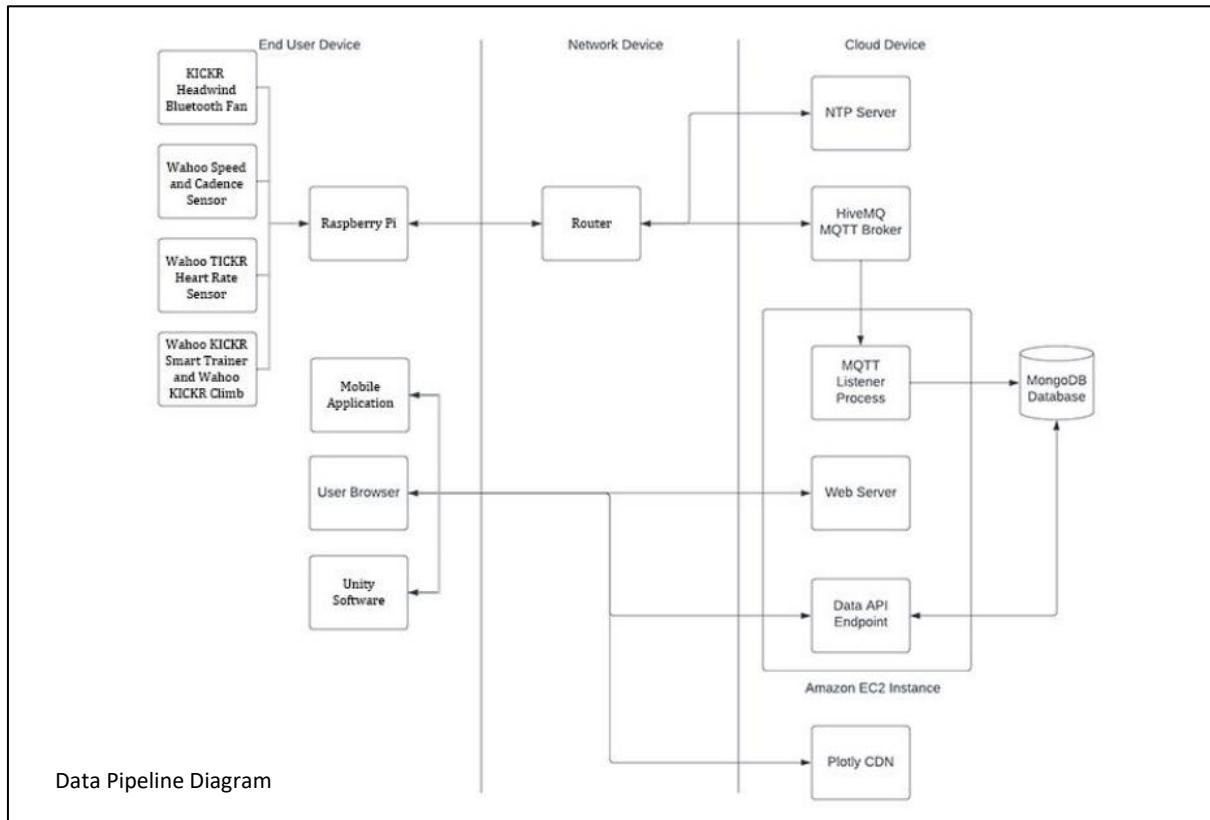
Existing Accessible Resources that Referred to:

- Studied through the handover document,
- Conducted meetings with the previous company leader, "Adrian" and the current AI team leader, "Mark"
- Learned through the GitHub
- Went through resources accessible in the Chat channels
- Referred to the last Trimester Trello boards

Briefing about the company structure from the results of my researches:

The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.



At Redback company we utilize “Contact Management System” (CMS). There is a Raspberry Pi in place which gets the data through the Bluetooth from bike’s sensors (Wahoo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python to get data from riders and sending it off to the mobile app to get used.

The protocol used for this data transport mechanism used by drivers is MQTT.

So to be able to understand all this process I up killed myself in:

- MQTT Protocol and use of it in IOT
- Basics of writing shell scripts to be able run the current scripts in the pi
- Learnt about Wahoo sensors and FIT files
- CMS and how it works,
- Study about google cloud platform
- I will be working on upskilling myself in Python programming on Raspberry Pi

Provide access to required data to all teams

What I wanted was the IOT provide data to other teams as a service, to use.

My plan was to make Raspberry Pi to push the data into Google cloud, as other team don't have GC express, or Python service, so they could call out for the data, and then it goes to them. So the data is available, not just in database, but in the service and is accessible in different ways.

Also I considered to create a projects aiming to " Available the Data to Teams/Users" by integrating the CMS pages into the existing website, with login authentication protecting it.

But after some discussion with Company 'directors and Data/AI leader, this project passed to AI team to complete (Project 11 FIT File Handling and Data Pipeline)

To be able to showcase my knowledge and skills in developing data analytics solutions, I'll be participating in the following Data/AI projects:

❖ Corporate Reporting Project

The Corporate Reporting project aims to create the static reports mentioned below, using SQL queries on the underlying tables.

- weekly summary reports
- Ranking analysis reports
- workout summary reports

There will be views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

In this project I will be working with Sindhuja Manduru

What is done:

As currently the BigQuary is not sorted out yet, so I just could run some researches as below:

- Researched on Strava schema,
- Consultation platform features
- What data we are collecting/needed to be collected
- Health information
- Completed surveys/Collecting Feedback
- Also I had a meeting with Sindhuja Manduru and asked her to conduct a research about the current collected data fields which we are going to use to generate the reports

Talking with mark, he mentioned the BigQuery will be ready by week6, for us to start working on our project.

❖ **Feedback analysis models Project**

This project aims to train and prepare a “feedback analysis model” to be used at the time that we would have the “feedback” feature for any of our products.

As currently we don't have a “Feedback” feature in our products, so I will be using an “Amazon food reviews and rating” dataset in csv format (which are text reviews and rating the food out of five stars)

What is done:

Conducted some research about the technologies to implement this feature, and based on the result, below is my plan to go:

- ✓ Will be using the following two main techniques:
 - Vader Model which is a NLTK (python's natural language toolkit) module that provides sentiment scores based on the words used
 - Roberta model which is a pre-trained transformer model
- ✓ Will explore using some huggingface pipelines for making analysis quick and easy
- ✓ Will conduct analysis and evaluation of the models' performance

❖ **The Cyclist/User Categorisation Project**

This projects aims to employ machine learning algorithms, including k-means clustering, hierarchical clustering, and principal component analysis (PCA), to comprehensively categorise cyclists based on their unique cycling behaviour patterns.

The data used in this analysis will be collected from the Wahoo Kickr or Wahoo Bolt devices and Heart Rate monitor, analysed to develop a system of labels, spanning Pro, Semi-Pro, Amateur, Casual, Climber, and Sprinter cyclists.

These labels will be further developed through data-driven analysis and may undergo changes, based on the outcomes.

The insights gained from this categorisation will be vital in developing SunCycle and to compete with other competitors such apps such as Zwift or Strava, that matches cyclists with similarly skilled riders.

Furthermore, the results of the analysis could be used for targeted marketing, sponsorships, and product development.

My plan is to start this project in week nine. In this project I will be working with Mark.

Participated in IOT projects by identifying the issues, sprite planning, assigning tasks and deadlines, modifying the projects and providing resources, solutions and instructions

-As making the data available for other teams, was my first priority goal in IOT team, So to achieve that purpose, I needed to exactly know about the existing data pipeline working status and how the sensors and Pi working in order to publishing the data. So in week two I headed to the lab and faced the following problems:

- The KICKR would't start, after running the script
- The Heart rate, seemed to be publishing for a few second, and then stopped working,
- The Fan would keep publishing data,(even when it was off, still it would publish 0s,
- To make the bike work, we had to run all scripts manually

So I created a list of these issues as projects/task for IOT team, to work on.

Also to be able to give other teams access to the data we came up with the following two solutions:

- Get the web-design team, to develop an API to present the data stored in CMS in our website(this project is currently on pause, as we decided to try out the second option)
- Create a FIT file, to extract the FIT files from wahoo directly (Mark is currently working on that and he is about to complete it)

- After Review and Evaluate the status of the IOT's current projects and products by referring to the available resources, the following issues are Identified and defined and Suggested some possible solutions to address them

in tri3 2022, IOT just consolidated the implemented projects , means no features or products has been implemented or developed, so I decided we focus on Implementing the features that were already placed in the handover document as well as our new IOT projects,

To find out about the situation of the existing IOT projects, I did a deep study about the current project's problems through handover document, also I headed to the lab to be able to run and test the scripts and try out the Raspberry Pi and other hardware,

Below is the listed issues/bugs I faced to, which are assign to the IOT members to get fixed,

- The KICKR would't start, after running the script,

This bug is fixed,

Defined the bug

- I. Tested/checked out the CMS to be sure the values>0 is also transported

- The Heart rate, seemed to be publishing for a few second, and then stopped working,

(On process)

- The Fan would keep publishing data, (even when it is off, still it would publish 0s,

My participation on this task:

Suggested the solution by modifying the project to also be able to control the fan's operation using IOT's product, for the times that we don't have access to the VR and App's products.

Currently the fan is dependent on the Unity game engine connections and also the heart-rate monitor, so we are not running the fan script at all unless the VR game or Mobile application is running, as they are solely responsible for changing those values.

As now the App is not working, so I advised as a solution we create another projects and conduct some researches about how we could use kickr's data values to control/adjust the Fan's operation, so When the speed is 0, stop sending data to reduce the cost of GCP, also I believe It makes more sense that the fan output is assimilated with the 'speed of the bike', so we want to have the KICKR speed MQTT output to be fed into the FAN python script, such that the Wahoo fan speed increases/decreases as the KICKR speed increases.

• **Developing a 'start_all' script project**

Currently to get the bike start working, we are required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needs to be executed individually,

The aim of this project is developing a single .sh script that able us to start all the .sh, so as soon as Pi is plugged in, we have it ready to publish the data to the cloud or receive the commands to transfer it to the sensors.

My participation on this project:

- Clarified the project to the members
- Following up with the progress and providing feedback and solution when needed. EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the "all-start" scrip project and work on the fix separately.
- Updating the Trello board

- Developing Strength and Endurance workout project

The data is received via Bluetooth using the RPI and submitted via "MQTT" to a broker which distributed that data to relevant process including "The Flutter Mobile App" which can start and stop the workouts.

Problem: The app is now down and we are not able to run and test the workout,

As this workout, was implemented and tested last year, in T2, when the Mobile team leader did a lot of mobile development on his Mac and it worked for him with his iPhone,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also Adrian mentioned that the changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Solution that I came up with:

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-We work on implementing the workouts just from an IOT perspective,

Currently in IOT we are going with the second option.

I have changed two of our members' project and assigned them with the following tasks:

-Search up how to run and start the first workout without using the app,

-Implement and develop Strength and Endurance workouts in their IOT side

10 Leadership Progress Report

Show how you are progressing on your lead contributions, and how you are influencing others

Date	Author	Comment
2023/04/02 07:57	Elaheh Karimi Zarandi	I have emaild a letter to the unit chairs
2023/04/03 11:23	Luxing Yang	Ella is proactive as a leadership student in the company and has compelling reasons for extension. Extension request is now approved on this basis.
2023/04/16 22:15	Elaheh Karimi Zarandi	Ready to Mark
2023/04/19 12:35	Kevin Lee	Well done - it seems like you are taking a leadership role in your area of expertise! Keep going, and I look forward to seeing your further contributions.
2023/04/19 12:35	Kevin Lee	Complete
2023/04/20 02:18	Elaheh Karimi Zarandi	That means a lot coming from you. Thanks, Kevin for your support undefined

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Leadership Progress Report

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/04/16 22:15

Tutor:

Kevin LEE

April 16, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699
Target grade: HD

Leadership Progress Report

Plan

This trimester, I will be running the Redback Operations, as the company leader. I see this opportunity as a way to demonstrate and boost my leadership skills, by performing an effective leadership to the company to Improve productivity of the team members and creates a good work environment, where everyone feel supported. To create and maintain a positive work environment, I would run the following strategies:

- Effective recruiting process,
- Help team members to pick the right teams/projects to join, by providing information about each teams, projects and the tech stacks,
- Encourage participation in planning and task assigning,
- Utilize trello as our Agile tool, to manage the project workflow and task tracking,
- Setting clear expectations for team members,
- Training and providing resources,
- Encourage team collaboration and communication,
- Run regular team meeting,
- Keep track of progress,

Progress Update

- Conducted On-boarding process, with the result of 65 students were integrated into the company.
- Organised the teams and established the leadership
- Collecting information from the students to be able to position them within the company based on their skills and capabilities
- Creating Onboarding reports
- Planning out projects and objectives for the company
- Establishing the company structure and Projects Overview
- Creating projects documentation (Project overview, goals and objectives)
- Assigned tasks and roles to students
- Scope the projects and sprint planning to set timeframes and goals
- Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines
- Organizing and running the meetings, events and agendas and recording the decisions

- **Sorted out access for members to their required tools**
- **Sat the “Redback gmail address” as admin for Github, to make it easier for the next leader to use that to set permissions.**
- **Providing 1:1 support to the leaders and team members, to be sure everyone is on track**
- **Created worklog for IOT team and provided other teams with a desined worklog to modify and use for their teams.**
- **Merged two teams to ensure consistency in work.**
- **Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team**
- **Monitoring and evaluating the project progress across the company, address potential issues and made sure the deadlines are met**
- **Measure and report on project's performance using Tableau and Excel**
- **Act as the point of contact for all participants**
- **Order resources, like equipment and software**
- **Preparing presentation's slides and running the presentations**
- **Promoted communication processes across the company**
 - 1- *Organized and run the meetings and events, created agendas and recorded the decisions.*
 - 2- *Providing 1:1 support to the leaders and team members, to be sure everyone is on track*
 - 3- *Keep track of all teams progress through our meeting and chat channels to stablish team's work flew report, to pass it to the directors in our weekly meetings*
 - 4- *Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.*
- **Encouraged everyone to bring up the problems they are facing to(through 1:1 meetings or direct texts) to seek for the solutions and support**

On week five I was notified by one of the Cyber team members(Nasim) that their team leader does not response to any messages and she didn' have access to Trello and Github yet,

How I supported the Cyber team:

- *Made changes to hierarchical structure, and Nasim and Catiline were assigned as team leader*

- Organised an urgent meeting with all Cyber project leaders to discuss over the projects' process
- Sorted out the cyber team access to the Github and Trello
- Guided Nasim how to apply for GCP for Cyber team and walked her through the GCP application form
- Assisst Nasim and Jikuan to learn how to create cards and tasks in Trello boards
- The following tasks assigned to the project leaders to take act on them urgently
 - Organising a meeting with their project's members
 - Scoping their projects
 - Task assigning to their members
 - Clear the tasks for junior students
 - Provide assistance about how to use GitHub to junior students

• ***Provide access to required data to all teams***

To make sure that all teams, have access to their required data to start their projects, I did some research through handover document and also got in touch with all team leaders and realised that VR and Mobile App runs directly from MQTT,

Data/AI would use a “Master Fitness” dataset, which is accessible using BigQuery in GCP. This dataset is taken from Wahoo, which is an exercise capture data, in FIT format and has been converted to CSV file, using an existing query.)

Cyber team, also get access to their required data through GCP.

• **OH&S submission**

While I was reading through the handover document, I faced to OH&S submission.

To get more information in that regards, I went through Deakin OH&S website and learnt that before any project can be done at Uni involving human participants, a risk assessment is required to be submitted to evaluate the risks.

So I wanted to make sure Riding the exercise bikes to collect and analyse data meets the requirements.

There was an OH&S submission that made by Adrian and Mark last Trimester, so I checked with Kevin to see whether more OH&S applications are needed and made sure that we are not required to prepare a new OH&S submission for this Trimester.

• ***To support the leaders with their project planning process, I conducted a deep research and came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features to our company's products.***

VR Team:

At the end of Tri32022 the work in the VR game was not implemented into the main branch, as they changed the game a bit last trimester to make it side scrolling rather than first person.

My participation on this project:

Identified the issues and suggested the following action to be done in VR team as solutions:

- Implement the current code into the main branch,*
 - As the following features were not completed/implemented to the project, so I asked VR team to work on below tasks as their URGENT task/plan for this Tri,*
- Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature*
 - Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application*
 - Suggested to VR team to employ further sensor data in their product,*

There are four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only " Incline Simulator" and "Incline Simulator sensors" are being used in VR,

So recommended to VR team to conduct some research and come up with some idea about how they could use the other sensors in our VR product.

Mobile Team:

After reading through “Open Issues” in handover doc- page 83 and checking the designed screens, I realized that they are not responsive (didn’t get fit to the screens) when different mobile’s brands were chosen.

*So I asked Mobile team to focus on **App esponsiveness** as one of their main plans for this trimester.*

My participation in this project:

Identified the problem

Created a pdf file and included “open issues” and “Road map” for Mobile team as resource to refer to

Web-Design team:

Based on the project’s status, the following plans were suggested to work on

The following pages to be implemented into the Figma design

- Product Devices
- Exercise History
- Your Daily Report with Exercise
- Exercises
- User Dashboard

Below were the issues that needed to be fixes

- Some images could not be downloaded from figma design. So different images to be used which needs to be altered in some pages.
- As there wasn't website credentials, yearbook feature could not be deployed.
- Even though the website was responsive in different screens size of some images will differ and be uneven

DEV/OPS: To develop a CICD system

- As we have some of our team members living out of Australia, I took the following actions to be able solve the issues they faced to:

- Sorted out remote access to Rpi

- I searched up and the following solution was found and passed to IOT team, to be implemented:

To connect remotely, SSH and VNC must be activated on Raspberry Pi. Click on the main menu and choose Preferences > Raspberry Pi Configuration. Choose the Interfaces tab and set both SSH and VNC to Enabled. The VNC icon appears in the menu bar

- Also I conducted another research on application we could use for our remote access and shared the result with IOT team (specifically William) to use the ada.deakin.edu.au link to search up about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling students to use select Deakin software from anywhere.

- Organized meeting times to address everyone availabilities,

11 HD Panel Presentation

Present your progress in capstone, and how your achievements show that you are on track to demonstrate greatness through the capstone program

Date	Author	Comment
2023/04/09 22:19	Elaheh Zarandi	Ready to Mark
2023/04/19 08:14	Elaheh Zarandi	Not Started
2023/04/19 08:15	Elaheh Zarandi	Ready to Mark
2023/04/19 08:15	Kevin Lee	Time Exceeded
2023/04/19 08:18	Elaheh Zarandi	Morning Teaching Team, this morning I tried to submit the updated presentation slide, but now im getting the message that as it's been submitted after due date, so it won't be checked by tutors
2023/04/19 08:20	Elaheh Zarandi	Just would like to let you know that the task was submitted before the due date, and today I just submitted the updated one, as we were told that we do have time to edit our presentation slides by our presentation time
2023/04/19 08:21	Elaheh Zarandi	Regards, Ella
2023/04/19 11:00	Kevin Lee	This was a good presentation. For the 11.3HD task, you need to slow down, make the presentation more concise and only focus on the excellent outcomes. Don't talk about the aims of the company at length, activities etc. Talk about how you have succeeded in organising the company, and successes there. You should be encouraged for your work and present your individual excellence for the 11.3HD task.
2023/04/19 11:00	Kevin Lee	Complete
2023/04/19 11:05	Elaheh Zarandi	Thanks Kevin for your feedback, I will do as you advised on my final presentation

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

HD Panel Presentation

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/04/19 11:14

Tutor:

Kevin LEE

April 19, 2023





Redback Operations

Name:	<i>Ella Zarandi</i>	Student ID:	<i>222064699</i>
Company Name:	<i>Redback Operations</i>	Target grade:	<i>HD</i>
Role title or area:	<i>Company Leader</i>		

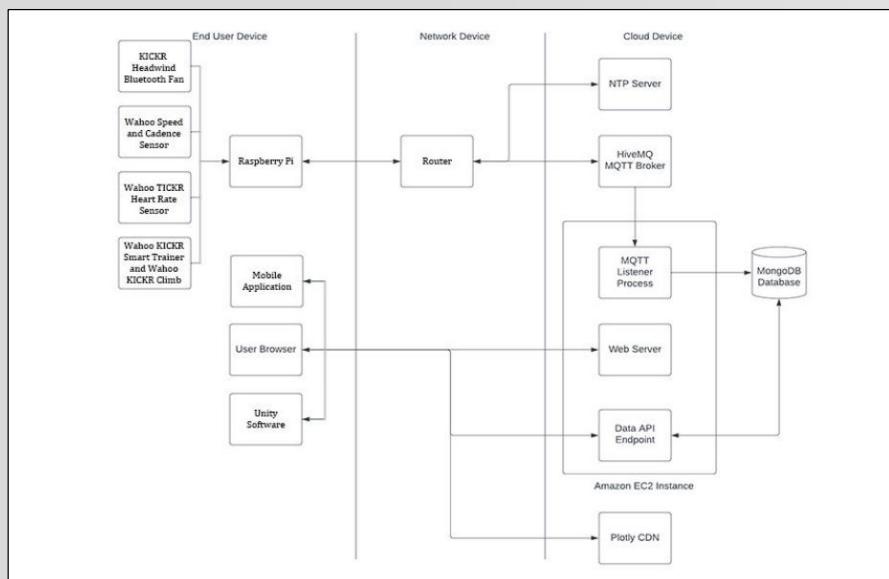


Company Mission

Redback is about gamifying exercise, to help people to be more active or train better.

The bikes connected to the mobile app and one branch VR applications via MQTT to produce system where people can do a workout or experience riding through the VR game environments .

The Data Origin and Data Pipeline in Redback Company:



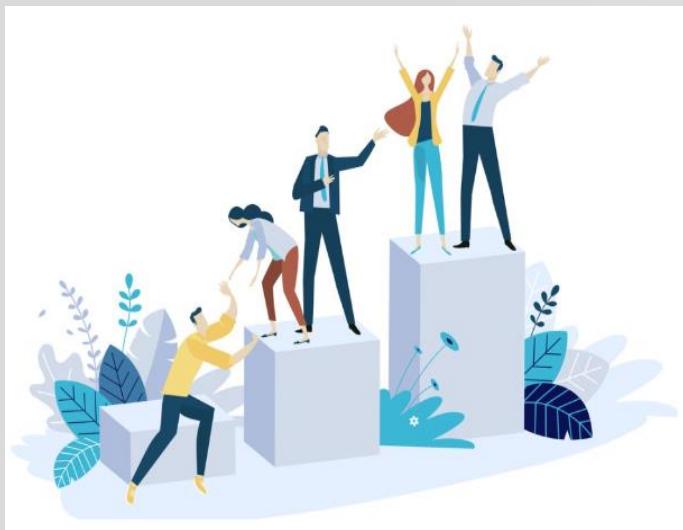
At Redback company we utilize "Contact Management System" (CMS).

There is a Rasberry Pi in place which gets the data through the Bluetooth from bike's sensors (Whooo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python and java to get data from riders and sending it off to the mobile app to get used.

The protocol used for this data transport mechanism used by drivers is MQTT.

The impact of leadership role, on the overall company performance



I believe as the company leader I demonstrated an effective leadership skills to the company to create a positive work environment, where everyone felt supported and motivated.

At all the stage I made sure that I provided clear direction and guidance to members to increase efficiency and productivity across the company.

I performed the necessary skills and knowledge to make decisions and solve problems effectively.

leadership achievements

*Here is a List of my leadership
achievements, through working at
the Redback company by end of
week five*



Conducted an effective on-boarding process

- **Prepared and Presented the recruitment presentation to provide juniors information about each teams, projects and the tech stacks, to be able to pick the right teams/projects to join,**
- **collecting information from the students to be able to position them within the company based on their skills and capabilities**
- **Run a company wide meeting and Organised the teams and stablished the leadership**
- **Set up access for members to their required tools and platforms**
- **Made sure all students were completely settled by end of week three and have their roles and tasks assigned**
- **Scoped the projects and sprint planning to set timeframes and goals**



Established the company Objectives and Project Report

- **Planned out projects and objectives for the company**
- **Created the projects documentation (Project overview, goals and objectives)**
- **Prepared the presentation's slides and running the presentations**

Keeping track of the progress

- **Scoped the projects and sprint planning to set goals timeframes**
- **Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines**
- **Monitored and evaluated the project progress across the company, address potential issues and made sure the deadlines are met**
- **Merged two teams to ensure consistency in work.**
- **Made changes in two team's structure, in order to address the issues they faced to, through their participation and speed up the process of the project's progress in their team**



Promoted communication across the company

-Acted as the point of contact for all participants

- Organized and run the meetings and events, created agendas and recorded the decisions.

- Providing 1:1 support to the leaders and team members, to be sure everyone is on track

-Keep track of all teams progress through our meeting and chat channels to establish team's work flow report, to pass it to the directors in our weekly meetings

- Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.



Self-management

As self-management is an important [leadership quality](#), so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as bellow:

- Evaluating my technical and leadership knowledge and skills and put a lot of effort into researches and up-skilling
- Performing a remarkable planning and organizational skills

- Time management
- Working independently and seeked for support and advice when required
- Outline project goals, based on the status of the projects and the member's capabilities
- Stress management
- Creating to-do list and strict deadlines for team members and myself
- Evaluating self- progress toward the goals
- Used the provided feedback to improve my progress
- Problem solving and Decision making
- Monitoring and evaluating the company progress



Promoted Tech Literacy at the company

To Promote Tech Literacy in the Redback company, and to support the leaders with their project planning process, I got myself familiar and up skilled with all the tools and coding languages utilized across the company.

Also I conducted a deep research to review and evaluate the status of the current company's projects, and came up with wide range of new ideas and projects for different teams, to develop and implement new features to our company's products.

Below are the resources that I had access to:

- *Studied through the handover document,*
- *Conducted meetings with the previous company leader,*
- *Learned through the GitHub*
- *Went through resources accessible in the Chat channels*
- *Referred to the last Trimester Trello boards*
- *Researche*



Identified the existing project's issues and Suggested the possible solutions



To find out about IOT projects , the scripts were tested and the Raspberry Pi and other hardware were tried out ,

The issues/bugs were defined and listed and assigned to the IOT members to get fixed,

***- The KICKR would't start, after running the script,
This bug is fixed,
Defined the bug***

Tested/checked out the CMS to be sure the values>0 is also transported

- Develop the FTP and workout features locally through the PI, without needing the APP running.

- Remote access to Rasberry Pi

- Redesigned and modified some projects' plans to make them achievable



Access to Data

- Get the web-design team, to develop an API to present the data stored in CMS in our website(this project is currently on pause, as we decided to try out the second option)
- Create a FIT file, to extract the FIT files from wahoo directly (Mark is currently working on that and he is about to complete it)

The Fan would keep publishing data,(even when it is off, still it would publish 0s,

Suggested the solution by modifying the project to also be able to control the fan's operation using IOT's features, for the times that we don't have access to the VR and App's products.

Advised to conduct some researches about how we could use kickr's data values to control/adjust the Fan's operation, so When the speed is 0, stop sending data to reduce the cost of GCP, so that the fan output is assimilated with the 'speed of the bike', so we want to have the KICKR speed to be fed into the FAN python script, such that the Wahoo fan speed increases/decreases as the KICKR speed increases.

Also we are working on FTP and workout projects just in their IOT perspective

Came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features



VR Team

Suggested to VR team to employ further sensor data in their product,

There are four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR,

WEB-Design

To develop an API to present the data stored in CMS in our website(this project is currently on pause, as we decided to try out the second option)

Also improve the consistency and responsiveness of the website

Dev/Ops

To automate the code workflow by developing the CI/CD pipeline

Participation in Data/AI projects **Feedback Analysis Models Project**



This project aims to train and prepare a "feedback analysis model to be used at the time that we would have the "feedback" feature for any of our products.

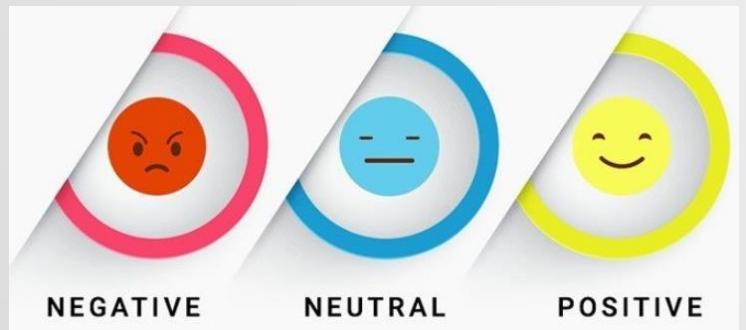
As currently we don't have a "Feedback" feature in our products, so I will be using an "Amazon food reviews and rating" dataset in csv format (which are text reviews and rating the food out of five stars)

I Will be using the following techniques:

- Vader Model which is a NLTK (python's natural language toolkit) module that provides sentiment scores based on the words used
- Roberta model which is a pre-trained transformer model
- Will explore using some huggingface pipelines for making analysis quick and easy
- Will conduct analysis and evaluation of the models' performance

Participation in Data/AI projects Feedback Analysis Models Project

VADER(Valence Aware Dictionary for Sentiment Reasoning) is an NLTK module that provides sentiment scores based on the words used.



VADER has the advantage of assessing the sentiment of any given text without the need for previous training as we might have to for Machine Learning models.

The result generated by VADER is a dictionary of 4 keys neg, neu, pos and compound: meaning negative, neutral, and positive respectively.

The Vader accuracy is 65%

Corporate Reporting Project



The Corporate Reporting project aims to create the static reports mentioned below, using SQL queries on the underlying tables.

- *Weekly summary reports*
- *Ranking analysis reports*
- *Workout summary reports*

There will be views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

Corporate Reporting Project



What is done:

As currently the BigQuary is not sorted out yet, so I just could run some researches as below:

- Researched on Strava schema,
- Consultation platform features
- What data we are collecting/needed to be collected
- Completed surveys/Collecting Feedback

Also I had a meeting with Sindhuja Manduru and asked her to conduct a research about the current collected data fields which we are going to use to generate the reports

Talking with mark, he mentioned the BigQuery will be ready by week6, for us to start working on our project.



Thank you

12 Company Progress Report

Provide an overview of the company progress to date, with details on the contributions of the team members

Date	Author	Comment
2023/04/23 22:18	Elaheh Karimi Zarandi	Ready to Mark
2023/05/25 10:30	Kevin Lee	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Company Progress Report

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi

Tutor:

Kevin LEE

Group Members:

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mengqianh	Qianhui	MENG	
gomesan	Anno	GOMES	
stitusmenacherr	Sam	TITUS MENACHERRY	
cdang	Cao Binhh	DANG	
majorti	Tim	MAJOR	
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mauryaa	Avinash	MAURYA	
leeyuns	Yunseong	LEE	
fengj	Jiahao	FENG	

April 23, 2023



Redback Operations - Company Progress Report for 2023 T1

Executive Summary

Redback Operations intends to gamify exercise by producing cutting edge connected fitness devices to improve exercise quality and training effectiveness.

This trimester focuses are on improving the performance of the projects, by adding/developing more features. Such as implementing (FTP) to the Smart bike project in order to provide more personal workouts for users. VR team will be adding more features to game and also we will be working on improving the marketplace to provide additional incentive for exercising. We will continue improving visual consistency of the website, and securely deploying related services.

Table of Contents

Redback Operations - Company Progress Report for 2023 T1	1
Executive Summary.....	1
Leadership Team.....	4
Teams.....	Error! Bookmark not defined.
Ash Fricker.....	Error! Bookmark not defined.
Trimester Goals and Objectives	6
Company Structure and Projects Overview.....	7
IoT and Embedded Systems	8
Overview, Goals, and Objectives	8
Project 1 : Smart Bike Project	8
Project 2: Project Sun Cycle	19
Project Members	20
Mobile Application Team.....	21
Project 3: Mobile Application	21
Dev/ops Team	24
Project4 : Git App Repository Google Cloud Deployment	24
Web Development and Design	28
Overview, Goals, and Objectives	28
Project 5 - Mobile application Fixes and Additions.....	29
Project 6 - Website Design Project	30
Project 7 : Web Development Frontend	32
Cyber Team	33
Overview, Goals, and Objectives	33
Project 8: Implementation of a SIEM System	35
Project 9-Factor Authentication (2FA) Continuation	37
Project 10- Implement Vulnerability Management Process.....	39
Data/AI team.....	41
Project 11: FIT File Handling and Data Pipeline	41
Project 12: Corporate Reporting.....	Error! Bookmark not defined.
Project 13: The Cyclist/User Categorisation Project.....	45
Project 14: Sentiment analysis (language processing) and Community standards - User/Community comments.....	46
Project 15: User Ranking - Engagement.....	49
Project 16: Performance Ranking (User)	51
Project 17: Workout Categorisation	53

Project 18: Data Warehouse	54
Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics (Marketing and UX)	56
Project 20: Posture Analysis.....	58

Leadership Team

Acting Director: *Kevin lee*

Company Leader: *Ella Zarandi and Avinash Maurya*

Leadership Team:

Team	Leads
IOT	<i>Ella Zarandi</i>
VR	<i>Hilal Irshad</i>
Mobile	<i>The Tung Truong</i>
DevOps	<i>Team Manager: Avinash Maurya</i> <i>Tech Lead: Adhish Anand</i> <i>Sub Lead: Arjodh Singh</i>
Data/AI	<i>Mark Tolley - Ella Zarandi</i>
Web/Design	<i>Main Lead: Avinash Maurya</i> <i>Sub Team Lead: Brian Dang and Yiannis Doulgerakis</i>
Cyber	<i>Team Manager: Avinash Maurya</i> <i>Sub Team Lead: Caitlin Parker and Nasim Emadi</i>

Team Members:

IOT	Data/AI	Mobile
<i>Ella Zarandi</i>	<i>Mark Tolley</i>	<i>Tung Truong The</i>
<i>William Djojodiredjo</i>	<i>Ella Zarandi</i>	<i>Seth Tan</i>
<i>Jarrod Yong</i>	<i>Prastut</i>	<i>Manusha Umayanga</i>
<i>Ethan Benjamin</i>	<i>Sindhuja Manduru</i>	<i>Raveen Yashod</i>
<i>Thomas Morgan</i>	<i>Tianqi Liang</i>	<i>Pengyu Xiao</i>
<i>Momin Khalid Butt</i>	<i>Saeed Alnaqeeb</i>	<i>Web/Design</i>
<i>Ahmad Riaz</i>	<i>Miriam Llauce Cotrina</i>	<i>Brian Dang</i>
<i>Haris Sajjad</i>	<i>Tejas Varun Baskar</i>	<i>Evan Mitropoulos</i>
<i>VR</i>	<i>Feature Lead</i>	<i>Nicolas Tomas</i>
<i>Hilal Irshad</i>	<i>Prastut Sapkota</i>	<i>Nicholas James</i>
<i>Jarrod Yong</i>	<i>Kunal Tripathi</i>	<i>Harsh Patel</i>
<i>Steven Markris</i>	<i>Samuel Borough Kamau</i>	<i>Robert Bajan</i>
<i>Daniel Isla</i>	<i>Cyber</i>	<i>Enock Nyaundi</i>
<i>Jiahao Feng</i>	<i>Adam Bainey</i>	<i>Hokky Kurnia Gondo Kusumo</i>
	<i>Carla Estella</i>	<i>Qianhui Meng Meng</i>
<i>Devops</i>	<i>Caitlin Parker</i>	<i>Jack Cousens</i>
<i>Arjodh Singh</i>	<i>Stephen Tobechukwu</i>	<i>Yesitha Liyanage</i>
<i>Astifo Paul</i>	<i>Tahlea Grant</i>	<i>Avinash Maurya</i>
<i>Adhish Anand</i>	<i>Jikuan Liu</i>	<i>Han XIA</i>
<i>Steve Lee</i>	<i>Ash Fricker</i>	<i>Anno Gomez</i>
<i>Sam Titus Menacheery</i>	<i>Melvin Manoj</i>	<i>Mohit Jurani</i>
	<i>SANJAY MEDIKONDURU</i>	<i>Yiannis Doulgerakis</i>
	<i>Nasim Emadi</i>	
	<i>Harshana Thilanga</i>	

Trimester Goals and Objectives

Planned features are:

- *The Cyber team aims to develop necessary security measures to protect critical systems, also they will implement incident monitoring and firewalls to prevent compromise.*
- *The Dev/Ops team aim is to automate the code workflow by developing the CI/CD pipeline and gain in-depth understanding of various tools and technologies used in the process*
- *The IOT and Embedded Systems team will be working on implementing a system to measure functional threshold power (FTP) in order to provide more personal workouts for users.*
- *The Mobile team will be focusing on app responsiveness and Implementing authentication and verification for the Login from both backend and frontend side, also the remaining pages in the mobile application will be implemented*
- *VR team will continue implementing and developing the Sun Cycle project, The marketplace will be completed for the website so rewards from exercise can be redeemed*
- *The Web-Design team will improve the consistency and responsiveness of the website and develop the marketplace.*

Company Structure and Projects Overview

IOT	<i>Project 1: Smart Bike Project</i>
VR	<i>Project 2: Sun Cycle Project</i>
Mobile	<i>Project 3: Mobile Application</i>
DevOps	<i>Project 4: Git App Repository Google Cloud Deployment</i>
Web/Design	<i>Project 5 : Mobile application Fixes and Additions</i> <i>Project 6 : Website Design Project</i> <i>Project 7: Web Development Frontend</i>
Cyber	<i>Project 8: Implementation of a SIEM System</i> <i>Project 9: Factor Authentication (2FA) Continuation and Securing the CICD Pipelines</i> <i>Project 10: Implement Vulnerability Management Process</i>
Data/AI	<i>Project 11: FIT File Handling and Data Pipeline</i> <i>Project 12: Corporate Reporting</i> <i>Project 13: The Cyclist/User Categorisation Project</i> <i>Project14: Sentiment analysis (language processing)</i> <i>Project 15: User Ranking - Engagement</i> <i>Project 16: Performance Ranking (User)</i> <i>Project 17: Workout Categorisation</i> <i>Project 18: Data Warehouse</i> <i>Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics</i> <i>Project 20: Posture Analysis</i>

IoT and Embedded Systems

Overview, Goals, and Objectives

The IoT and Embedded Systems team will be predominantly working on the Smart Bike Project.

This trimester main focus of the IoT and Embedded Systems team will be to continue the development of the Smart Bike Project. As the majority of the Smart Bike's sensors and other hardware are already installed, the team will focus namely on:

- *Implement system to measure functional threshold power (FTP)*
- *Improving the quality of data that is transmitted from the bike*
- *Fixing known bugs with the integration into other teams*
- *Fixing known hardware issues with the bike and its sensors*
- *Furthering the integration with the other projects of Redback Operations*
- *Finish Rigging the NPC model and manipulating its key points based on the pose*

Project 1 : Smart Bike Project

Overview, Goals, and Objectives

The Smart Bike project developed an IoT enabled indoor exercise bike which takes the sensor data and delivers it to the cloud, where it can be used by the mobile application for exercise, or to deliver an immersive VR experience in Project Sun Cycle.

Given Redback Operations' focus on building "cutting edge technologies for connected health, fitness and sport to enable smart, safe exercise", the Smart Bike forms an integral part of the company's mission. As such, it is extremely important for the IoT team to continue with the development of the Smart Bike to allow the other teams to continue with their development and integration of it.

The IoT and Embedded Systems team will be working on implementing a system to measure functional threshold power (FTP) in order to provide more personal workouts for users. This will result in users being able to get the most out of the smart bike by training to their maximum sustainable workload.

Deliverable: Implement FTP system

Description: To measure functional threshold power (FTP) in order to provide more personal workouts for users. This will result in users being able to get the most out of the smart bike by training to their maximum sustainable workload.

Key Progress:

A research conducted on what a typical FTP measurement workout would contain, this was needed to understand the requirements in measuring FTP (Functional Threshold Power).

The Trello board updated with adding description in the ticket for others to understand the use case and reasoning for a user to want an FTP measurement.

FTP workout contains:

- 20 Minute non-stop ride at riders maximum push capacity
- Measure power in watts per second
- Average of every measurement per second * 0.95 == FTP score
- Use the score in further workouts that allow riders to aim in increasing their FTP.

Initial implementation of this feature began as a local testing of the feature, using Keyboard input for 'power', the purpose of this was test to feasibility.

The pull request for this implementation can be found here with reasoning:

<https://github.com/redbackoperations/iot/pull/60>

Repo location: (Remote Upstream):

https://github.com/redbackoperations/iot/blob/main/Drivers/FTP/ftp_test.py

The next implementation is using the MQTT power value from the KICKR to measure a riders FTP, meaning that we can start to introduce legitimate data from the smart bike to measure and output FTP scores for users. This involved piggybacking previous MQTT client implementations from other sensor drivers such as its subscriber programs etc. This has not been fully tested in the laboratory over a full 20 minute workout but will be finalised in week 7. Pull Request can be found here: <https://github.com/redbackoperations/iot/pull/63>

Repo location (Local Implementation not yet merged):

https://github.com/Thumbness/iot_Redback/blob/main/Drivers/FTP/intial_ftp_workout.py

Trello board link

<https://trello.com/b/ppGeEiQf/iot-and-embedded-systems>

Project Members: Thomas Morgan

Deliverable: KICKR won't start/ stops publishing bug

It was an issue such that the incline/resistance control scripts that handled the initialisation of the KICKR connection to the raspberry pi was not working, this had been an issue for quite a while and became urgent to complete as MQTT data being sent to the CMS website required by other teams was necessary for completing tasks,

Key Progress: Fixed on the 11/04/2023

Several members worked several days in the lab of troubleshooting, testing and finally implementing a fix that has been documented in the current Trello board ticket, as below

- Seemed that the kickr device mac addresses needed updating
- Ran the Drivers/lib/ble_devices_scan.py script to scan for any BLE devices near rpi.
- Got mac address that aligned with wahoo kickr alias (prefix alias dependant on the kickr model)
- In raspberry pi, cd to home/pi
- Ran 'ls -la' to see hidden files
- Ran 'nano .env' to open hidden environment file in command line nano text editor (good luck)
- Navigated to and update KICKR_MAC_ADDRESS value to value found from running ble_devices_scan.py.
- Saved and exit
- Prayed to the heavens (Most important) ☺

Link To Trello: <https://trello.com/c/GsZhExZl/89-kickr-wont-start-stops-publishing-bug>

Now when running the script that starts the kickr/incline, it connects and successfully publishes speed/cadence/power/resistance/incline data to the CMS sit via MQTT.

Updates to the GitHub troubleshooting tab will be added that will contain step solutions if the same issue occurs for future team members as it may seem likely that over a period of time MAC address tables may be refreshed

Team Members:

Ella Zarandi: Identified the issues, sprite planning, assigned tasks and deadlines

Ella Zazrandi: Tested/checked out the CMS to be sure the values>0 is also transported

William Djojodiregio ,Jarrod Tong, Thomas Morgan: troubleshooting, testing and finally implemented a fix and documented to the Trello board

Deliverables: Setup remote access to the Raspberry Pi

Description: Some of our team currently working as a cloud student so the setting up the remote access to Raspberry Pi was vital,

Key Process:

Completed by Ella Zarandi

Conducted research and following solution was found and passed to IOT team, to be implemented:

To connect remotely, SSH and VNC must be activated on Raspberry Pi. Click on the main menu and choose Preferences > Raspberry Pi Configuration. Choose the Interfaces tab and set both SSH and VNC to Enabled. The VNC icon appears in the menu bar

- *Conducted research on application we could use for our remote access and shared the result with IOT team (specifically William) to use the ada.deakin.edu.au link to search up about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling students to use select Deakin software from anywhere.*

Completed by William Djojodiredio

Discovered that Deakin has a VPN using Cisco AnyConnect that allows us to access Deakin's services. Utilizing this application, we can now access Raspberry Pi remotely from anywhere in the world.

Trello Ticket: <https://trello.com/c/a7n9jKvI/99-research-on-application-to-setup-remote-access-forraspberry-p>

Below is the instruction, which documented by William Djojodiredio

To access the Raspberry Pi remotely, we need to have an internet access and Deakin VPN. Our internet access goes through Deakin VPN which make us a guess of Deakin Wi-Fi even though we are not connected to Deakin Wi-Fi. Below is the instruction to access Raspberry Pi remotely.

Steps:

1. *First thing first, we need to download the Cisco AnyConnect (Deakin VPN) from the link below.*

<https://software.deakin.edu.au/2019/04/16/cisco-anyconnect/>

Sofware Home - Apps and Desktops Anywhere Software Catalogue Mobile Apps By Audience By Platform DEAKIN UNIVERSITY

- Connect using Cisco AnyConnect for Android
- Connect using Cisco AnyConnect for Linux

Download Cisco AnyConnect for Windows, Mac and Linux

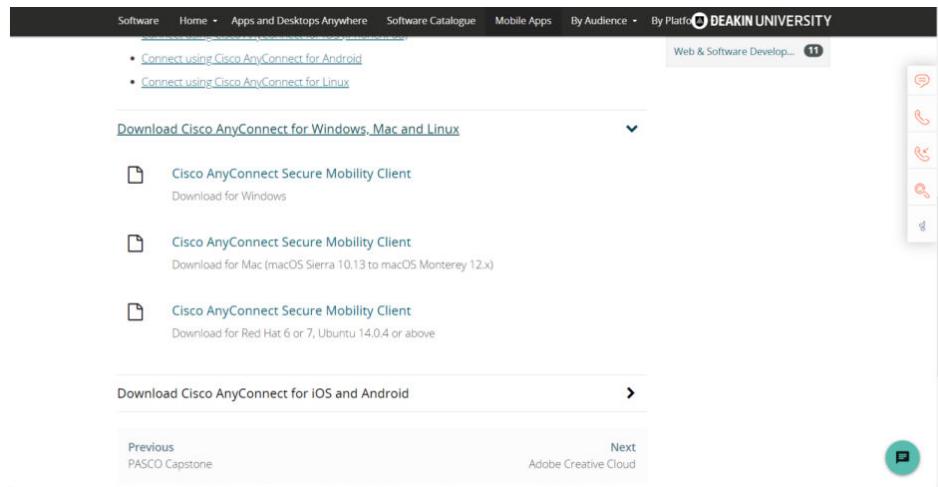
Cisco AnyConnect Secure Mobility Client
Download for Windows

Cisco AnyConnect Secure Mobility Client
Download for Mac (macOS Sierra 10.13 to macOS Monterey 12.x)

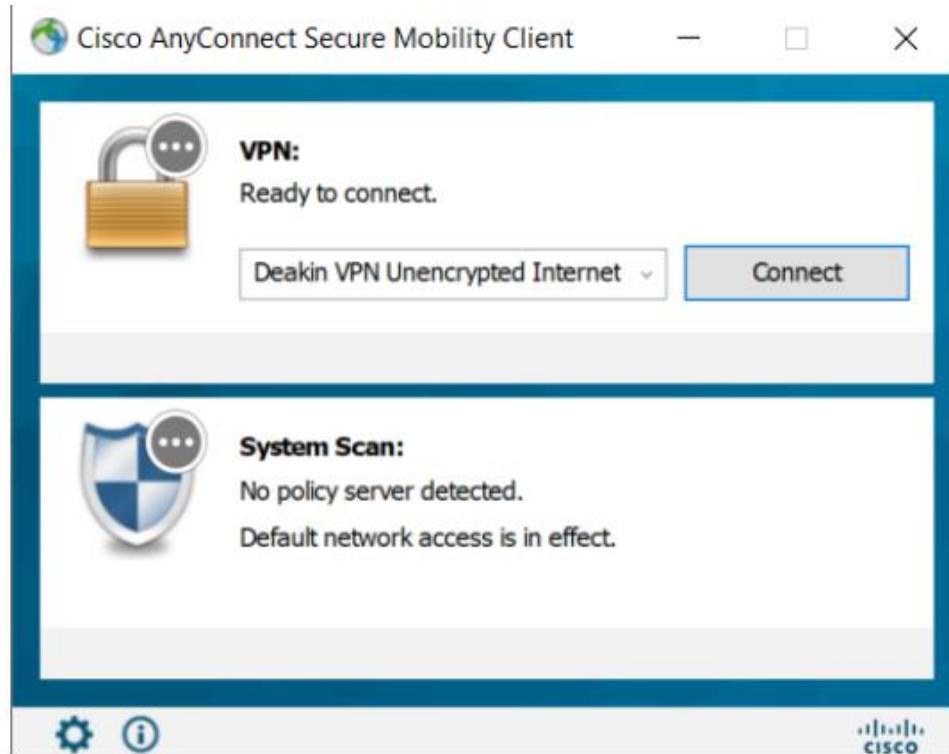
Cisco AnyConnect Secure Mobility Client
Download for Red Hat 6 or 7, Ubuntu 14.0.4 or above

Download Cisco AnyConnect for iOS and Android

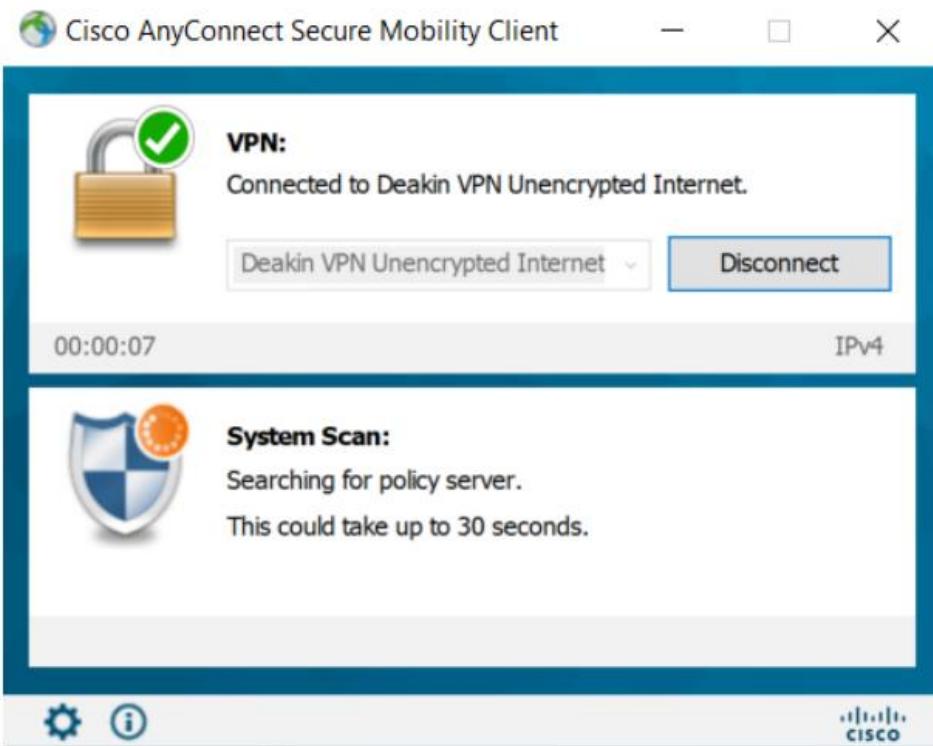
Previous PASCO Capstone Next Adobe Creative Cloud



2. Make sure that you download link for your Operating System.



3. Open Cisco AnyConnect and press "connect". Make sure you have your Deakin's credentials ready because it will redirect you to Deakin login page



4. The interface should show like this after you successfully connect to Deakin VPN

5. Open terminal/command line in your computer

A screenshot of a Windows PowerShell window. The title bar says "Windows PowerShell". The content shows the PowerShell prompt "PS C:\Users\willi>" followed by the command "ssh pi@10.150.186.55". A password prompt "pi@10.150.186.55's password:" is displayed below the command line.

6. Type "ssh pi@10.150.186.55" in your terminal and it will prompt you a password.

A screenshot of a Linux terminal window. The title bar says "pi@bike000001: ~". The content shows the user running "ssh pi@10.150.186.55" and entering the password. It then displays the Linux system information and a message about Debian software being free. Finally, the user runs "ls" in the "/iot" directory, showing files like "start_all.sh", "test_incline.sh", "Archive", "Database", "Drivers", "MQTT", "README.md", "Research", "scripts", "sensors-backend", "sensors-cms-frontend", and "Unity".

7. Enter "capstone374" as the password and you have now connected to Raspberry Pi through SSH.

Deliverable: Heart rate stops publishing bug

Description: Heart rate seems to be published for a few seconds (and received by the subscribers), and after a few seconds it continues to report it is successfully published but nothing is received.

Team Members:

Momin Butt , Will be starting from week 7

Deliverable: To develop an API to present the data stored in CMS in our website

Description: Allow the Front end website to publish a file with all the data from the sensors

Key Progress:

- Conducted a research on what the front-end page consisted of to find a solution about implementing
- Worked towards progress and coded a potential script to export the data from the device itself that it gets whilst the sensors are on (See below code)

The screenshot shows a code editor window with a dark theme. The title bar reads "Implement ability to export CMSM". The menu bar includes "File", "Edit", and "View". The main area contains Python code for an MQTT client. The code imports `paho.mqtt.client` and `csv`. It defines MQTT broker details with `broker_address` and `topic` variables. It also specifies CSV file details with `csv_filename` and `csv_header` lists. A callback function `on_message` is defined to handle MQTT messages, decoding the payload and splitting it into timestamp, device ID, and data value. The code then writes this data to a CSV file using `csv.writer`. Finally, it sets up the MQTT client, connects to the broker, subscribes to the topic, sets the message callback, and starts the loop forever.

```
import paho.mqtt.client as mqtt
import csv

# MQTT broker details
broker_address = "Fill in here"
topic = "CMS/MQTT/DEVICE_DATA"

# CSV file details
csv_filename = "data.csv"
csv_header = ["timestamp", "device_id", "data_value"]

# Callback function to handle MQTT messages
def on_message(client, userdata, message):
    # Decode the message payload
    data = message.payload.decode()

    # Split the data into timestamp, device ID, and data value
    timestamp, device_id, data_value = data.split(",")

    # Write the data to the CSV file
    with open(csv_filename, "a", newline="") as csv_file:
        writer = csv.writer(csv_file)
        writer.writerow([timestamp, device_id, data_value])

# Set up the MQTT client and connect to the broker
client = mqtt.Client()
client.connect(broker_address)

# Subscribe to the MQTT topic
client.subscribe(topic)

# Set the message callback function
client.on_message = on_message

# Start the MQTT client loop
client.loop_forever()
```

This project has been paused, as now Data/AI is working on that. It may be investigated further if it is needed to implement the export feature though.

Team member:

Jarrod Yong

Deliverable: Scripts to start processes on RPi

Description: Developing a 'start_all' script project

Currently to get the bike start working, we are required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needs to be executed individually,

The aim of this project is developing a single .sh script that able us to start all the .sh, so as soon as Pi is plugged in, we have it ready to publish the data to the cloud or receive the commands to transfer it to the sensors.

Key Progress:

Completed by Ella Zarandi

- Clarified the project to the members
- Following up with the progress and providing feedback and solution when needed.
EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the "all-start" scrip project and work on the fix separately.
- Updating the Trello board

Completed by William

Previously, if we run this script, we couldn't stop the script from running. William updated the script and now we should now be able to stop it.

Ethan Benjamin

Will be starting to work towards this project from week7

Deliverable: Workout to process strength etc with more flexibility

Description: In order to target improving strength vs endurance, cyclists may wish to train at various percentages of their maximum sustainable output. Measuring VO2 Max is difficult but Functional Threshold Power is a possible surrogate.

Key Progress:

Completed by Ella Zarandi

Defined the problem and provided solutions as below:

Problem: *The workouts are getting start, stop and picked using the app,*

The app is now down and we are not able to run and test the workouts,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Suggested Solution :

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-We work on implementing the workouts just from an IOT perspective,

Currently in IOT we are going with the second option.

I have changed two of our members' project and assigned them with the following tasks:

-Search up how to run and start the first workout without using the app,

-Implement and develop Strength and Endurance workouts in their IOT side

Ahmad Riaz, Momin Khalid Butt are assigned to work on this project

Deliverable : Deliverable: Rate limit sending data from Pi (to avoid GCP fees)

Description: The Fan would keep publishing data,(even when it is off, still it would publish 0s,

Key progress:

Completed by Ella Zarandi

Suggested the solution by modifying the project to also be able to control the fan's operation using IOT's product, for the times that we don't have access to the VR and App's products.

Currently the fan is dependent on the Unity game engine connections and also the heart-rate monitor, so we are not running the fan script at all, unless the VR game or Mobile application is running, as they are solely responsible for changing those values.

As now the App is not working, so it has been advised as a solution to modify this project to Integrate MQTT bike KICKR speed into actuating FAN speed mode.

So some research conducted about how we could use kickr's data values to control/adjust the Fan's operation, so When the speed is 0, stop sending data to reduce the cost of GCP, also I believe It makes more sense that the fan output is assimilated with the 'speed of the bike', so we want to have the KICKR speed MQTT output to be fed into the FAN python script, such that the Wahoo fan speed increases/decreases as the KICKR speed increases.

Ethan Benjamin, Thomas Morgan

will start working on this project from week 7

IOT Team members

Name	Level	Role
ELLA KARIMI ZARANDI	Senior	Team Leader
WILLIAM DJOJODIREDO	Junior	Team Member
JARROD YONG	Junior	Team Member
ETHAN BENJAMIN	Junior	Team Member
AHMAD RIAZ	Junior	Team Member
THOMAS MORGAN	Junior	Team Member
MOMIN KHALID BUTT	Junior	Team Member
AHMAD RIAZ	Junior	Team Member

Project 2: Project Sun Cycle

A virtual reality game called *Project Sun Cycle* is played with an exercise cycle. The player can explore and travel around the post-apocalyptic tribal environment in this single-player experience, fulfilling quests like delivering supplies between the various tribes on their hover skater-bike. The goal of this project is to develop an enjoyable and engaging experience that will motivate people to exercise more by allowing them to play a video game at the same time.

Overview, Goals, and Objectives

By converting little virtual steps into bigger actual steps, Redback Operations aims to provide you with a smarter, fitter, and better environment. No of the weather, our organisation wants to put facilities in your hands. a lot of traffic? You won't need to worry, though, as our Smart Bike Project will dramatically revolutionise your indoor cycling experience and also provide you access to the outside world through a usable mobile app and an entertaining VR experience. In the workout VR game *Project Sun Cycle*, players use specially designed exercise bicycles to travel across the post-apocalyptic game world while delivering deliveries on a hover bike.

Aims for Trimester

In general, the goal of working on a VR project is to take advantage of the technology's unique characteristics to give users a more interesting, immersive, and useful experience. Continue the preceding project's incomplete portion's completion. Including additional components in the game. We'll release the manual documentation and UI design that how overall game will look like.

- *Improve User Experience:* Virtual reality (VR) offers a compelling, immersive experience that can greatly increase user engagement and project satisfaction. We will add more features where users can engage with the project more meaningfully by building a virtual environment.
- *Visualizing Design:* VR can assist architects, designers, and engineers in more realistically visualising their designs.
- *Work on different tools like Trello and Figma design.*
- *Learn more about Unity.*

Deliverables

1. *Add different option for choosing bikes for the users.*
2. *To make more challenging environment we will add obstacles.*
3. *Add timer to the game in which user will reach or deliver within the given time.*

4. Add bonus star through which player can increase their time while reaching to destination.
5. Create Speedometer to know how fast player is moving.
6. Creation of Game Design Document for the Cycling Against Friends/Ghosts feature to thoroughly document the specifics of the feature.
7. Finish off Figma designs for the Cycling Against Friends/Ghosts feature for the mobile application.
8. Create UML diagram.

Key Achievement

- Figma designs for the Cycling Against Friends feature for the mobile application - **Daniel Isla**
- Adjustment of the main camera from single person view to third person -**Hilal Irshad**
- Done with the countdown coding and the UI text on the game canvas – **Hilal Irshad**
- Created the GITHUB Repository -**Steven Markis**
- Successfully created one the bike model- **Steven Markis**
- Half of the game design is completed, and the remaining will be complete in coming weeks – **Nathan and Jiahao Feng**
- Fixed the bug within the unity and some bugs adjustment with the gameplay view- **Hilal Irshad and Steven Markis**

Project Members

Name	Role	Tasks
Hilal Irshad	Leader	Timer and obstacles for the environment and implement Speedometer in the game.
Jarrod Yong	Member	Create UML diagram for the project and the SRS doc.
Steven Markis	Member	Create objects like bikes and add features to environment and implement that object inside virtual game
Daniel Isla	Member	Figma designs for the game interface and mobile UI.
Jiahao Feng	Member	Create Game Design Document and complete SRS doc.

Mobile Application Team

Team Trello: <https://trello.com/b/cNxjN0iZ/mobile-app-development>

Project 3: Mobile Application

Overview, Goals, and Objectives

The Mobile App is one of the Redbacks products that the user can engage with. It is about developing an app that will comprise one of the possible experiences Redback customers use when they are exercising. The problem it aims to solve is providing customers with an accessible and portable solution that can be used to track their fitness. A mobile app can easily be downloaded and set up on exercise machines or for workouts when the user is on the move. The overall goal of the project is to provide a friendly and engaging user experience that will impact stakeholders by building a brand image for Redback giving it value while also strengthening customer loyalty. The main deliverable for the project will be an app with all the necessary pages so that there is a complete experience from when the app is opened, and a workout is completed.

Aims for Trimester

- *The main goal for this trimester is to finish the undone part from the last trimester:*
 - o *Continue to finish the pages from Figma (the FAQ page and the Contact Us page)*
 - o *Researching the way to make the app responsiveness to fit all screens.*
 - o *Integrating the workout selection on the home screen*
 - o *Fixing the current bugs from the roadmap at the workout screen and login screen*
 - o *Adding previous trimester screens to the correct order.*
 - o *Redesigning the current UI to the newest UI in Figma.*
 - o *Learning a new programming language – Flutter.*
- *Possible Implementation:*
 - o *Implementing authentication and verification for the Login from both backend and frontend side*

- *Implementing Marketplace features from the new Figma*
- *Adding comment for the function and file*
- *Save workout to Firebase.*

Deliverables

- *Focusing on finish the undone page from the Figma.*
- *Improving app performance due to the app is not responsive to fit all screens.*
- *Fixing the UI issues and Re-designing UI*
- *Improving backend performance*

Key Achievement

- *Fixing app responsive to fit all screens (Login screen and Workout screen) - **Seth Tan***
- *Refactoring code, improving code design and connecting some of the previous screens to the correct order - **Pengyu Xiao, Tung Truong***
- *Improving backend, connecting backend with the Firebase so the user can sign up account through options (normal registration or google account registration) - **Manusha Umayanga, Raveen Yashod***
- *Designing new screens (Setting screens) and updating new UI for previous screens (Login screens, Sidebar screen) - **Seth Tan, Manusha Umayanga, Raveen Yashod, Pengyu Xiao***
- *Fixing old bugs (signup bugs and bugs related to Flutter not being competitive to the new XCode version) - **Manusha Umayanga, Tung Truong***

Project Members

Name	Level	Tasks	Role
Tung Truong The	Senior	<i>Front-end Developer, improving app performance, managing member tasks and the mobile team works</i>	<i>Team Leader</i>

<i>Seth Tan</i>	<i>Junior</i>	<i>Front-end Developer, fixing current bugs, designing new screens, updating UI</i>	<i>Team Member</i>
<i>Manusha Umayanga</i>	<i>Senior</i>	<i>Back-end Developer, improving backend performance, updating UI, leading backend team</i>	<i>Team Member</i>
<i>Raveen Yashod</i>	<i>Senior</i>	<i>Back-end Developer, fixing current bugs, improving the backend, updating UI</i>	<i>Team Member</i>
<i>Pengyu Xiao</i>	<i>Senior</i>	<i>Front-end Developer, improving app performance, designing new screens, fixing current bugs</i>	<i>Team Member</i>

Dev/ops Team

Project 4: Git App Repository Google Cloud Deployment

Overview, Goals, and Objectives

The main objective of this project was the deployment of the project contents from GitHub into the Google cloud platform. To define more clearly, the culmination of all works from the Redback Operations Team was created into a GitHub repository ready for access by all its team members and by the public. However, the plethora of code-files need to be uploaded as a web application in an online platform. For this process, we are using Google Cloud Platform as our deployment structure. Moreover, the code-files are created to accommodate for “containerization” of the applications. Some great advantages of this are cost cutting and easy test and deployment cycles. So, our project focusses on deployment of these docker applications into the Google Cloud Platform. Which prepares the “containerised” for access to the internet.

Aims for Trimester

- *Our primary aim is to automate the code workflow by developing the CI/CD pipeline and gain in-depth understanding of various tools and technologies used in the process*
- *Secondly to create documentation that can act as step-by-step guide of creating CI/CD pipeline with Google cloud platform.*
- *Thirdly to provide handover documents highlighting about the deliverables accomplished and the deliverables that would move to next trimester*

Deliverables

- *Development of CI/CD pipeline in Google cloud*
- *Document highlighting step by step guide of creating CI/CD pipeline with Google cloud platform.*
- *Handover document that can act as reference for next trimester*

Progress

- *Deployed Jenkins server on GCP virtual machine instance and tested its working using a test job.*

- Created documentation to show how to setup a Jenkins server on GCP. Link: [How to Setup a Jenkins Server.docx](#)
- Updated the Trello board to include the new tasks. Trello Board link: <https://trello.com/b/SvbARmmY/devops>
- Working on creating the docker image of the flutter application.

Project Members

Name	Level	Task	Role
Arjodh Singh	Junior	<i>Install GKE, CICD tools, cloud resource. Create the pipeline and Script. Research for creating Jenkins Job / Script.</i>	Team Lead
Astifo Paul	Junior	<i>Install & set up the Logging & Monitoring & Tracing tools. Research for creating Jenkins Job / Script. Network & Security setting in GKE.</i>	Team Member
Adhish Anand	Junior	<i>Create the pipeline and Script. Network & Security setting in GKE. install & set up the Logging & Monitoring & Tracing tools.</i>	Team Member
Sam TitusMenacheery	Junior	<i>Create the pipeline and Script. Network & Security setting in GKE. install & set up the Logging & Monitoring & Tracing tools.</i>	Team Member
Steve Lee	Senior	<i>Create the pipeline and Script. Connect Source repository with CICD tool. Install GKE, CICD tools, cloud resource.</i>	Team Member

Key Achievements

Name	Level	Achievements	Role
Arjodh Singh	Junior	<ul style="list-style-type: none"> • Upskilled on DEVOPS stack and deployed Jenkins on VM on private and tested it for integration and deployment • Conducted regular meetings and updated all the documents related to project 	Team Lead
Astifo Paul	Junior	<ul style="list-style-type: none"> • Upskilling on Jenkins, research and testing done to deploy it on VM. Also, research of CICD pipelines, Kubernetes engine, etc to continue work in DevOps. • Organization and attendance of meetings to let all members know of the tasks/deadlines that are due. 	Team Member
Adhish Anand	Junior	<ul style="list-style-type: none"> • Deployed Jenkins server on GCP vm instance and created a documentation on the same. • Tested the working on Jenkins server using a sample job. 	Team Member
Sam TitusMenacheery	Junior	<ul style="list-style-type: none"> • Created a google cloud project. Created VM in google cloud for running Jenkins. • Installed Jenkins in VM. Configured Jenkins into VM external link. • Downloaded the Jenkins Plugins. Researching on building a Docker image of Git hub application from the git repository. and push the image into Google cloud Container Registry • Preparing for the next step by researching Kubernetes cluster technology to host the application 	Team Member
Steve Lee	Senior	<ul style="list-style-type: none"> • Tested the working on jenkins server using a sample job. • Set up the yaml file for installing the monitoring tool (grafana) on the linux server so that it can be applied immediately after installing kubernetes. • Pre-preparation for Kubernetes 	Team Member

		<i>installation completed.</i>	
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- ※ **Please be informed that the above tasks can be changed and added depending on the project.**

Web Development and Design

RedBack Trello:

<https://trello.com/invite/b/4ueSjolZ/ATTI2748fd3a90d1e94d2cf01ec6a6fb0de9FEDCCC0/design>

Team members trello:

<https://trello.com/invite/b/VaGG5QJV/ATTI5b3b328dfa977f2f700857c485a25d6544083928/design-team>

Overview, Goals, and Objectives

- *The web development and design team is currently focused on enhancing Redback Operations exist designs and implementing UI designs to code*
- *We focused on analyzing the existing Figma projects and reconstructing the project to enhance the scalability and maintainability.*
- *As the designers and engineers work closely together, we make sure our designs not only visually appealing but also feasible to implement within the project time frame and guarantee the outcome of the project come out as expected*

The team has been working simultaneously on different projects, with the major achievements listed in the below in the table, summarizing it for all the projects handled by the

Web

Dev

Team.

<i>Marketplace Development</i>	<i>Coded the frontend and have developed the foundation for the backend of the marketplace.</i>	<i>Avinash Maurya</i>
<i>Responsiveness of the website</i>	<i>Familiarised themselves with the current code, documented and added comments to each section of the code.</i> <i>Working on stabilizing and making the current website pages mobile / device friendly.</i>	<i>Avinash Maurya Yiannis Doulgerakis Anno Gomes Nicholas James Yeshitha Liyanage Mohit Jurani Evan Mitropoulos</i>
<i>UI/UX</i>	<i>Successfully worked on increasing the efficiency in the current designs and improving the similarities</i>	<i>Web: Brian Dang Enock Nyaundi Harsh Patel Qianhui Meng</i>

	<p><i>between all the designs and flow across different web pages and apps. Merged or removed redundant pages and improved the designing.</i></p> <p><i>Developed the marketplace UI/UX design.</i></p>	<p><i>Yeshitha Liyanage</i></p> <p><i>Mobile: Han Xia</i></p> <p><i>Hokky Kurnia</i></p> <p><i>Jack Cousens</i></p> <p><i>Nicolas Tomas</i></p> <p><i>Robert Bajan</i></p>
<i>Skill Up Tasks</i>	<p><i>Successfully completed series of skill up tasks to understand the fundamentals of website/mobile design and development.</i></p>	<p><i>Brian Dang</i></p> <p><i>Evan Mitropoulos</i></p> <p><i>Nicolas Tomas</i></p> <p><i>Harsh Patel</i></p> <p><i>Robert Bajan</i></p> <p><i>Hokky Kurnia Gondo</i></p> <p><i>Kusumo</i></p> <p><i>Qianhui Meng Meng</i></p> <p><i>Jack Cousens</i></p> <p><i>Yesitha Liyanage</i></p> <p><i>Avinash Maurya</i></p> <p><i>Han XIA</i></p> <p><i>Anno Gomez</i></p> <p><i>Mohit Jurani</i></p> <p><i>Yiannis Doulgerakis</i></p> <p><i>Nicholas James</i></p> <p><i>Enock Nyaundi</i></p>

Project 5 - Mobile application Fixes and Additions

Overview, Goals, and Objectives

The current version of the mobile design developed by the previous team, however, after analyzed and discussed with the team, we have identified many problem with the current project such as all of the components in the design are not created as reusable components which make the project inconsistent very hard to maintain and scale for future improvement. Our final goal for this term is to redesign the blueprint project and improve its aesthetics by making it more aesthetically appealing and user-friendly.

Our team recognised the importance of the project's scalability and maintainability, as well as design consistency. All aspects had to be considered in order to achieve a successful execution with efficient future development possibilities. The consistency component inside

the design should be maintained throughout every phase of its construction. Our commitment is to ensure that the outcome aligns with the goals of the whole project.

Aims for Trimester

Our key goal throughout this trimester is to finish the design and include new features before sending it to the other teams. For example, the front-end design team needed these designs to begin serious work on the actual product. Our goal is to complete the design to the highest potential standard, allowing other teams to use it efficiently.

Deliverables

Our Trimester Deliverables improve design , add new and reconstruct the project to enhance its scalability and maintainability.

The following things will be improve this trimester:

- + Marketplace design
- + Mobile App

Our long term objective for this project is to refine and finalize the design to a point where further work is only required for the addition of new features. Although the design is approaching this stage, some additional work is still necessary.

Project Members

- **Avinash Maurya** – Team Lead
- **Brian Dang** - Design Leader / UI Designer /UX researcher/ Developer
- **EVAN MITROPOULOS** - Design sub leader / UI Designer / UX researcher
- **Nicolas Tomas** - Design sub leader/ UI Designer / UX researcher
- **Dio Kyrou** - UI Designer /UX researcher
- **Harsh Patel** - UI Designer / UX researcher
- **Robert Bajan** - UI Designer / UX researcher
- **GERALD FERNANDO MINI FARFAN** - UI Designer / UX researcher
- **HOKKY KURNIA GONDO KUSUMO** - UI Designer / UX researcher
- **QIANHUI MENG MENG** - UI Designer / UX researcher
- **JACK COUSENS** - Designer / UI Designer / UX researcher
- **YESITHA LIYANAGE** - UI Designer/ Developer

Project 6 - Website Design Project

Overview, Goals, and Objectives

Our primary goal for this effort is to make significant changes and improvements to the website's design. The focus would be on making it more visually appealing while also ensuring that its expandability and maintainability are improved.

The strategy currently lacks critical components and has inconsistencies that make it difficult to manage.

The goal is to overcome the barriers by focusing on the venture's reconstruction. Our goal statement includes creating an approach that will be robust and successful in the long run, resulting in positive outcomes for Redback's .

The other primary goal will be to implement the design changes in the frontend development of the website by coding all the new and improved web designs. This goal will also include making the website more functional with working buttons and other where it needs.

Looking at the previous year's report, the website needs to go live which is another goal we aim to achieve from the backend side of things.

Once again, as many in the team are not very experienced with little knowledge when it comes to frontend and backend web development, this is going to raise many barriers to overcome. But by finding the right strategy and time management and team effort, all of these barriers can be bypassed.

Aims for Trimester

The objective of the current project is to revamp the website design to align with the company's image and maintain consistency with other projects. We aim to prioritize this task as it is crucial to ensure that the design language resonates with the company's branding.

Our end goal for this trimester is to achieve uniformity in design across all projects.

Deliverables

Our goal with this project is to create a design that will stand the test of time. This necessitates developing an appealing, changeable strategy that can be sustained for extended periods of time without necessitating extensive changes at future intervals. Finally, our primary goal is to build a structure that is unaffected by changes in its particular markets or technological breakthroughs.

During this trimester, our team has prioritized improving the design of our project and delegating completion duties to other groups. We recognise that success in this attempt will take more work than we have previously given; yet, we remain firm in our belief that dedicating ourselves to establishing an enduring and trustworthy design will result in significant benefits down the road. We are dedicated to designing designs that are not only visually appealing but also run at optimal efficiency while keeping to excellent quality standards.

Here is the list of frame will be improved this trimester:

- *Daily report*
- *Community*
- *How to Participate*
- *Signup*
- *Login and Signup landing*
- *Yoga*
- *Workout*
- *Project*
- *Product*
- *Contact-us*

Project Members

List the members and their roles – clearly identify the lead student(s).

- **Avinash Maurya** – Team Lead
- **Brian Dang** - Design Leader / UI Designer /UX researcher/ Developer
- **EVAN MITROPOULOS** - Design sub leader / UI Designer / UX researcher
- **Nicolas Tomas** - Design sub leader/ UI Designer / UX researcher
- **Dio Kyrou** - UI Designer /UX researcher
- **Harsh Patel** - UI Designer / UX researcher
- **Robert Bajan** - UI Designer / UX researcher
- **GERALD FERNANDO MINI FARFAN** - UI Designer / UX researcher
- **HOKKY KURNIA GONDO KUSUMO** - UI Designer / UX researcher
- **QIANHUI MENG MENG** - UI Designer / UX researcher
- **JACK COUSENS** - Designer / UI Designer / UX researcher
- **YESITHA LIYANAGE** - UI Designer/ Developer

Project 7: Web Development Frontend

Overview, Goals, and Objectives

Developing a web application allowing user to track their fitness data.

The goal of this project is implementing exist UI designs into reliable web application and getting the website live as well as making it more functional.

To implement designs changes where needed and improving the overall user friendliness and neatness of the website.

Objective is implement the rest of the UI design frames from last trimester.

Aims for Trimester

The aim for this trimester is to complete the remaining frames left from the previous team which include Product Devices, Exercise History, Your Daily Report with Exercise, Exercises, and User Dashboard, Contact Us and if possible get the website running live.

Deliverables

This trimester deliverable is:

- *Product Devices*
- *Exercise History*
- *Your Daily report with exercise*
- *Exercises*
- *User Dashboard*
- *Contact-Us*

Our long term objective for this project is continuing implementing new features and pages provided by the design team and constantly improving web application responsiveness.

Project Members

- ***Avinash Maurya*** – Team Lead
- ***Yiannis Doulgerakis*** - Developer
- ***Brian Dang*** - UI Designer /UX researcher/ Developer
- ***NICHOLAS STAVROPOULOS*** - Developer
- ***ANNO GOMES*** - Developer
- ***YESITHA LIYANAGE*** - UI Designer/ Developer

Cyber Team

Overview, Goals, and Objectives

The cyber team aims to implement necessary security measures to protect critical systems and all sorts of data involving RedBack activities from theft and damage. Establishing and maintaining user trust by developing a secure system is imperative for the company's long-term success. We are going to provision Security Incident & Event Management (SIEM) uses big data to receive firewall and security logs from cloud resources and does analysis to discover indications of compromise (IOC) and a platform that provides more visibility for incident tickets raised. The list below includes the key objectives of the cyber team in this trimester.

- *Create/implement Security Incident and Event Monitoring system*

- *Create/implement firewalls*
- *Utilise both incident monitoring and firewalls in a manner which prevents data compromise for users and the company.*
- *Create/implement 2FA*

Project 8: Implementation of a SIEM System

Overview, Goals, and Objectives

SIEM is fundamental and one of the essential 8 mandated cyber security requirements for companies in Australia. SIEM fundamentally consists of big data that stores logs and events which are analysed through playbook searches for correlations. Detection occurs with any indications that matches with a compromise which is then raised as a security incident to be actioned.

Upon completion of this project, IT resources provisioned on google cloud for Redback tenants, will be configured to feed their logs and events to SIEM.

Aims for Trimester

In this trimester the cyber security team would like to implement the following for the SIEM project.

- *The basic functionality for SIEM system which will be provisioned in google cloud.*
- *A big data storage environment where the log stores will get set up.*
- *Define the feeders and log ingestions.*
- *Implement and deploy a few workflows, playbooks and dashboards.*

Deliverables

- *A SIEM with basic functionality implemented into our google cloud environment*
- *Processes and documentation around the SIEM system*

Completed

Caitlin: Spun up a VM that allows access of Wazuh through Docker without installing on personal device. – Caitlin

Carla: Has installed and setup Wazuh Agent (cross platform end-point security agent)

Adam: Spun up a VM for OpenCTI and Docker and created templates for yaml and .env files. Connected with AbuseIPDB and AlienVault to pull threat feeds. -Adam

Stephen: Connect Wazuh to GCP

On Going

- *Connect OpenCTI with OpenSIEM*
- *Write up and centralise all documentation for SIEM project for handover.*
- *Connect and set up Wazuh dashboard*

Project Members

Member Name	Role	Task
Adam Bainey	Team Member	<i>Incident monitoring (research and implementation/strategy to place in GCP environment)</i>

<i>Carla Estella</i>	<i>Team Member</i>	<i>Incident Monitoring (Research and Implementation)</i>
<i>Caitlin Parker</i>	<i>Team Leader</i>	<i>Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)</i>
<i>Stephen Tobechukwu Uzoka</i>	<i>Team Member</i>	

Project 9-Factor Authentication (2FA) Continuation

Overview, Goals, and Objectives

The project aims to continue the previous trimester's 2-factor authentication implementation, with the motivation being secure and safe logins which ensure user authenticity and prevent malicious users gaining access to the company websites and databases. The overall goal is to work with previous works and ensure that a functional 2FA system is implemented at the website without any bugs or implications.

This positively impacts stakeholders as by implementing a 2FA system the attack space is reduced, and the likelihood of attack is minimised. Therefore, the cost of recovery to the company is diminished greatly, as well as the risk for negative publicity which may lead to distrust from clients.

Aims for Trimester

- *Locate deliverables from Trimester 3*
- *Assess the implementation of 2 Factor Authentication as it stands*
- *Enhance the existing infrastructure so that we have a fully functioning 2 Factor Authentication service at login*

Deliverables

- *Full project documentation*
- *Demonstration of successful login with 2FA*

Completed

Tahlea: Located the deliverables from Trimesters 3.

Jikuan: Created an Application Programming Interface allow external users to obtain QR. The QR can be used to acquire 6-digit code.

On Going

- *Cooperate with Front-end team to integrate the two projects (front end project and 2FA project). – Group as a whole*
- *Implementing a truly random generated secret key.*
- *Centralised documentation for all the 2FA project for handover.*
- *Develop a second Application Programming Interface for verification of users using a one-time password.*

Project Members

Member Name	Role	Task
Tahlea Grant	Team Member	<i>Find deliverables from trimester 3 and assess</i>
Jikuan Liu	Team Leader	<i>Assess the implementation of 2 Factor Authentication as it stands.</i>
ASH FRICKER	Team	<i>Research and Test 2FA, find improvements and enhance</i>

	<i>Member</i>	<i>the security.</i>
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Project 10- Implement Vulnerability Management Process

Overview, Goals, and Objectives

Vulnerability management is one of the essential 8 recommended by Australian government, and a key security control to track and monitor vulnerabilities of information technology assets. Vulnerability management system commonly, discover network connected devices and enumerates hard hardware, firmware/software of target devices and correlates with a database of known vulnerability/resolution to report vulnerabilities and track remediation assignments to service owner to resolve it (e.g. install a patch).

Aims for Trimester

- System requirement collection (**Completed – week2 by Nasim**)
- Vendor analysis and selection (**Completed - Week 5 by all members - Reported to ELT team**).
- Access to GCP and SCC module enablement (**completed by all members – week6**)
- SCC Asset discovery and reporting dashboard setup (*In Progres - Starting Week 6 by Harshana*)
- We need SCC to be enabled with required privileged roles that can collect reports from all resources.
- Presumably needs back-and-forth communications with the cloud tenant team to get that properly assigned.
-
- SCC finding report to SIEM (SCC and SIEM Integration) (*In Progres - Starting Week 6 by Nasim*)
- Discovered issues will be reported to (the security incident and event management) system SIEM, to appear as an incident and get actioned in SIEM workflow. SIEM is currently under deployment by our sibling team, and we just integrate our dashboard into their feed-in logs.
-
- Vulnerability scanner (static code scanner) deployment (*In Progres - Starting Week 6 by Sanjay*)
- An alternative vulnerability scanner needed to be used as the SCC-supported one isn't free. The aim of the deployment is to use an open-source static vulnerability scanner, that is free and can be used to scan source codes. The scanner also needs to support the coding language used by the development team. The plan for the deployment is to research different scanners to find the most reliable and effective one. Then run tests with normal and self-made malware codes to test the scanner. The last step for the deployment is to write a guide on how the scanner can be used.

Deliverables

The long-term deliverables for RedBack Operations would consists of:

- System requirement and scope definition.
- Vendor and product analysis and selection
- Project tenant initiation.
- Periodic Network Asset Discovery and publishing finding in a dashboard.
- Vulnerability code scanner for static code analysis.
- SCC and SIEM integration (Raising SIEM incident upon vulnerability finding)

The trimester deliverables for Redback Operations would consist of:

- *System requirement and scope definition.*

Completed at week 2 by Nasim Emadi. The “VM System Requirement. Docs” is uploaded into the project GitHub repo.

- *Vendor and product analysis and selection.*

This is completed by Week 5, collaboratively by all 3 team members each member did one specific vendor analysis in the first part and then collaboratively decided and document a report on which vendor is selected. Vendor documents and the final vendor evaluation report are uploaded into Project Repo under the “Vendor Selection” folder.

- *Project tenant initiation.*

This has been action completed by the GCP tenant cloud service owner which communications (access request form submission, etc.) is completed by Nasim Emadi in Week 5 and all 3 team members got to access the same week. (No Artefact is required).

- *Periodic Network Asset Discovery and publishing finding in a dashboard.*

Started in Week 6 by Hashana. It’s still in progress. Documents will be uploaded upon progress and completion.

- *Vulnerability code scanner for static code analysis.*

Started in Week 6 by Nasim. It’s still in progress. Documents will be uploaded upon progress and completion.

- *SCC and SIEM integration (Raising SIEM incident upon vulnerability finding)*

Started in Week 6 by Nasim. It’s still in progress. Documents will be uploaded upon progress and completion.

Project Members

Member Name	Role	Task
Nasim Emadi	Team Lead	<i>Leadership, and SCC integration with SIEM</i>
SANJAY MEDIKONDURU	Team Member	<i>Vulnerability code scanner</i>
HARSHANA THILANGA	Team Member	<i>Project tenant initiation and Asset Discovery</i>

Data/AI team

Project 11: FIT File Handling and Data Pipeline

Overview, Goals, and Objectives

The FIT File Handling and Data Pipeline project aims to handle FIT files from the Wahoo KICKR Live, convert them to CSV format, and upload the data to a database. It will aim to provide real-time performance metrics through a rudimentary user interface using basic JS, HTML, and CSS as an MVP (only data points). The project will offer guidance to the web/application team on integrating the data within the game experience. A Python script will communicate with the KICKR, download, and convert FIT files to CSV, and integrate the data into the data warehouse project for storage. The project will provide a comprehensive solution for handling KICKR Live FIT files, making the data easily accessible for analysis and real-time performance metrics.

Top of Form

Aims for Trimester

- *Develop a Python script for communicating with the Wahoo KICKR Live via Bluetooth connectivity and Wahoo API, downloading, and converting FIT files to CSV, and uploading data to a database.*
- *Create a rudimentary user interface using basic JS, HTML, and CSS to display real-time performance metrics as an MVP.*
- *Provide guidance to the web team on integrating the data within the game experience.*

Deliverables

Long-term Deliverables:

- *A comprehensive solution for handling KICKR Live FIT files, making the data easily accessible for analysis, and providing real-time performance metrics.*
- *A scalable and secure data pipeline that integrates with the game experience.*

Trimester Deliverables

- *Completed Python script for downloading, converting, and uploading FIT file data using the Wahoo API and Bluetooth connectivity to the KICKR Live.*
- *Rudimentary user interface displaying real-time performance metrics as an MVP.*
- *Documentation on Python script usage and deployment.*

- *Guidance for the web team on integrating data within the game experience, including instructions on how to access the data through the data pipeline.*

Project Members

- *Mark Tellec – Product Owner*
- *Sindhuja – Product Lead*
- *Prastut – Stakeholder (Data warehouse)*

Key Progress:

1. *Clear Pipeline Design and is being implemented*
2. *Set up bigquery sandbox environment for centralised data storage for other Data/AI team members.*
3. *Wahoo API application approved*
4. *Wahoo API development in progress*
5. *Github - https://github.com/redbackoperations/data-analysis/tree/main/Trimester_1_2023/Project%2011%20FIT%20File%20Handling%20and%20Data%20Pipeline/wahoo_connection*
6. *Implementation of pycycle as a means of pulling data out of the wahoo machine*
7. *Github - https://github.com/redbackoperations/data-analysis/tree/main/Trimester_1_2023/Project%2011%20FIT%20File%20Handling%20and%20Data%20Pipeline/wahoo_connection*

Project 12 : Develop a "Consultation Platform"

The aim of this project is to implement a foundational tool to collect data from users to be able to provide them with a regular fitness routines and workouts suitable for their body type, to ensure that the exercise they are performing is effective.

The tools will be used to gather data, include case studies, health information, record of previous performances, checklists, interviews, , surveys and questionnaires

- Corporate Reporting Project

The Corporate Reporting project aims to create the static reports mentioned below, using SQL queries on the underlying tables.

- weekly summary reports
- Ranking analysis reports
- workout summary reports

There will be views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

Key Progress:

Completed by Ella Zarandi

- Research on Strava schema,
- Consultation platform features
- What data we are collecting/needed to be collected

Completed by Sindhuja Manduru

Conducted a research about the current collected data fields which we are going to use to generate the reports

- **Feedback analysis models Project**

This project aims to train and prepare a "feedback analysis model" to be used at for the "feedback" feature to collect data in order to be used in our Consultation platform project

As currently we don't have a "Feedback" feature in our products, so I will be using an "Amazon food reviews and rating" dataset in csv format (which are text reviews and rating the food out of five stars)

What is done:

Conducted some research about the technologies to implement this feature, and based on the result, I decide to use the following two main techniques:

- *Vader Model which is a NLTK (python's natural language toolkit) module that provides sentiment scores based on the words used*
- *Roberta model which is a pre-trained transformer model*

- ✓ *Will explore using some huggingface pipelines for making analysis quick and easy*
- ✓ *Will conduct analysis and evaluation of the models' performance*

Key Progress:

Completed By Ella Zarandi

The Vader Model is developed with the result of 80% accuracy. Below shows the taken steps to develop this model:

Vader is an NLTK module that provides sentiment scores based on the words used. It is a rule-based sentiment analyzer in which the terms are generally labeled as per their semantic orientation as either positive or negative.

- Ran EDA to get an idea of what the data set looks like
- Value count on Score column to see the number of times each score occurs
- Ran NLTK word tokenizer to splits the sentence into the parts of each word in the sentence
- Ran the nltk pos tag for part of speech tagging
- Grouped the Tokens into chunks of text
- Implemented and tested the Model
- Sentiment scores generated and added to the orginal fields
- Ran Plots based on the positive neutral and negative scores
- The plots confirm that our Vader Model is valuable in having the connection between the score of the text and sentiment score and it does relate to the actual rating review of the reviewers

Project Members:

Ella Zarandi, Sindhuja Manduru

Project 13: The Cyclist/User Categorisation Project

The Cyclist/User Categorisation Project aims to employ machine learning algorithms, including k-means clustering, hierarchical clustering, and principal component analysis (PCA), to comprehensively categorise cyclists based on their unique cycling behaviour patterns. The data used in this analysis will be collected from the Wahoo Kickr or Wahoo Bolt devices and Heart Rate monitor, analysed to develop a system of labels, spanning Pro, Semi-Pro, Amateur, Casual, Climber, and Sprinter cyclists. These labels will be further developed through data-driven analysis and may undergo changes, based on the outcomes. The insights gained from this categorisation will be vital in developing SunCycle and to compete with other competitors such apps such as Zwift or Strava, that matches cyclists with similarly skilled riders. Furthermore, the results of the analysis could be used for targeted marketing, sponsorships, and product development.

Aims for Trimester:

- Pre-process and clean the existing data set of FIT files.
- Perform exploratory data analysis on the data set to identify patterns and trends in cyclist behaviour.
- Apply unsupervised learning techniques such as k-means clustering, hierarchical clustering, and principal component analysis (PCA) to categorise cyclists based on their behaviour.

- Evaluate the effectiveness and accuracy of the categorisation results and refine the techniques as necessary.

Deliverables:

- Cleaned and pre-processed data set of FIT files – Create a specific dataset.
- Exploratory data analysis report outlining patterns and trends in cyclist behaviour.
- Categorisation report outlining the identified groups of cyclists based on their behaviour.
- Evaluation report detailing the effectiveness and accuracy of the categorisation results.
- Documentation outlining the project methodology, including data cleaning, and pre-processing steps, algorithm selection, and evaluation criteria.
- User guide and technical documentation for the updated library of algorithms and techniques.
- Handover documentation outlining the necessary steps for future maintenance and development of the project.

Project Members

- Mark Tolley – Product Owner/Lead
- Ella Zarandi – Product Lead

Key Progress:

1. Research conducted
2. Data sets have been prepared for the analysis
3. Scripting will commence from week 7

Project 14: Sentiment analysis (language processing) and Community standards - User/Community comments

The objective of this feature is to create a welcoming and inclusive environment for SunCycle community. SunCycle users have the option to leave comments on each other's activities as means of increasing engagement. To ensure that the comments are appropriate and to keep track of language usage, this project will analyse comment data, develop a model, and classify user comments. Further work will focus on documenting community rules (policy) and how a model confirms with modern day AI ethics.

Aims for Trimester

- Document community guidelines.
- Research different models.
- Procure data sets for training purposes.
- Implement various machine learning model that can classify user comments.
- Analyse model performance and best fit.
- Documentation of entire process.
- Live demo application

Deliverables

- Community guidelines
- Python files with different models
- Documentation of working progress
- Live demo

Project Members

- Tianqi Liang (Yvette) – Lead; responsible for deliverables
- Ella Karimi Zarandi – Support

Key Progress:

Summary of work completed to date / progress

In Week 3:

Cleaned dataset

Created a word cloud

Used word_tokenize to split words and created a new feature to sum up number of words

TfidfVectorizer method to select features from comments

Constructed logistic regression model (0.619371875)

Calculated accuracy score

In Week 4:

Used non-negative matrix factorization (NMF) for dimensionality reduction

Constructed a multinomial Naive Bayes model (Accuracy: 0.58)

Performed grid search cross-validation to select the parameter (alpha)

Used pca method for dimensionality reduction

Constructed a support vector machine model (slow model)

Performed grid search cross-validation to select the parameter (C)

In Week 5:

Random Forest (Accuracy: 0.55)

In Week 6:

Stanford CoreNLP on Google Colab (Accuracy: 0.55 - 0.36175)

Summary of work in flight

I am working on feature engineering, including different dimensionality reduction methods (t-SNE), using nltk and sklearn package and stanford coreNLP in order to improve model accuracy.

Summary of work planned in future

If the current model can achieve an accuracy score of approximately 70 - 80%, I will choose another model such as Gradient Boosted Trees (GBT), Convolutional Neural Networks (CNN), or Bidirectional Encoder Representations from Transformers (BERT) to see if I can reach an accuracy of 90%.

List any issues encountered

Accuracy is only slightly better than random guessing;

Featuring engineering should be refined.

Project 15: User Ranking - Engagement

Overview, Goals, and Objectives

One of the main goals in our SunCycle community is to keep riders motivated and engaged in a regular base. We aim to develop a ranking system to achieve that purpose and enhance engagement among riders. The system is going to rank the users based on how many points they achieve, which will be calculated based on their engagement. We will collect their activity data, prepare it, and use it to build the system. To give an example, a rider could earn 'X' number of points if they ride in two consecutive days. Also, this project aims to use machine learning to provide the users with their ranking projected path, based on their previous engagement, which is expected to be a purpose for motivation.

Aims for Trimester

- *Researching on ranking systems (Mostly related to sports)*
- *Establishing clear worked out calculations of how and when users earn points.*
- *Researching methods, technologies to be used, and implementing the algorithm (First implementation)*
- *Data collection and preparation for testing*
- *Documenting the whole process*
- *Researching possible machine learning implementations*

Deliverables

Trimester 1 – 2023:

- *Points ranking system based on users' activity data (Working prototype)*
- *Short report on the mechanism of the system*
- *A handover document for the next team*

Long-term:

- *Detailed analysis of users' engagement and rankings*
- *Machine learning features implementation (E.g., Projected path) based on previous research.*

Project Members

Saeed Alnaqeeb – Lead; responsible for deliverables

Mark Tolley – Support.

Key progress:

Completed Work:

Researching, gathering information and requirements needed

Project Plan

Upskilling in some areas needed for the work in upcoming weeks

Exploring and examining a sample dataset

Defining the basis of ranking the users

Work in Flight:

Data analysis

Upskilling in Python and SQL

Reviewing ranking rules

Ongoing documentation

Planned Work for the upcoming weeks:

More upskilling needed

Model development

Data acquisition

Implementation of the system

Encountered Issues:

Lack of time due to some personal enrolment issues in the beginning of trimester

Needed a lot of time for researching before starting any actual work

Project 16: Performance Ranking (User)

Based on training peaks [StackUp](#) – The following will be implement a feature that allows users to see their performance and how they rank or ‘stack up’

Overview, Goals, and Objectives

The main goal of this project is to keep users engage with our product by giving them information regarding their performance. The performance analysis will be available in real time and users will have access to their historical performance. We will create dashboards where users can see their performance evolution. We will create different categories of performance and give them one final score. Users will be able to set goals for each performance category and track their progress on interactive dashboards this will create a competitive in-game environment.

Aims for Trimester

Describe the aims of the project for this trimester.

- *Start the project documentation: Research and Setting objectives (deliverables).*
- *Develop a comprehensive understanding of performance KPIs in cycling.*
- *Gather and analyse the necessary data - making sure we have the data we need to create analysis and dashboards.*
- *Create user-friendly interactive dashboards of user performance analysis.*
- *Prepare documentation for handover to the next team.*
-

Deliverables

Trimester 1 – 2023:

- *Performance score calculation system based on users' activity data.*
- *User-friendly Interactive dashboards of user performance*
- *Real-time performance analysis and historical performance tracking.*
- *Tableau-based reporting for data visualisation.*
- *Documentation of the project's progress and findings for handover to the next team.*

Long-term:

- *Detailed analysis of users' engagement by tracking their own performance.*
- *Elaborate predictions of future goals based on their historical performance.*

Project Members

Miriam Llauce Cotrina – Lead; responsible for deliverables

Tejas Varun Baskar – Support

Key Progress

Summary of work completed to date:

The project that I am currently working on is User Stats Visualization. So, to attain the final visualization we uptake many small processes to attain the final visualization. The first major small process is data cleaning. The data that was provided to was a very large data set (Stats for every second) and had a few missing values as well and the data was also not generalized. So as of today, I have completed the shrinking of the data set (to daily stats), I have also worked on the missing values by substituting the missing values with the mean values of that specific column and I have also removed few null values as it does not very necessary for the visualization and finally, I generalized the final data set as the many of the values had more than 4 decimal values so now it has been reduced to 2 decimal points.

Summary of work in Flight:

The next stage of the visualization is selecting the perfect graph or chart for a specific metric or attribute. so, this task is done using the tool PowerBI and tableau to choose the right graph for the final visualization. This task will be done as a team with my teammate Miriam to avoid the possibility of choosing the wrong graph or chart.

Summary of work planned for the future:

The ultimate goal of this project is Visualizing a specific users stat in the form of a dashboard to see the progress that they have made over the course of 2 years (according to the provided dataset). The final dashboard will display the stats of all the important metrics in a page or two depending the size of selected graph. This can be used as to give the user better view on their progress in a more understandable way.

List of Issues encountered:

I have not specifically encountered any issues. But I had to learn more on the dataset as the current dataset that I am using was a very new topic for me. So, I had to spend more time on understanding about each metrics and their uses to efficiently use them for our project.

Project 17: Workout Categorisation

Overview, Goals, and Objectives

The objective of this feature is to categorise workouts for Smart Bike users into workout types to tailor the experience to the requirements of each user and further gamify their training sessions. Whether a user is attempting to lose fat, improve cardiovascular fitness or simply increase endurance different workout types will provide different outcomes and we can highlight the benefits, recommend workouts that best suit their needs or identify if the user is not meeting their chosen goals. This project will analyse user outputs to develop a clustering model to label workouts based on similar features. Once these labels are assessed as appropriate, these labels can be used for further workout recommendations.

Aims for Trimester

- *Identity appropriate datapoints for the dataset.*
- *Research different clustering models.*
- *Implement and assess different clustering models.*
- *Analyse model performance and validity of clusters.*
- *Develop a workout recommendation engine.*
- *Documentation of process steps.*

Deliverables

- *Clustering model – Trimester 1*
- *Recommendation engine – Trimester 1*

Project Members

Feature lead – Nicholas Manning

Key Progress

Work Completed

- *I established the goals and aims for workout categorisation and clustering project, which are currently on track to meet completion by the end of the trimester.*
- *I researched clustering models to determine that initial testing would be conducted using K-means, followed by further testing to confirm results using K-modes, and a Gaussian Mixture model. Initial testing has shown positive results validating the choice of models so far.*
- *I determined that the performance metrics used to judge model success would include a combination of the elbow method, silhouette scores and visualisations. These have been able to identify an appropriate number of clusters and identify broad cluster types.*
- *I have determined the appropriate data cleaning measures. Pre and post cleaning results show a clear improvement and more distinct clusters.*

Future Work

- *Lockdown the final dataset to train the model on as currently I have only been using a test dataset. Once the dataset is received I will be able to better tune the final model.*
- *Confirm through further and broader testing the appropriate model and amount of clusters, and decompose the clusters to label each one as a specific workout type.*
- *Develop a workout recommendation model to provide users with options for further exercise based on their current sessions.*
- *Document the process steps and results to ensure an accurate transparent approach.*
- *Provide ongoing support and feedback on my progress and the progress of my colleagues to the Data and AI team through our various forums: meetings, Trello board, GitHub.*

Issues Encountered

- *Bottlenecks with our BigQuery site importing real bike data.*

Project 18: Data Warehouse

Overview, Goals and Objectives

The data for the Data and AI teams of Redback Company are temporarily stored in BigQuery environment. As BigQuery is a cloud-based environment and therefore has a limited database security option. As there is no infrastructure to manage and does not need a database administrator it can further expose the data to more vulnerabilities. So, we aim to provide an effective and long-term solution for the temporary measures that we have taken. The data will be pipelined into a Relational Database Management System (RDMS), and we aim to provide it through MSSQL. The data warehouse will consist of various layers from extracting Raw data to creating data marts for the business. In this project the primary focus would be providing an effective data warehouse architecture following data integration strategies, governance and security but not limited to modelling and analytics strategies.

Aims for Trimester

- *Defining an architecture for the warehouse which includes data ingestion methods, storage options, and software and hardware specification, among others.*
- *Establishing data privacy, data security and data quality process.*
- *Development of logical models, data schemas and data marts.*
- *Establishing pipeline for the raw data connection and designing ETL pipelines.*
- *The ability of handling large chunks of data with continuous monitoring and optimizing.*
- *Development of master database.*

Deliverables

Long-term

- *A permanent solution to the extraction and storage of data.*

- *Integration of Extract, Transform and Load (ETL) workflows which extracts data from the source, transforms as per the architecture and requirements of the data warehouse, and loads into the warehouse.*
- *An effective data quality and governance framework.*

Trimester

- *A visual representation of the data structure in the data warehouse.*
- *A detailed description of how data from various sources are integrated and transformed.*
- *A master documentation that consists of comprehensive documentation of the data in the warehouse along with system and user documentation.*
- *A beta version of the integration of ETL through the proposed data warehouse architecture*

Project Members

Prastut Sapkota – Project Lead

Saransh

Ankit

Key Progress

Summary of work completed:

- *Architecture has been designed.*
- *Raw database of the warehousing has been created.*
- *Staging database of the warehousing has been created.*
- *A few master database tables has been added into Warehouse.*
- *A sequential workflow for the alteryx design has been created.*

Summary of work in flight:

- *Creation of production database in the warehouses.*
- *Testing the warehouse in a dedicated server.*
- *Integration of FIT file directly through API into Alteryx.*
- *Team support related to alteryx and databases.*

Summary of work planned in future:

- *Creation of data marts for current team.*
- *Airflow deployment.*
- *Warehousing of other data sources.*

List any issue encountered:

- *Sequential workflow through alteryx has taken a lot of research and development time.*

Project 19: Google Analytics/Hotter Analytics/MixPanel/App Analytics (Marketing and UX)

Overview, Goals, and Objectives

We are using existing data from Google Analytics to create reports to study user's behaviour and get meaningful insights about their out-of-game engagement to create a feedback loop for product owners which will enable them to view and address product statistics, bounce rates and various other issues.

Aims for Trimester

- *To formalise report on key data insights*
- *Attempt to harmonise various data sources.*
- *To capture the behavioural & consumption pattern*
- *To collect details of other products of same specification*

Deliverables

- *Develop a pipeline for potential areas of focus for better allocation of resources.*
- *Develop functional model viz-a-viz product vs customers.*
- *Integrate with online data warehouse to store key data points such as the bounce rates and other critical user metrics, from various sources.*
- *Provide working example of software engagement metrics.*

Project Members

Kunal Tripathi - Lead

Key Progress

Summary of work completed- Used GA(Google Analytics) for a travel website to find the constitution of the in-flow of users, detailed statistics (acquisition, behavior and conversions, etc.) of the site for various durations and their comparisons, demographic (Age, gender, etc.) of the users as well as the visualization of all the data from all the popular browsers.

Summary of work in flight- Checking the statistics with other tools like hotjar/mixpanel and comparing them with the findings from GA

Summary of work planned- Design custom based tools using our own algorithm to pull more relevant data pertaining to work/task. The tool designed will be able to pull relevant data for understanding the dynamics of the people hitting the site and convert large chunks into sales. Integrate the tool with the other ongoing projects in the next trimester like the data warehouse project, as well as with mixpanel and hotjar.

List of Issues encountered-

1. *The data was preset as per the designers view point and therefore the project had to be tailored according to the designers views*
2. *Limitation on acquiring the data set. The data set was not enough to come to precise conclusion*
3. *Few minor admin issue like erratic Wifi*

Project 20: Posture Analysis

Overview, Goals, and Objectives

This project involves using pose estimation algorithms to detect postures and facial expressions and analyse them to better improve user experience during cycling. We can use gesture analysis to detect discomfort, exhaustion or enjoyment and provide the appropriate stimulation for the users or alerts. Moreover, we can also use posture analysis to recommend and monitor pre-workout warm-up stretches, cycling posture, and post workout cooldown stretches. The data can be used to improve the algorithm and provide insights for improving the environment or the bike.

Aims for Trimester

- *Research of previous studies relating to facial gestures and posture during exercise*
- *Selecting the most suitable pose estimation algorithm as a base*
- *Collecting cycling and cycling related video and photo data*
- *Developing an analysis model that sorts and analyses the data, then creates a usable output for further use or storage*
- *Documenting the functionality of the model and its results*

Deliverables

- *Report on the information gathered from previous studies*
- *Cleaned and organised data*
- *A pose analysis model*
- *Documentation for project handover*

Project Members

Samuel Borough Kamau-Lead

Key Progress

1. Summary of work completed to date / progress:

- *Implemented a Python algorithm using OpenCV, Mediapipe, and TensorFlow to detect cycling posture and technique in real-time from video.*
- *Used the algorithm to analyze cycling posture and technique and detect common errors such as incorrect elbow, hip, and knee angles and wrist flex.*
- *Validated the algorithm's output using visual inspection and feedback from a small group of cyclists.*
- *Optimized the algorithm's hyperparameters to improve its performance on the test dataset.*

2. Summary of work in flight:

- *Analyzing the algorithm's performance on different types of bicycles and in various lighting conditions and camera angles.*
- *Adding a more interactive and intuitive UI to better improve user experience*
- *Comparing the algorithm's performance to existing tools for analyzing cycling posture and technique.*
- *Conducting a longitudinal study to assess the algorithm's long-term impact on improving cycling posture and technique.*

3. Summary of work planned in future:

- *Collecting a diverse dataset of cycling videos to test the algorithm's performance on different cycling styles and body types.*
- *Using an objective measure of posture and pedaling technique such as motion capture or force plates to validate the algorithm's output.*
- *Conducting a pilot study with a larger group of cyclists to obtain feedback on the algorithm's usability, accuracy, and effectiveness in improving posture and pedaling technique.*
- *Analyzing the algorithm's performance in terms of its ability to detect and correct common posture and pedaling errors.*
- *Optimizing the algorithm's hyperparameters such as the detection confidence thresholds and the scale factor to achieve the best performance on the dataset.*
- *Evaluating the algorithm's performance under different lighting conditions and camera angles to ensure its robustness.*
- *Testing the algorithm's performance on different types of bicycles such as road bikes and mountain bikes to ensure its generalizability.*
- *Collecting user feedback on the algorithm's usability, accuracy, and effectiveness and using it to further optimize and improve the algorithm.*

13 Final Individual Retrospective

Activities that have been undertaken for presenting and covering CLOs

Date	Author	Comment
2023/05/21 23:45	Elaheh Karimi Zarandi	Ready to Mark
2023/05/25 16:48	Fatemeh Ansarizadeh	Hi Elaheh, thank you for submitting your Final Individual Retrospective task on time. The first comment I need to make is not having you in any of the weekly meetings. I have a meeting at 6 pm and 8 pm today. In case of you are available please text me to add you to the meeting.
2023/05/25 16:51	Fatemeh Ansarizadeh	The number of pages of this document is too many. Please keep only the most important pieces of evidence and provide them with the relevant caption. 30 pages is reasonable for such a document.
2023/05/25 16:51	Fatemeh Ansarizadeh	Fix and Resubmit
2023/05/26 13:09	Elaheh Karimi Zarandi	Hi Fatima, I just saw your comment here, this afternoon I'm free between 6 to 8 pm if it works for u
2023/05/27 13:58	Fatemeh Ansarizadeh	Please consider my comments and resubmit a shorter version of your report by keeping the most important pieces of evidence with relevant captions asap.
2023/05/27 22:09	Elaheh Karimi Zarandi	Ready to Mark
2023/05/27 22:09	Fatemeh Ansarizadeh	Time Exceeded
2023/05/27 22:25	Elaheh Karimi Zarandi	Done!
2023/05/28 13:34	Fatemeh Ansarizadeh	Hi Elaheh, As I mentioned in my first comment, the report is too lengthy and would be great if you trim it down to have 30-40 pages. Please bear in mind that the portfolio is consisting of your all submission and would eb too lengthy in case one single submission is 96 pages.
2023/05/28 13:35	Fatemeh Ansarizadeh	I need to ask you to shorten the report by keeping the most critical parts.
2023/05/28 13:35	Fatemeh Ansarizadeh	Fix and Resubmit
2023/05/28 19:50	Elaheh Karimi Zarandi	Hi Fatima, oh u ment including the references it should be 30 pages? I have already removed 20 pages, if I wanna make it to 40 pages, it means that I have to remove another 60 pages, then I have to recreate my report I believe, as if I hurry it, I might remove the essential information, so would be great if u give me more time, maybe till Tuesday night, so I could resubmit my edited report
2023/05/29 23:56	Elaheh Karimi Zarandi	Ready to Mark
2023/05/29 23:56	Fatemeh Ansarizadeh	Time Exceeded

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Final Individual Retrospective

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/05/27 22:09

Tutor:

Fatemeh ANSARIZADEH

May 27, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699

Target grade: HD

Individual Retrospective

Below is the List of my technical and leadership achievements, through working at the Redback company:

- ***Conducted On-boarding process, with the result of 65 students were integrated into the company.***
- ***Made sure all students are completely settled by end of week three***
- ***Providing support to and meeting with IOT student from "shadow program"***
- ***Reviewed and Evaluate the status of the company's current projects and products by referring to the available resources, Identified and defined the existing project's problems and issues and Suggested the possible solutions***
- ***Came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features***
- ***Redesigned and modified some projects' plans to make them achievable***
- ***Merged two teams to ensure consistency in work.***
- ***Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team***
- ***Upskilling and research on wide range of contributed tools and technologies***
- ***Making Technical contribution in AI/Data team by working on three Data analysis and ML projects***
- ***Participation in IOT projects by identifying the issues, sprite planning, assigning tasks and deadlines, modifying the projects and providing resources, solutions and instructions***
- ***Promoted communication processes across the company***
- ***Tracking and evaluating the project progress across the company and made sure the deadlines are met***
- ***Improved digital literacy in the company by providing team members with resources and access to their required tools, assisting them with resolving their technical problems and supporting them through their task completing***
- ***Performed great problem solving skills, involving critical thinking, decision-making, creativity, and information processing***
- ***Self-awareness of strengths and weaknesses, by evaluating the technical and leadership knowledge and skills and seek for feedback and assistance when needed***
- ***Showcased a remarkable team working skills, played as an active part in creating a positive environment for everyone, and supported any fellow students who needed extra support to make sure everyone are on the right track.***

Course Learning Outcomes

GLO1 – Discipline-specific knowledge and capabilities

As data science incorporates various disciplines, such as data collecting, data preparation, predictive analytics, machine learning and data visualization, so I believe that Redback company would provide me with the best opportunity to apply and improve these skills, by working through various projects.

In this trimester I will be running the IOT, as the team leader. By participation in IOT projects, I will gain more knowledge about collecting and preparing data sets from sensors using Raspberry pi, also I will be improving my knowledge on Google Cloud Platform (GCP), MQTT server and CMS.

Also I am working with Data/AI team as the second leader, to improve my skills in predictive analytics, machine learning and data visualization through working in the AI projects.

Unit Discipline goal part 1:

As accompany leader and also a Data/AI member, I was required to have a clear understanding of the company data pipeline, and the location of stored projects and resources. So below is the action conducted:

- Studied and research about the existing pipeline
- Locate the stored projects, resources and collected data and shared with other members based on their project's requirements
- Planed projects to make the data available and accessible to other teams,
This Tri we considered to create a projects aiming to "Available the Data to Teams/Users" by integrating the CMS pages into the existing website, with login authentication protecting it.
But after some discussion with Company 'directors and Data/AI leader, this project passed to AI team which now successfully implemented, under Project 11, FIT File Handling and Data Pipeline
I would say still I strongly suggest we develop an API, so other team could query and access data out of it.
As I believe the project 11 which generate the FIT file using the collected data from wahoo, is more beneficial to present the workout summary for users to view.
So I believe we need to make this data available in our website as well to be accessible for other teams.
It could be happen by integrating the CMS pages into the existing website or developing an API, so we could call for example
"ip address/API/bike1" -→ and it give us all the bike1 data in Jason format, then we could convert it to csv or other format

Evidence Screenshot

Security and Compliance

Compliance is important for many reasons, including trust, reputation, security, and data integrity. According to implement the Security, I would control accesses to the tools, data sets and platforms and below:

- Supported Cyber team, to make them able to complete and implement their projects,
 - ✓ Assisting them by selecting the right projects based on our company's products and needs,
 - ✓ Creating their access to the GCP,
 - ✓ provided support with their sprint planning and task assigning, regularly tracked their tasks and projects to make sure that everything running smoothly,

Now we have the following products in place:

- SCC in the vulnerability project continuously publishes findings as messages to pub/sub in its project space, then SIEM (Wazuh) from the sibling project will use the service account to retrieve messages.
- 2 Factor Authentication service
- Deployed Vulnerability Management System
- Implemented SIEM into the google cloud environment

- Limited access,

- As the company Leader, it's only me that have ownership access to the GitHub
- I grant collaborator GitHub access only for the team leaders, and other members have only "member access", so they are not able to merge to the main branch, and need to submit request. This way leaders could get a chance to check the codes and files before they get merged to the main branch.

Unit Discipline goal part 2:

To be able to showcase my knowledge and skills in developing data analytics solutions, I'll be participating in the following Data/AI projects:

Fitness Tracker Project:

The aim of this project is to implement a foundational tool to collect data from users and their workouts to be able to provide them with a regular fitness routines and workouts to make their exercise performance more effective.

In this project the data set which has been used, called "Master_Data" which is accessible through BigQuery.

This project has different components as bellow:

- ❖ Data Dictionary
- ❖ Data Pipeline
- ❖ BMI Calculator
- ❖ Feedback Analysis
- ❖ The Corporate Reporting

1- Data Dictionary

Established a data dictionary and placed in GitHub to allow others to understand the data variable names and values.

Fitness data master data set

Fields	
Distance	show distance in either miles/feet (statute units) or kilometers/meters (metric units)
Enhanced_altitude/Altitude	<p>To determine the rider's elevation which means the total number of feet the rider climb in a ride)</p> <p>This information is recorded during the activity and is used to report elevation related information in Garmin Connect.</p>
Ascent	A climb or walk to the summit of a mountain or hill/an instance of rising or moving up through the air.
Total Ascent	A total of elevation gain which means the total number of feet the rider climb in a ride
Average Ascent	Provides an average of all ascents recorded during an activity
Maximum Elevation	Provides the highest elevation achieved.
Grade	Data field for Garmin devices that calculates the slope (or grade) of the hill users are walking on
Calories	This is the total of active and resting calories that are calculated during a recorded activity on your device (from the moment that you start the timer for the activity to the moment you stop the timer)
Speed/Distance Algorithm:	This is the most basic method of determining calories. It is represented in calories/Kcal.
Speed/Enhanced Speed:	<p>It is distance by total time sent on an activity. It is calculated in m/sec or m/h.</p> <p>If the values of speed are too large to be fit in speed, then enhanced</p>

	<i>speed is used.</i>
Heart_rate:	<i>heart rate values can be set as absolute or relative values. Absolute values represent beats per minute (bpm) for heart rate, or watts for power.</i>
Temperature:	<i>The Temperature widget will display the ambient air temperature near the barometric altimeter port. This reading can be affected by body heat. It is represented in Fahrenheit.</i>
Cadence	<i>The cadence fields in a FIT file represent RPMs. For cycling 1 RPM equals one full rotation of the cranks. Cadence in cycling is the number of revolutions your pedals make per minute as you ride. revolution per minute(RPM)</i>
Power	<i>Power values can be set as absolute or relative values. Absolute values represent watts for power.</i>
Left_right_balance	<i>It shows as a percentage the power separately put out by the left and right leg.</i>
Session_ID	<i>It is unique id generated for each session performed by user</i>
User_ID	<i>It is the unique ID generated for every user</i>
Weight	<i>It gives the weight of the person in kgs</i>
Gender	<i>It Shows gender of registered person of the device</i>
FTP	<i>Functional Threshold Power (FTP) is a measurement from power meters. It is the highest power level you can maintain for one hour without growing fatigued. FTP is beneficial because it provides an outlook on performance ability.</i>
Age	<i>Available on select Garmin watches, Fitness Age is an estimate of how fit you are compared to your actual age. Compatible Garmin watches will measure your Fitness Age differently, depending on which device you have. Fitness age is an estimate of how fit you are compared to your actual age</i>
Product_Name	<i>It describes the product used for recording the activity.</i>

Link to the Wahoo Introduction

<https://cloud-api.wahooligan.com/#introduction>

Link to GitHub

[Link to Ms Team](#)

2- Data Pipeline

Conducted research about the data pipeline in Redback Company and provided a copy for other members in GitHub and MS Team,

The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.

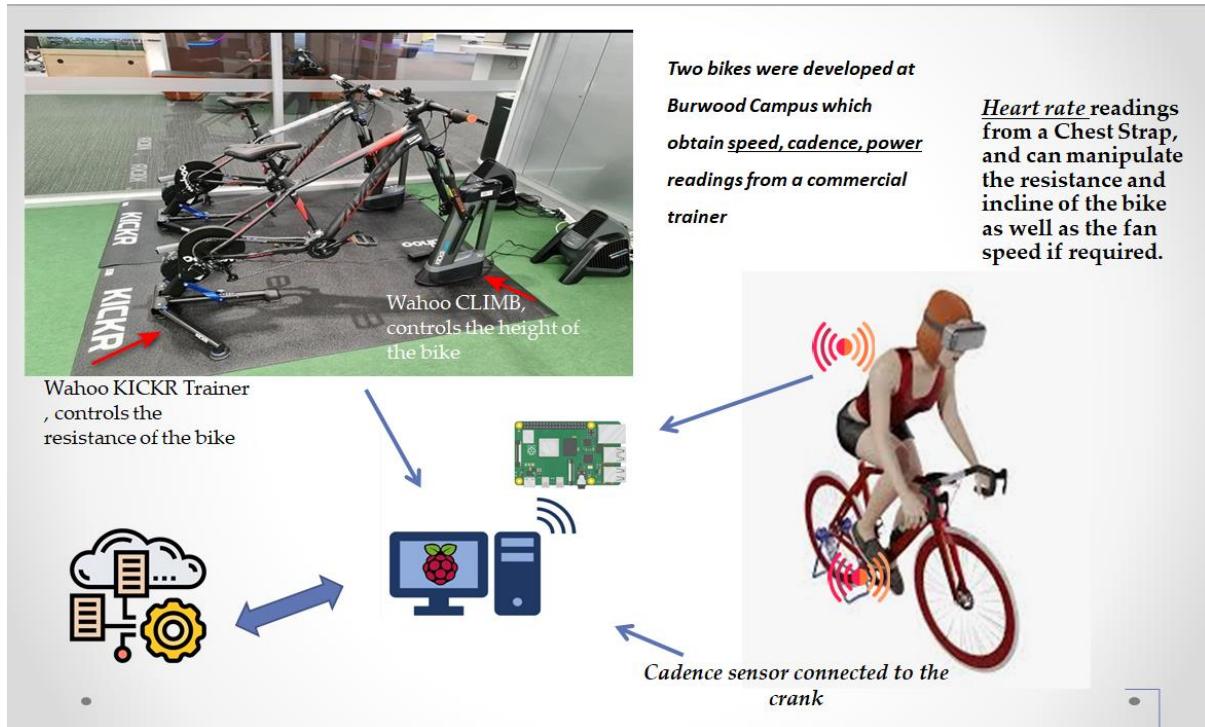
Here is the result of my research:

The Data Origin and Data Pipeline in Redback Company:

At Redback company we utilize "Contact Management System" (CMS). The data is received from bike's sensors (Whahoo) via Bluetooth using a Raspberry Pi and submitted via MQTT to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python to get data from riders and sending it off to the mobile app to get used.

The protocol used for this data transport mechanism used by drivers is MQTT.



The CMS is currently hosted at <http://34.129.10.237> that is under the company owned GCP account.

The dashboard shows an overview of the data collected and displays the recent stored sensors data in real time (if there's any activity using the mobile cycling fitness app), the bikes page can be used to set up additional bikes, the devices page used to provide details for additional sensors, and device data used to search or edit the collected data.

[Link to Ms Team](#)

[Link to GitHub](#)

3- BMI Calculator

A BMI Calculator has been implemented using python, as we don't have the height field in our current database to be able to calculate the BMI, so on the model that I've implemented it would ask the user to input their height and weight and then it would calculate the BMI.

Summary of BMI and the benefits and limitations:

BMI(Body Mass Index) is one of the most common ways of grouping people by their weight.

A History of BMI:

BMI was first developed in the mid-1800s by a polymath called Adolf Quetelet. The purpose was to measure people's weight in relation to their height, by dividing their weight in KG by their height in meters squared. Scientists have created BMI categories to group people according to how far their weight is from the norm for their height.

The categories of BMI:

- *BMI less than 16, classified as "Severely Underweight",*
- *BMI 16 to <18.5, classified as "Underweight" range.*
- *BMI 18.5 to <25, classified as "Healthy weight" range.*
- *BMI 25.0 to <30, classified as "Overweight" range.*
- *BMI 30.0 or higher, falls within the "Obesity" range.*

Benefits:

- *Easy to measure,*
- *No expensive equipment needed,*
- *It is quick and cheap to work out,*

Limitations:

- *BMI is not a way of diagnosing body fat,*
- *Categorizing people based on their BMI could lead to weight stigma,*
- *BMI is not an appropriate measure for children*

The following code will receive "Height" and "Weight" from user to calculate and round the BMI to 2 decimal places and shows the user's BMI category using a function called "BMI". Also this code will check the entered values for "Height" and "Weight" and if it's not valid, it will respond "Incorrect Data"

```
In [77]: h = float(input('Enter height in Meter: '))
if (h >= 1.0 and h <= 2.5):
    height = h
else:
    raise Exception("Incorrect Data, Please enter your height in Meter ")

w = float(input('Enter weight in KG: '))
if (w >= 10 and w <= 1000):
    weight = w
else:
    print("Incorrect Data, Please enter your weight in KG ")

def BMI(height, weight):  #BMI Function to calculate BMI
    bmi = round(weight/(height**2), 2)

    if (bmi < 16):
        return 'Severely Underweight', bmi

    elif (bmi >= 16 and bmi <18.5):
        return 'Underweight', bmi

    elif (bmi >= 18.5 and bmi <25):
        return 'Healthy', bmi

    elif (bmi >= 25 and bmi <30):
        return 'Overweight', bmi

    elif (bmi >= 30):
        return 'Obese', bmi

calculation, bmi = BMI(height, weight)
print('Your BMI is: {} which is {}, the normal BMI is between 18.5 to 25'.format(bmi, calculation))
```

Enter height in Meter: 1.70

Enter weight in KG: 60

Your BMI is: 20.76 which is Healthy, the normal BMI is between 18.5 to 25

After you run the code, it will ask for height and weight

	Enter height in Meter: 1.6
	Enter weight in KG: 58

And then it will calculate and return the BMI,

Your BMI is: 22.66 which is Healthy, the normal BMI is between 18.5 to 25

[Link to GitHub](#)

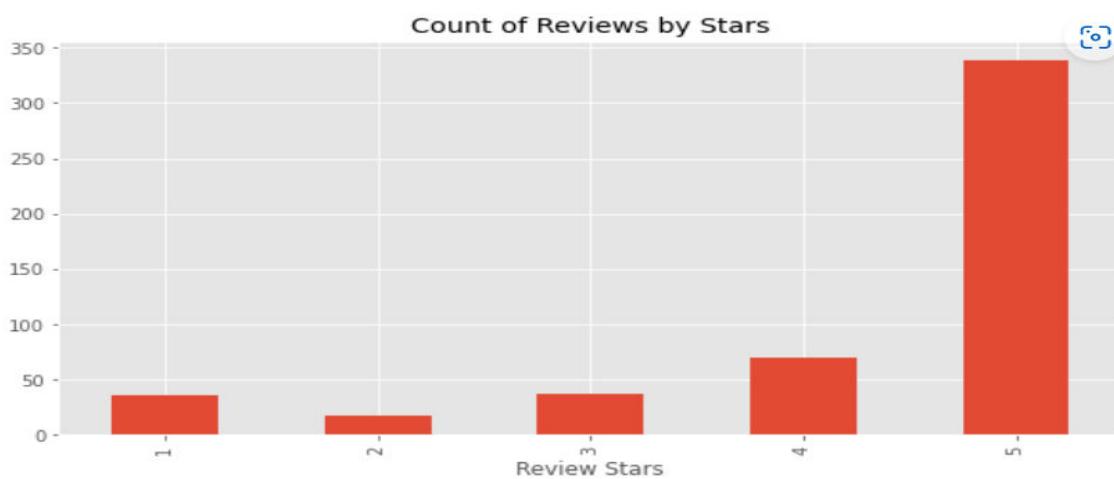
4- Feedback Analysis

This project aims to train and prepare a “feedback analysis model” to be used at the time that we would have the “feedback” feature for any of our products.

As currently we don't have a “Feedback” feature in our products, so I will be using an “Amazon food reviews and rating” dataset in csv format (which are text reviews and rating the food out of five stars)

- The Vader Model is developed
- Ran NLTK word tokenizer to splits the feedbacks
- The required Tokens are generated
- Sentiment scores are generated and added to the current dataset

The Python has been used to create the Model:



the plot we can see that most of the reviews are 5 stars

```
In [83]: # Test 2
sia.polarity_scores('This is the worst thing ever.')
Out[83]: {'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

In [4]: sia.polarity_scores('This is the best thing ever.')
Out[4]: {'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

Below indicates the project progress steps and the whole Python code:

- The required libraries imported:

```
In [ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

plt.style.use('ggplot')

import nltk
nltk.download()

showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

```
In [ ]: import nltk
nltk.download('maxent_ne_chunker')
```

```
In [ ]: import nltk
nltk.download('words')
```

```
In [28]: import nltk
nltk.download('vader_lexicon')

[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\ella\AppData\Roaming\nltk_data...
```

```
Out[28]: True
```

- The data set imported

```
In [17]: # Read in data
feedback = pd.read_csv('Reviews.csv')
feedback.head()
```

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5	1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1	1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJXXAIN	Natalia Corres "Natalia Corres"	1		1	4	1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2	1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5	1350777600	Great taffy	Great taffy at a great price. There was a wid...

```
In [ ]: feedback.shape
```

```
In [ ]: feedback.shape
```

```
In [18]: feedback = feedback.head(500)
feedback.head(5)
```

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text	
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5	1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1	1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJXXAIN	Natalia Corres "Natalia Corres"	1		1	4	1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2	1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5	1350777600	Great taffy	Great taffy at a great price. There was a wid...

- Ran a Quick EDA to get an idea of what the data set looks like

Value count on Score column to see the number of times each score occurs

```
feedback['Score'].value_counts().sort_index()  
Out[19]: 1     36  
2     18  
3     37  
4    70  
5   339  
Name: Score, dtype: int64
```

```
In [20]: ax = feedback['Score'].value_counts().sort_index() \  
         .plot(kind='bar',  
                title='Count of Reviews by Stars',  
                figsize=(10, 5))  
ax.set_xlabel('Review Stars')  
plt.show()
```



From the plot we can see that most of the reviews are 5 stars

- **Running NLTK work tokenizer to splits the sentence into the parts of each word in the sentence**

```
ex = feedback['Text'][50]  
print(ex)  
This oatmeal is not good. Its mushy, soft, I don't like it. Quaker Oats is the way to go.
```

the result came back negative

```
tokens = nltk.word_tokenize(ex)  
tokens
```

```
['This',  
 'oatmeal',  
 'is',  
 'not',  
 'good',  
 '.',  
 'Its',  
 'mushy',  
,  
 'soft',  
,  
 'I',  
 'do',  
 "n't",  
 'like',  
 'it',  
 '.',  
 'Quaker',  
 'Oats',  
 'is',  
 'the',  
 'way',  
 'to',  
 'go',  
 '.']
```

- **Running the nltk pos tag for part of speech tagging**

```

speech_tagged = nltk.pos_tag(tokens)
speech_tagged[:10]

[('This', 'DT'),
 ('oatmeal', 'NN'),
 ('is', 'VBZ'),
 ('not', 'RB'),
 ('good', 'JJ'),
 ('.', '.'),
 ('Its', 'PRP$'),
 ('mushy', 'NN'),
 (',', ','),
 ('soft', 'JJ')]

```

- ***Grouping the Tokens into chunks of text***

```
entities = nltk.chunk.ne_chunk(speech_tagged)
```

```
entities pprint()
```

```

(S
  This/DT
  oatmeal/NN
  is/VBZ
  not/RB
  good/JJ
  ./
  Its/PRP$
  mushy/NN
  ,/
  soft/JJ
  ,/
  I/PRP
  do/VBP
  n't/RB
  like/VB
  it/PRP
  ./
  (ORGANIZATION Quaker/NNP Oats/NNPS)
  is/VBZ
  the/DT
  way/NN
  to/T0
  go/VB
  ./)

```

Implementing the Vader Model:

Vader Sentiment Scoring

VADER(Valence Aware Dictionary for Sentiment Reasoning) is an NLTK module that provides sentiment scores based on the words used. It is a rule-based sentiment analyzer in which the terms are generally labeled as per their semantic orientation as either positive or negative.

VADER has the advantage of assessing the sentiment of any given text without the need for previous training as we might have to for Machine Learning models. The result generated by VADER is a dictionary of 4 keys neg, neu, pos and compound: neg, neu, and pos meaning negative, neutral, and positive respectively.

This module uses a “bag of words” approach:

- Stop words are removed
- Each word scored and combined to a total score
- This model is not account for relationship between words

```

from nltk.sentiment import SentimentIntensityAnalyzer
from tqdm.notebook import tqdm

#sia is an created object of "Sentiment Intensity Analyzer"
sia = SentimentIntensityAnalyzer()

```

Testing our object

```
sia.polarity_scores('I am so happy!')
```

The result is: negative as zero, neutral point = 0.318 and positive point= 0.682, So this sentence is mostly positive

```

# Test 2
sia.polarity_scores('This is the worst thing ever.')
{'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

sia.polarity_scores('This is the best thing ever.')
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}

```

The result is: negative point = 0.451, neutral point = 0.549 and positive point= 0 and compound: -0.6249 So this sentence is mostly Negative

```

# Running the sia on our tokens
sia.polarity_scores(ex)
{'neg': 0.22, 'neu': 0.78, 'pos': 0.0, 'compound': -0.5448}

```

The result is: negative point = 0.22, neutral point = 0.78 and positive point= 0 and compound: -0.5448 So this sentence is mostly Negative

Run the polarity score on the entire dataset, the result is a dictionary which stores the result of the below loop which each raw would

```

result = {}
for i, row in tqdm(feedback.iterrows(), total=len(feedback)):
    text = row['Text']
    myid = row['Id']
    result[myid] = sia.polarity_scores(text)

```

0% | 0/500 [00:00<?, ?it/s]

Here shows the result dictionary with each id that contain the scores of neg, neu, pos and compound which stored in a Panda data frame to make it easier to work with and displayed horizontally

```
pd.DataFrame(result).T
```

	neg	neu	pos	compound
1	0.000	0.695	0.305	0.9441
2	0.138	0.862	0.000	-0.5664
3	0.091	0.754	0.155	0.8265
4	0.000	1.000	0.000	0.0000
5	0.000	0.552	0.448	0.9468
...
496	0.000	0.554	0.446	0.9725
497	0.059	0.799	0.142	0.7833
498	0.025	0.762	0.212	0.9848
499	0.041	0.904	0.055	0.1280
500	0.000	0.678	0.322	0.9811

500 rows × 4 columns

So now we have a data frame that has index which is the IDs and the four neg, neu, pos and compound fields, we call this result Vaders

```
#vaders.reset_index().rename(columns={'index': 'Id'})  
vaders["Id"] = feedback["Id"]  
#vaders.merge(feedback, how='left')  
#vaders.columns  
  
vaders.columns  
  
Index(['neg', 'neu', 'pos', 'compound', 'Id'], dtype='object')  
  
vaders=vaders.merge(feedback, how='left')
```

Now we have sentiment score added to the original fields

	neg	neu	pos	compound	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time
0	0.000	0.695	0.305	0.9441	2.0	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0.0	0.0	1.0	1.346976e+09
1	0.138	0.862	0.000	-0.5664	3.0	B000LQOCHO	ABXLMWJIXXAIN	"Natalia Corres" "Natalia Corres"	1.0	1.0	4.0	1.219018e+09
2	0.091	0.754	0.155	0.8265	4.0	B000UA0QIQ	A395BORC6FGVXV	Karl	3.0	3.0	2.0	1.307923e+09
3	0.000	1.000	0.000	0.0000	5.0	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0.0	0.0	5.0	1.350778e+09
4	0.000	0.552	0.448	0.9468	6.0	B006K2ZZ7K	ADT0SRK1MGOEU	Twoapennything	0.0	0.0	4.0	1.342051e+09

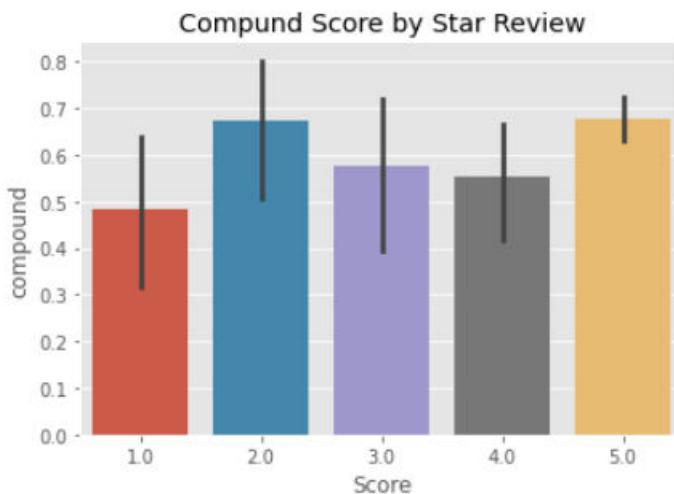
Plot VADER results

Runing the Plot on vaders' data by assigning x the score value which is the star review of the person and then compound is going to be our y value and that's the negative to positive.

```

ax = sns.barplot(data=vaders, x='Score', y='compound')
ax.set_title('Compound Score by Star Review')
plt.show()

```



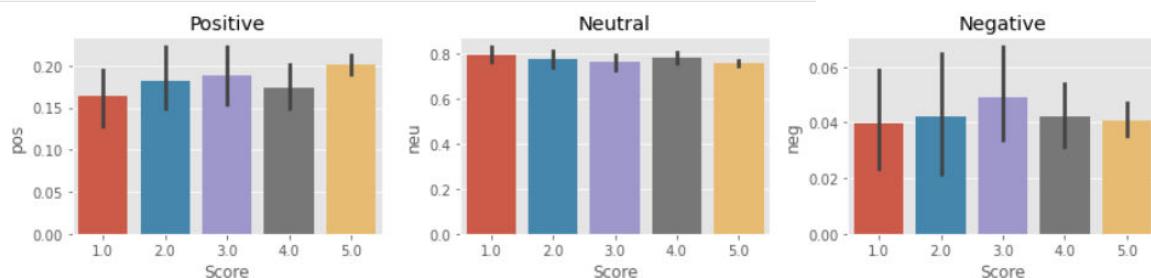
The plot shows that one star review has lower compound score and the five star view is higher

Running the Plot based on the positive neutral and negative scores

```

fig, axs = plt.subplots(1, 3, figsize=(12, 3))
sns.barplot(data=vaders, x='Score', y='pos', ax=axs[0])
sns.barplot(data=vaders, x='Score', y='neu', ax=axs[1])
sns.barplot(data=vaders, x='Score', y='neg', ax=axs[2])
axs[0].set_title('Positive')
axs[1].set_title('Neutral')
axs[2].set_title('Negative')
plt.tight_layout()
plt.show()

```



The plots confirm that our Vader Model is valuable in having the connection between the score of the text and sentiment score and it does relate to the actual rating review of the reviewers

[Link to GitHub:](#)

5- Fitness Summary Reporting

The aims of this project is to create the summary reports, using SQL queries on the “`fitness_data.master_data`” table accessible in the BigQuery.

In this project some dashboards designed using Tableau to visualize the user's workouts reports

Summary Reports – All users

For the best measure of calories burned, the ELEMNT GPS devices series (including the ELEMNT, BOLT, ROAM, and RIVAL) and Wahoo Fitness app default to using calculations based on power output when a trainer or power meter are connected (if no direct power source is connected, heart rate will be used to calculate calories as described further below). Calories from power are calculated based on the following formula:

- $\text{Calorie rate} = (4.184\text{kJ}) * 0.239\text{GMR}$

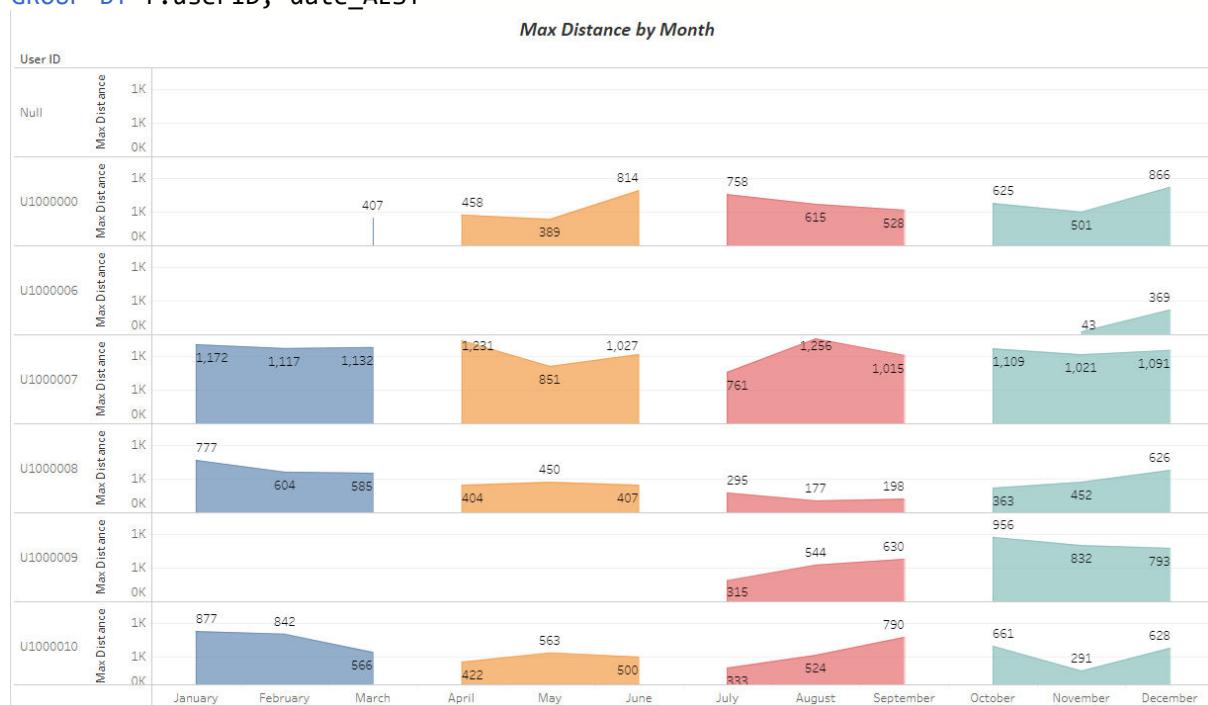
In the calculation above, Kilo Joules (**kJ**) are measured from the trainer or power meter and multiplied by the Gross Metabolic Rate (**GMR**, an average of gross metabolic efficiency), estimated at 23.9% since 1 Calorie is equal to 4.184kJ of work and the human body is about 24% efficient at burning calories.

The MAX calories – By Month

```
SELECT DISTINCT EXTRACT(MONTH from date_AEST) AS month, userId, max(calories) as max_calories
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE calories IN
      (SELECT max(calories) as max_calories
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from date_AEST)
      )
GROUP BY userId, month
ORDER BY month
```

The MAX Distance – By Month

```
SELECT f.date_AEST, f.userId, max(f.distance) as max_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
inner join
      (SELECT s.userID, max(s.distance) as max_distance
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from s.date_AEST), s.userID
      )
ON f.userID = s.userID and
GROUP BY f.userID, date_AEST
```



Total Calories and Distance for all users by each date – 2021

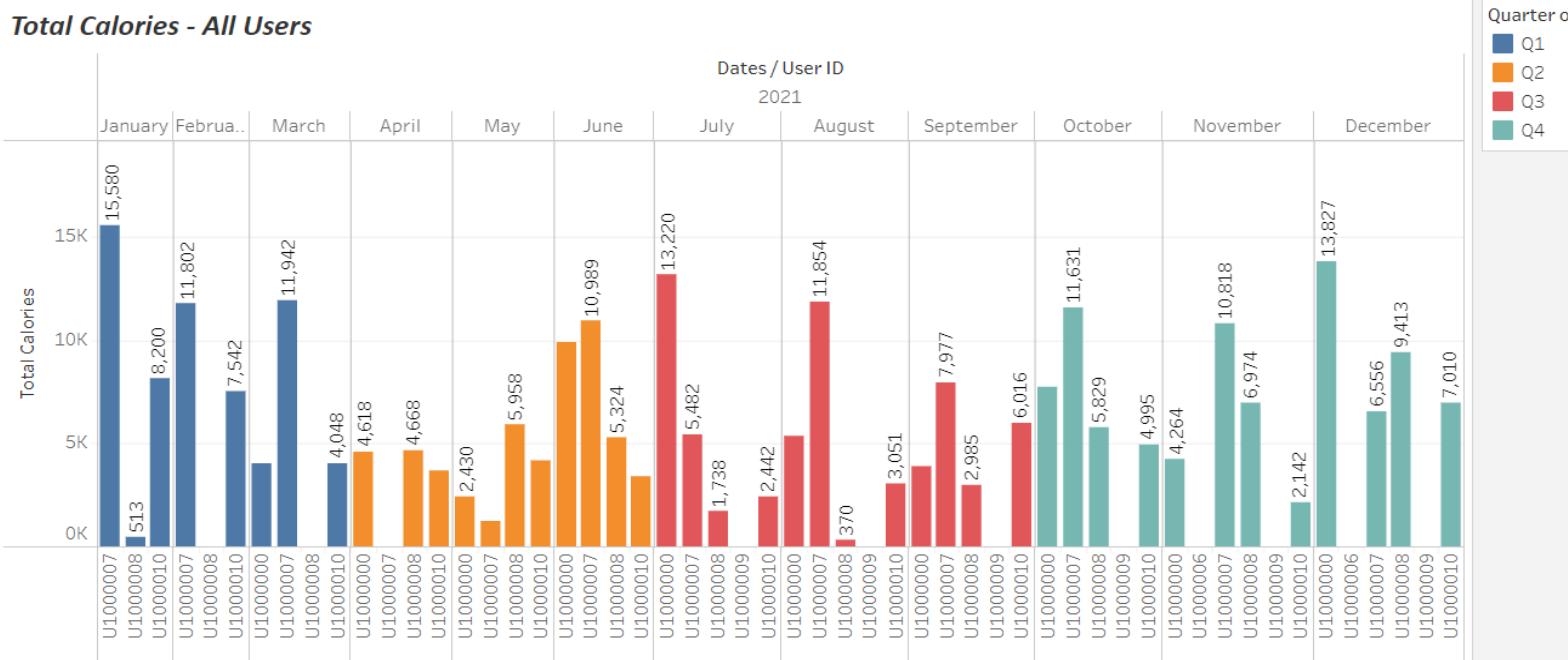
```

SELECT userID, date_AEST AS dates, Round(SUM(calories)/4.18) as total_calories,
       Round(SUM(distance)/1000)AS total_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31')

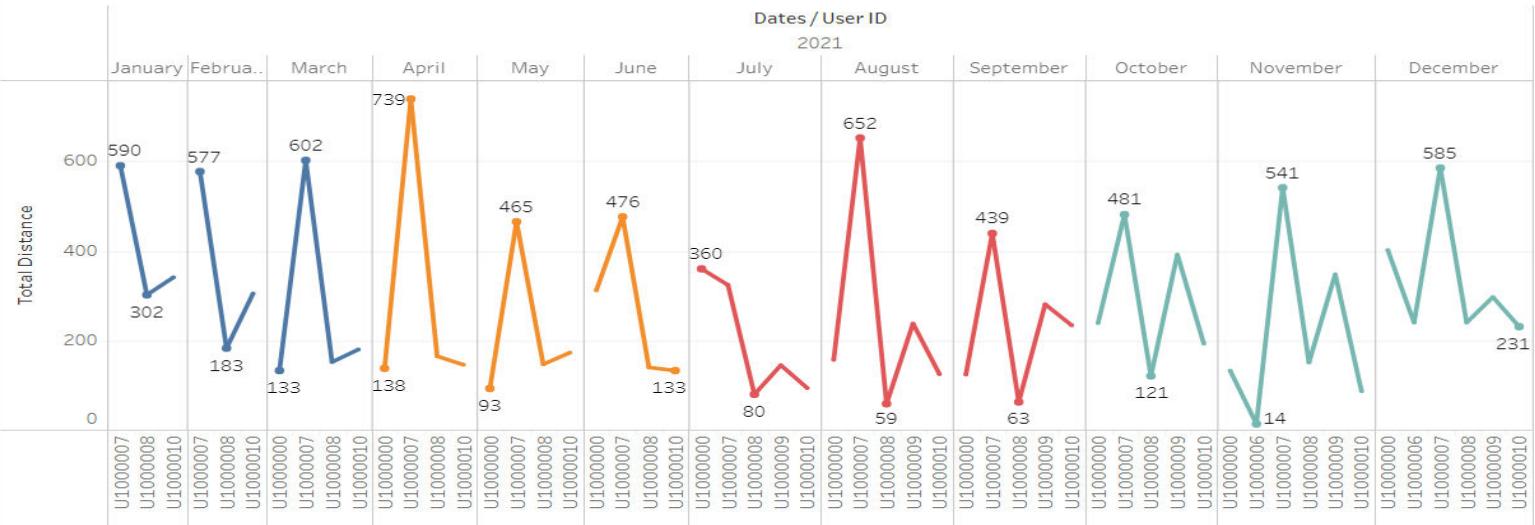
GROUP BY date_AEST, userID
ORDER BY date_AEST
    
```

Row	userID	dates	total_calories	total_distance
1	U1000007	2021-01-01	3293.0	66.0
2	U1000007	2021-01-02	3791.0	70.0
3	U1000010	2021-01-02	101.0	5.0
4	U1000007	2021-01-03	122.0	8.0
5	U1000007	2021-01-05	749.0	16.0
6	U1000010	2021-01-07	1308.0	54.0
7	U1000010	2021-01-08	77.0	4.0
8	U1000007	2021-01-08	1205.0	28.0
9	U1000008	2021-01-08	null	3.0
10	U1000010	2021-01-09	568.0	22.0
11	U1000007	2021-01-09	null	106.0
12	U1000008	2021-01-09	233.0	31.0
13	U1000008	2021-01-10	null	11.0
14	U1000007	2021-01-10	1291.0	49.0

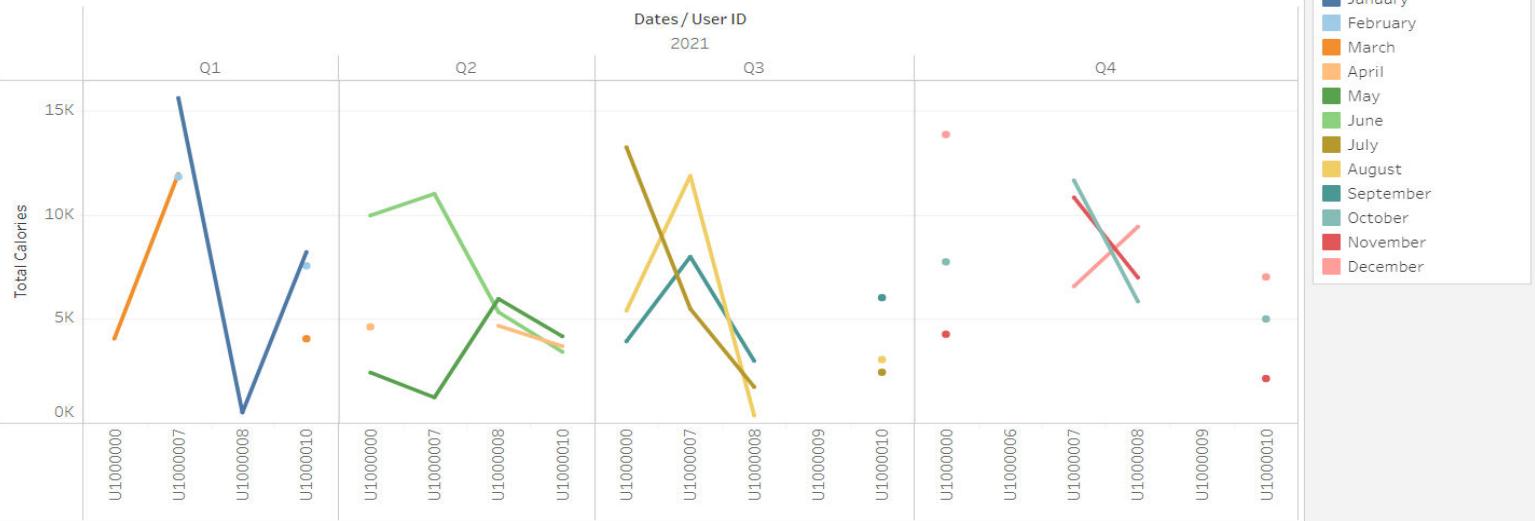
Total Calories - All Users



Total Distance - All Users



Total Distance - All Users



Tracking Summary Report 2021 - All Users

Month of Dates	Total Calories	Total Distance
January	24,293	1,233
February	19,344	1,065
March	20,041	1,067
April	12,974	1,188
May	13,785	878
June	29,682	1,061
July	22,882	1,003
August	20,665	1,231
September	20,899	1,141
October	30,185	1,426
November	24,198	1,274
December	36,806	1,995

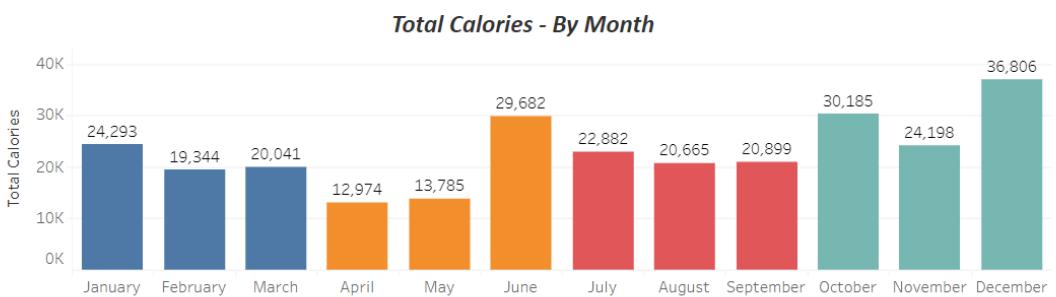
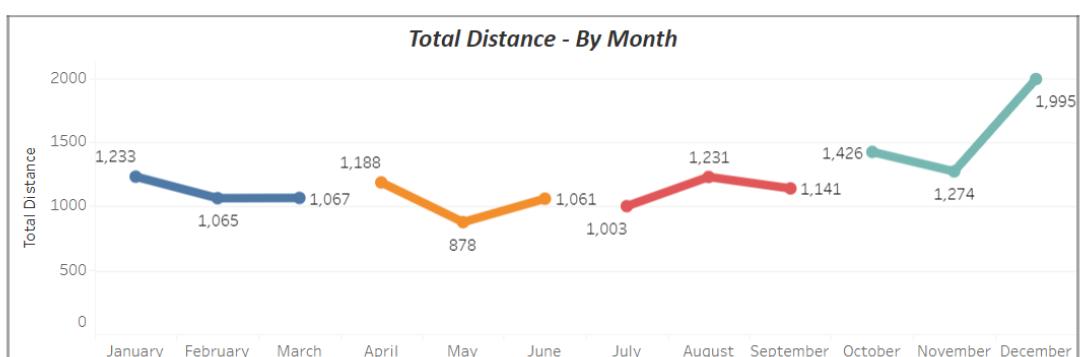


Tableau Dashboard - Total Report by Month (All Users)

- Average, MAX and MIN distance and calories for all riders – By Month

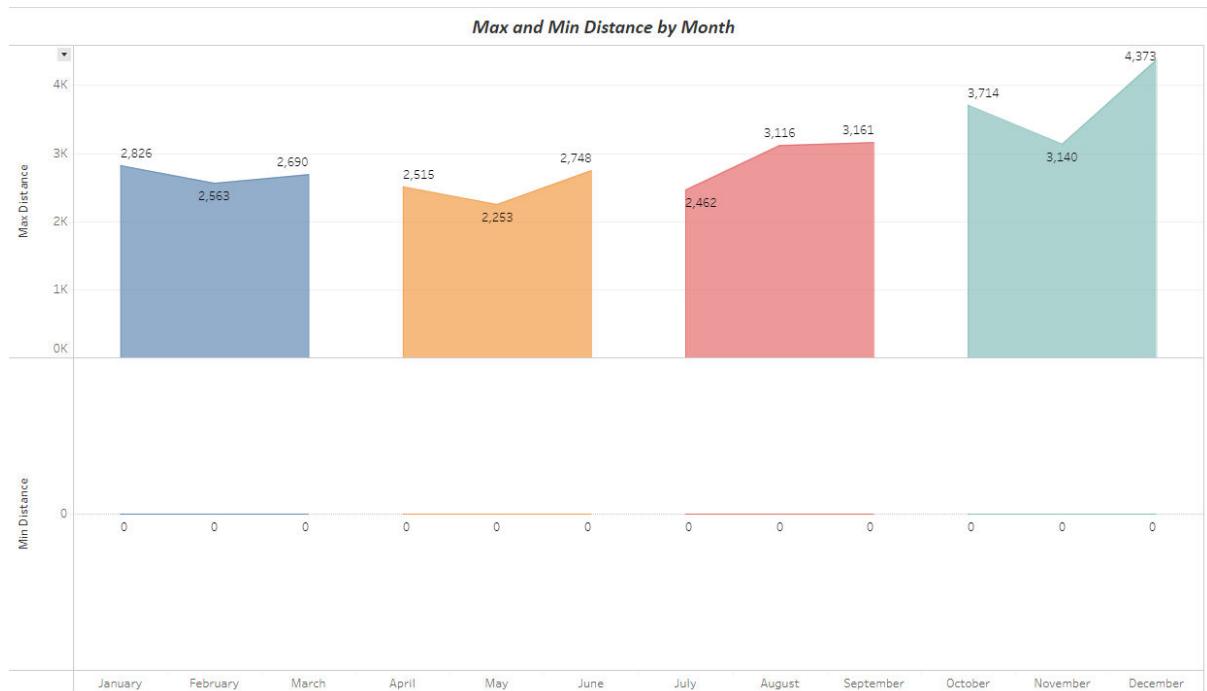
```

SELECT
    EXTRACT(MONTH from date_AEST) AS month,
    round(AVG(calories)) as avg_calories,
    Round(AVG(distance))AS avg_distance,
    round(MAX(calories)) as max_calories,
    Round(MAX(distance))AS max_distance,
    round(MIN(calories)) as min_calories,
    Round(MIN(distance))AS min_distance,
    FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
    WHERE date_AEST BETWEEN '2021-01-01' AND '2021-12-30'
    GROUP BY month
    ORDER BY month;

```

**Monthly Calories and Distance Report - All Users
(Average, MAX and MIN)**

Month of d..	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0



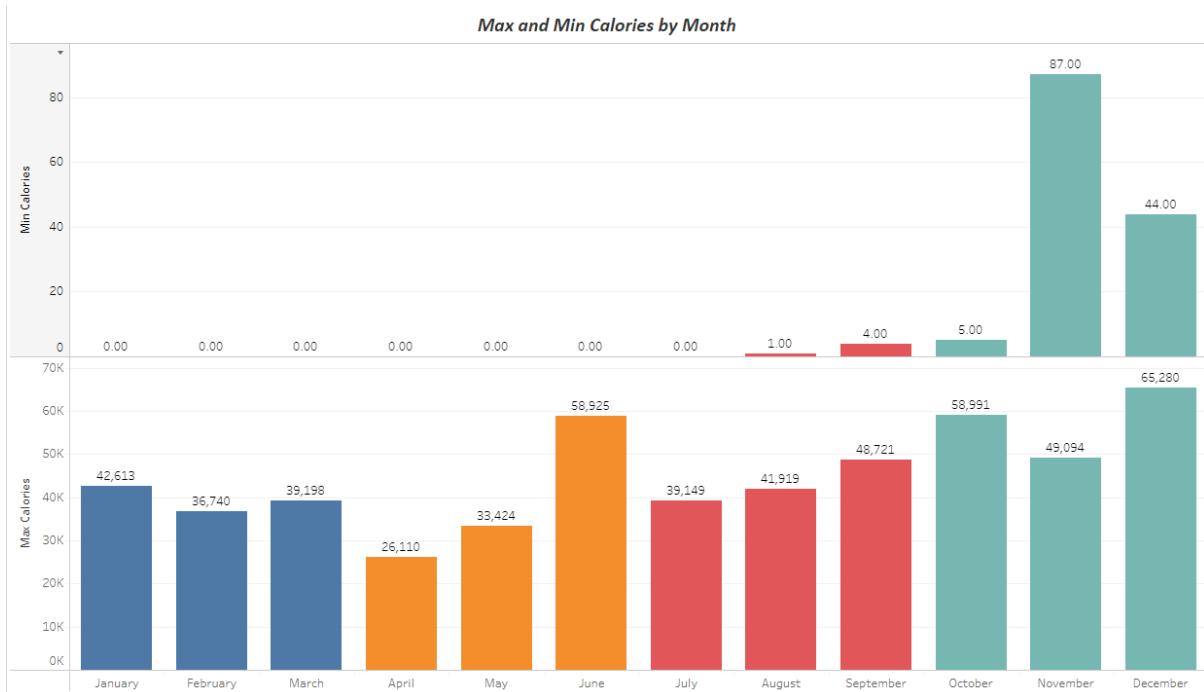


Tableau Dashboard - Monthly Calories and Distance Report

All Users (Average, MAX and MIN)



Summary Cycling Tracking 2021

Monthly Totals for each user:

The below query would calculate the Monthly total distance in KM, total calories and the total hours, for each users in 2021,

Calculation For User U1000000

```
SELECT EXTRACT(MONTH from date_AEST) AS month,
ROUND(SUM(calories)/4.18) AS total_calories,
Round(SUM(distance)/1000) AS total_distance,
ROUND(count(date_AEST)/4663) AS total_hour
```

```

FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE userID = "U1000000"
    and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
    and date_AEST
GROUP BY month
ORDER BY month;

```

month	total_calories	total_distance	total_hour
3	4050.0	136.0	13.0
4	4619.0	140.0	15.0
5	2429.0	92.0	14.0
6	9950.0	313.0	23.0
7	13220.0	362.0	23.0
8	5389.0	157.0	18.0
9	3920.0	124.0	15.0
10	7730.0	241.0	16.0
11	4264.0	133.0	14.0
12	13828.0	402.0	26.0

Total Calories - By Day

Day of Dates	Dates										
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..	
1		755	179	55	1,195	122	284			214	
2			33	461	293	540	268		651		
3		269		84	417			1,098			
4		114		159			276			69	
5				294			288		67		
6		292		219	313			113			
7			795		29		308		270		
8					29	633	93	2,172			
9					530	161			288		
10	818				461		1,095		434		
11					2,488					631	
12	28	146		130	234		172	99			
13				1,962		553	114	186		140	
14	910		1	170		154	200				
15	10			327	5,461	182	27				
16	351	118	297			190				678	
17		1,407			788					1,976	
18	107					184	73				
19	490		28	984		165		359			
20	9		48	2,308					358		
21			351		950	554			27	593	
22		2	19	299		773	60	320	159	581	
23					215		300		284		
24		1,335					179	1,126	888	410	
25								179	563		
26	833	16			570	125		72		820	
27		27	320	830	35	342	184			3,106	
28		26		355		571		481	131	1,769	
29		46	202				67			1,694	
30		14	65		524				144	1,146	
31		481		157			74		1,525		

Calculation For User U1000007

```

SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18)      AS total_calories,
       Round(SUM(distance)/1000)      AS total_distance,
       ROUND(count(date_AEST)/4663)   AS total_hour
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE userID = "U1000007"
    and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'

```

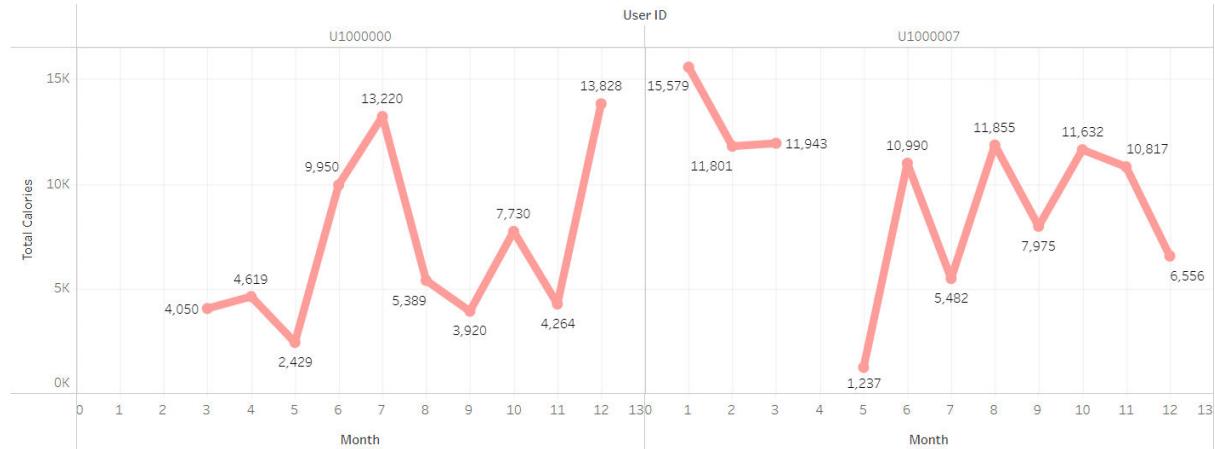
```

and date_AEST
GROUP BY month
ORDER BY month;

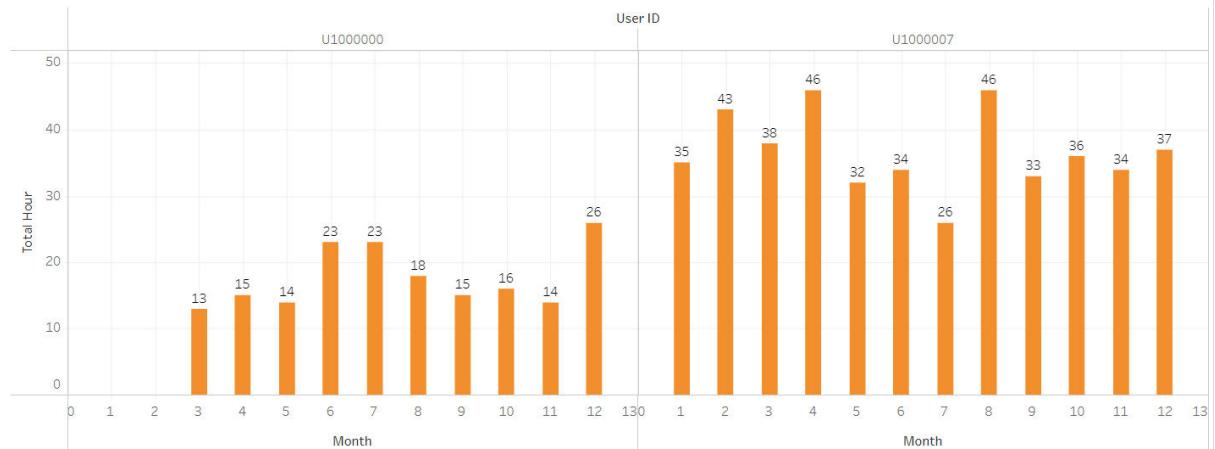
```

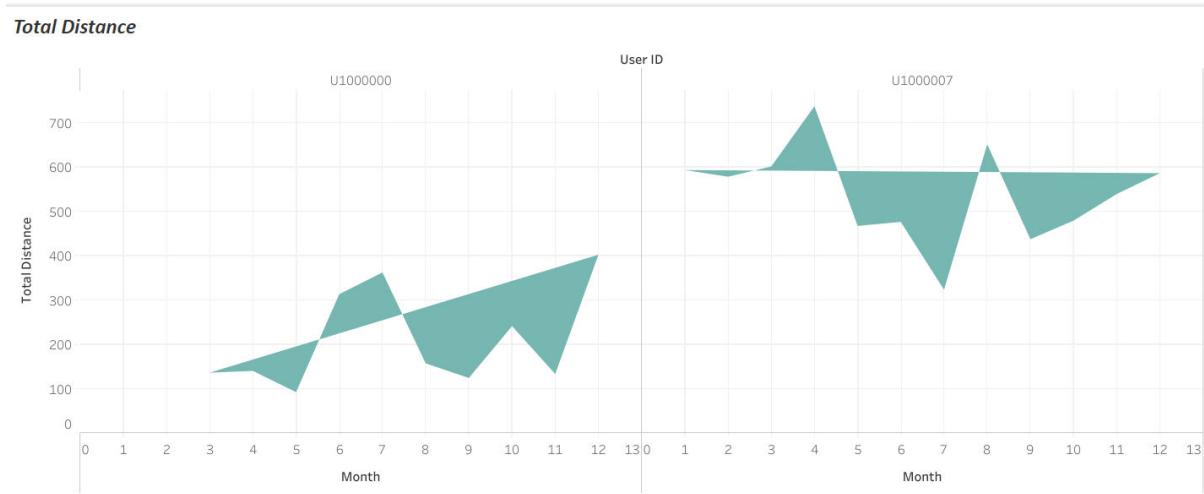
month	total_calories	total_distance	total_hour
1	15579.0	593.0	35.0
2	11801.0	578.0	43.0
3	11943.0	601.0	38.0
4	null	737.0	46.0
5	1237.0	467.0	32.0
6	10990.0	476.0	34.0
7	5482.0	323.0	26.0
8	11855.0	651.0	46.0
9	7975.0	437.0	33.0
10	11632.0	479.0	36.0
11	10817.0	539.0	34.0
12	6556.0	586.0	37.0

Total Calories



Total Hours





Daily Total Report for each user:

The below query would calculate the total distance in KM and total calories for each day of the year 2021:

For user **U1000000**

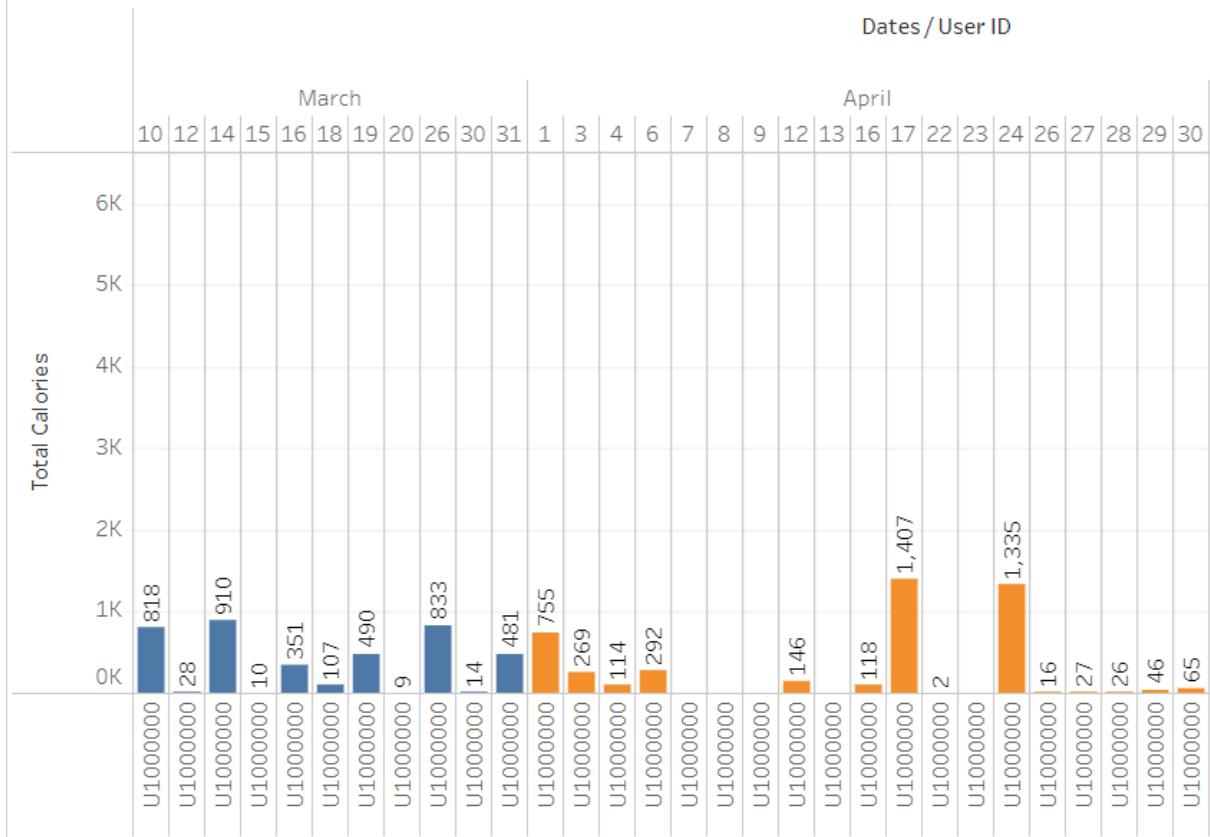
```
SELECT userID,
       date_AEST AS dates,
       ROUND(SUM(calories/4.18)) AS total_calories,
       Round(SUM(distance/1000))      AS total_distance
  FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
 WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31)
       AND userID = 'U1000000'
 GROUP BY date_AEST, userID
 ORDER BY date_AEST
```

Row	userID	dates	total_calories	total_distance
1	U1000000	2021-03-10	818.0	26.0
2	U1000000	2021-03-12	28.0	1.0
3	U1000000	2021-03-14	910.0	31.0
4	U1000000	2021-03-15	10.0	0.0
5	U1000000	2021-03-16	351.0	10.0
6	U1000000	2021-03-18	107.0	3.0
7	U1000000	2021-03-19	490.0	19.0
8	U1000000	2021-03-20	9.0	0.0
9	U1000000	2021-03-26	833.0	26.0
10	U1000000	2021-03-30	14.0	0.0
11	U1000000	2021-03-31	481.0	17.0
12	U1000000	2021-04-01	755.0	25.0
13	U1000000	2021-04-03	269.0	7.0
14	U1000000	2021-04-04	114.0	3.0
15	U1000000	2021-04-06	292.0	9.0

Total Calories - By Day

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268			651		
3		269		84	417				1,098			
4		114		159			276				69	
5				294			288			67		
6		292		219	313			113				
7			795		29		308		270			
8					29	633	93	2,172				
9					530	161			288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186			140	
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190					678	
17		1,407		788							1,976	
18	107					184	73					
19	490		28	984		165		359				
20	9		48	2,308						358		
21			351		950	554				27	593	
22		2	19	299		773	60	320		159	581	
23					215		300			284		
24		1,335					179	1,126		888	410	
25							179			179	563	
26	833	16			570	125		72			820	
27		27	320	830	35	342	184				3,106	
28		26				571		481		131	1,769	
29		46	202	355							1,694	
30	14	65		524		67				144	1,146	
31		481		157		74		1,525				

Total Calories By Day



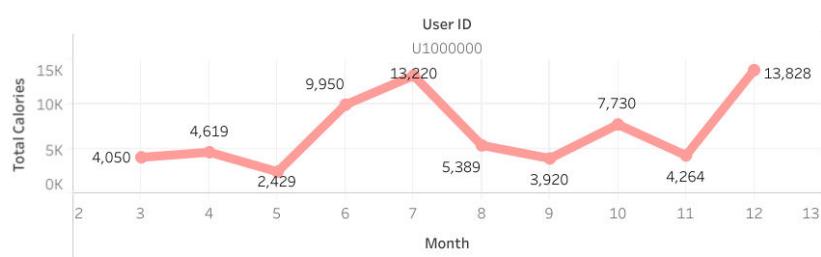
Created the following Summary Tracking Dashboards using Tableu:

Monthly Total – for User1 and User7

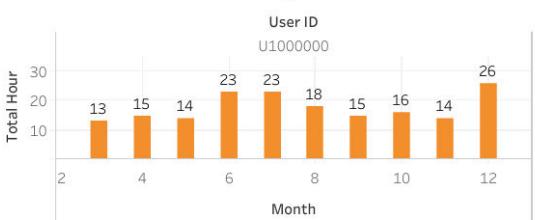
Summary Tracking 2021 - User U000000

Month of Dates	Total Calories	Total Distance
March	4,051	133
April	4,618	138
May	2,430	93
June	9,949	312
July	13,220	360
August	5,390	157
September	3,921	124
October	7,730	239
November	4,264	133
December	13,827	402

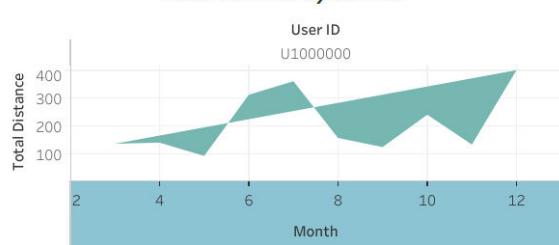
Total Calories by Month



Total Hours by Month



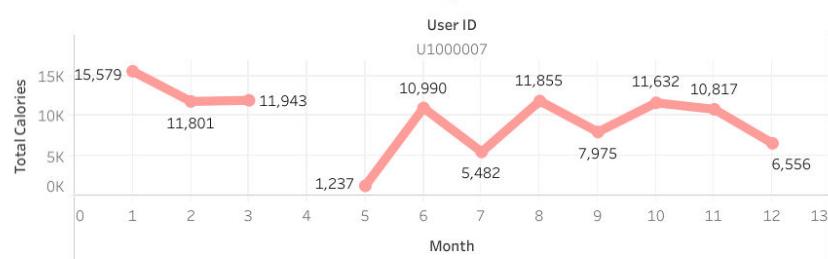
Total Distance by Month



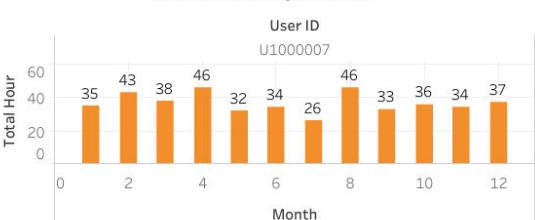
Tracking Summary Report 2021 - User U0000007

Month of D..	Total C..	Total Di..
January	15,580	590
February	11,802	577
March	11,942	602
April	739	
May	1,237	465
June	10,989	476
July	5,482	324
August	11,854	652
September	7,977	439
October	11,631	481
November	10,818	541
December	6,666	505

Total Calories by Month



Total Hours by Month



Total Distance by Month



The below query would calculate the Monthly Average distance (KM) and calories for each user – in year 2021:

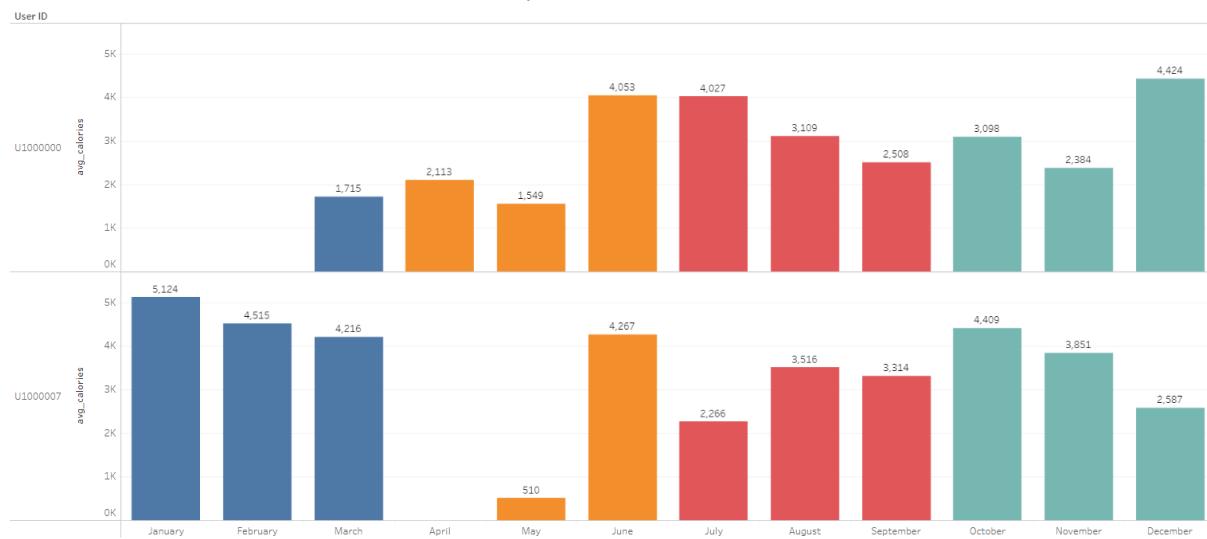
```

select userID, EXTRACT(MONTH from date_AEST) AS month, round(AVG(calories)) as avg_calories, Round(AVG(distance))AS avg_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`

WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31) AND userID = 'U1000000'

GROUP BY month, userID
ORDER BY month;
    
```

AVG Calories by Month - User U1000007 and U1000000



AVG Distance by Month - User U1000007 and U1000000

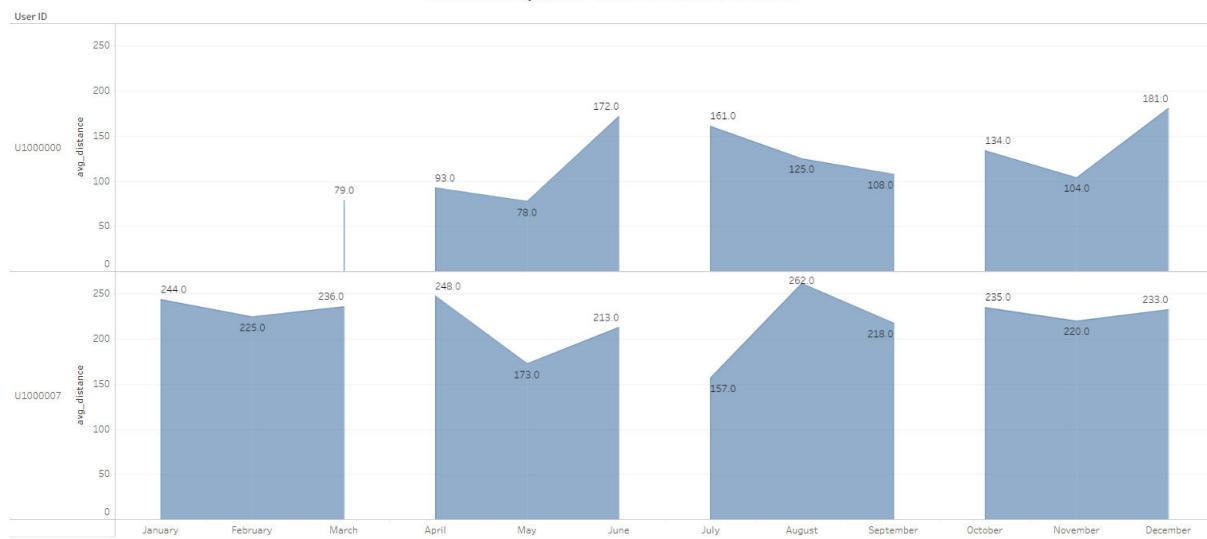


Tableau Dashboard – Monthly report

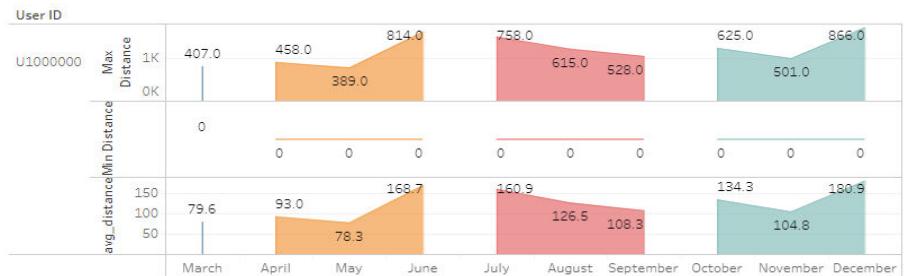
(Avg, Max, Min) – U000000

Max, Min, and Avg Monthly Report 2021 - U000000

Monthly Calories and Distance Report - U1000000
 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
March	1,715	80	8,962	407	0	0
April	2,113	93	10,235	458	0	0
May	1,549	78	7,527	389	0	0
June	4,053	169	19,276	814	0	0
July	4,027	161	18,668	758	0	0
August	3,109	127	15,411	615	1	0
September	2,508	108	12,522	528	0	0
October	3,098	134	14,147	625	0	0
November	2,384	105	11,401	501	0	0
December	4,424	181	20,751	866	0	0

Max, Min and Avg Distance Report by Month (U000000)



Monthly Calorify Report (Max, Min and Avg) - U000007

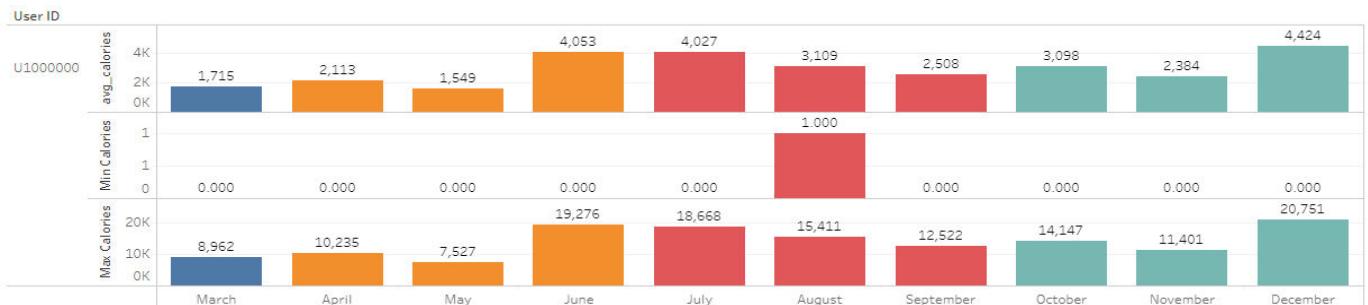


Tableau Dashboard – Monthly report

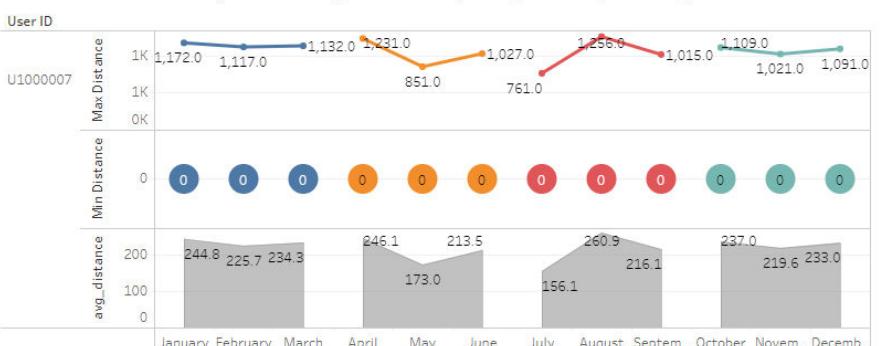
(Avg, Max, Min) – U000007

Max, Min, and Avg Monthly Report 2021 - U000007

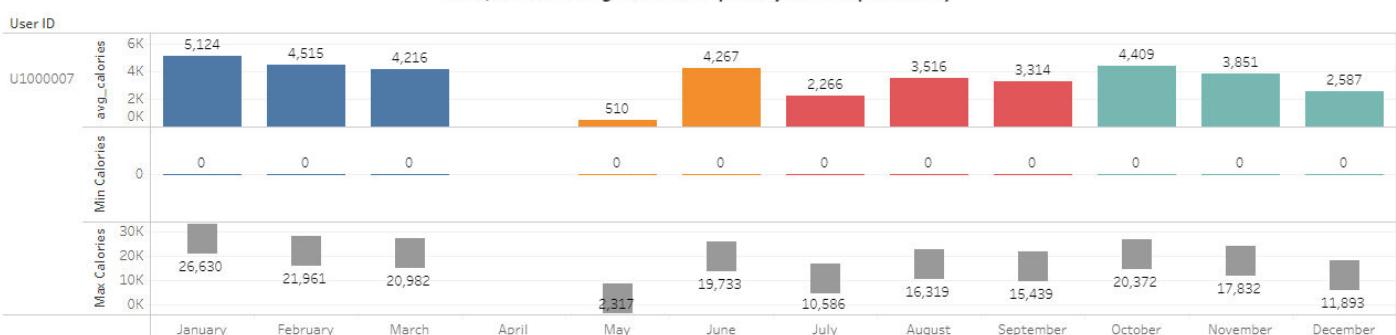
Monthly Calories and Distance Report - U1000007
 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	5,124	245	26,630	1,172	0	0
February	4,515	226	21,961	1,117	0	0
March	4,216	234	20,982	1,132	0	0
April	246	173	2,317	851	0	0
May	510	173	2,317	851	0	0
June	4,267	213	19,733	1,027	0	0
July	2,266	156	10,586	761	0	0
August	3,516	261	16,319	1,256	0	0
September	3,314	216	15,439	1,015	0	0
October	4,409	237	20,372	1,109	0	0
November	3,851	220	17,832	1,021	0	0
December	2,587	233	11,893	1,091	0	0

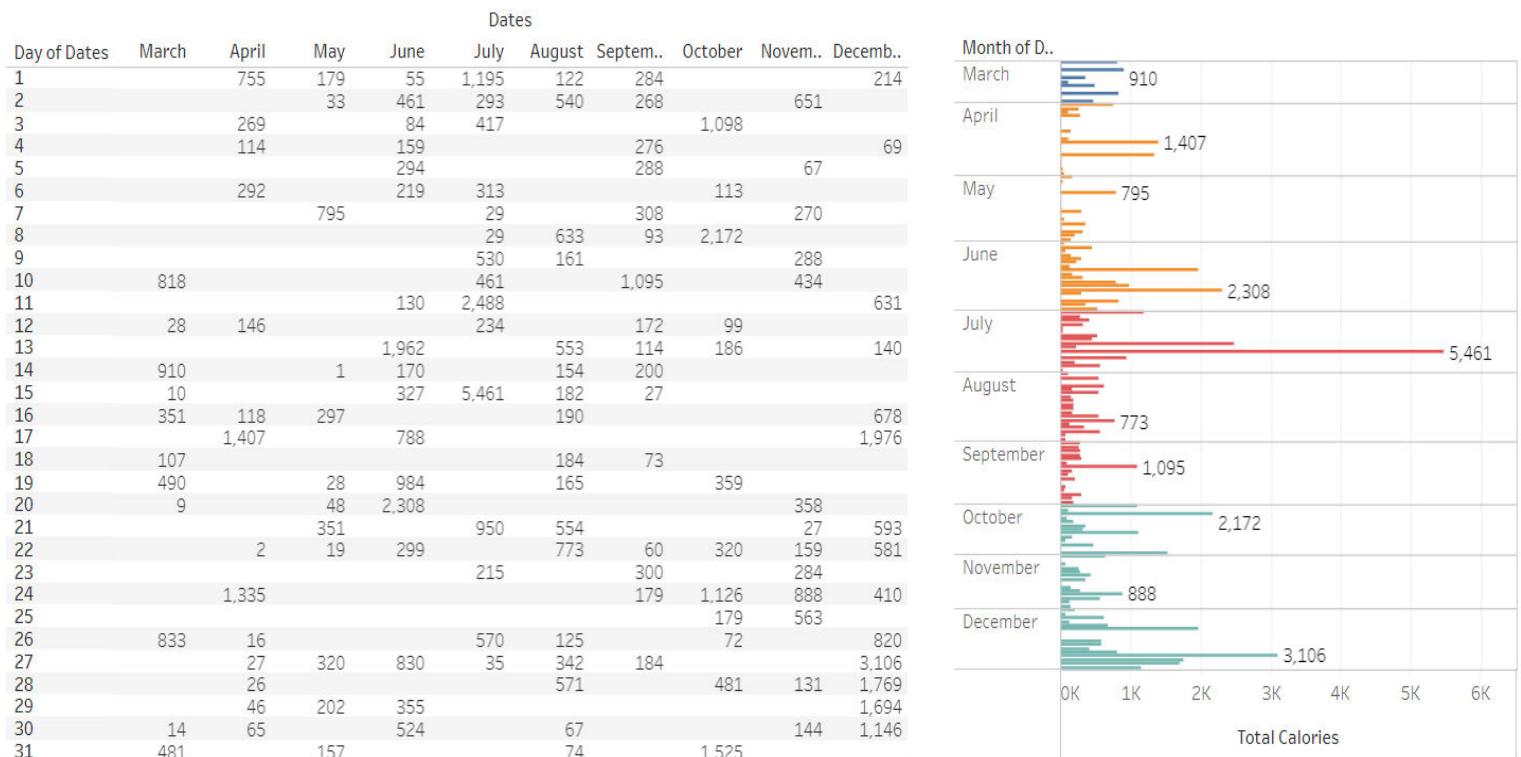
Max, Min and Avg Distance Report by Month (U000007)



Max, Min and Avg Calories Report by Month (U000007)



Daily Calorie Tracking 2021 - User U000000



Daily Calorie Tracking 2021 - User U000007



[Link to GitHub](#)

Participated in IOT Projects

In IOT team, my technical participation was applied mostly in the shape of a project manager, as below:

- Planned features and goals based on the project's status, time and our team capabilities,
- Sprint planning, task assigning and setting the deadlines

- Tracking closely the work flow to make sure that all deadlines are met,
- Suggested possible solutions when team faced any problems,
- Monitored the problem solving process closely and stepped in when needed
- Provided 1:1 support to make sure everyone are in the right track

Here is some example of my technical participation in IOT:

1- Remote access to the PI

- o Provided resources,
- Tracked the task and provided feedback
- Asked William to create an instruction document and include all the links and steps needs to be taken to get remote access to the PI

2- Workout Projects

At the start of this Trimester, it was only one workout (Ramp) implemented which was controlled by the APP, I planned that we develop another three workouts as below:

- Strength
- Endurance
- Threshold

Also I suggested that all workouts should be start and end using IOT products (not the APP) to be able to showcase how they control the bike.

Which all implemented and tested using our bikes' data.

Debugging (Kickr, Fan and “All-Script”)

My participation on debugging:

- Acknowledged the issues
- Recorded them as an task and project
- Assigned each task to a member
- Suggested some possible solutions
- Sat deadlines and tracked the projects to make sure that the due dates are met

GLO2 – Communication

Communication is a key to any data science and data scientist role, as data analysis is all about conveying and understanding various complex concepts. To boost my communication skills, I took over company leadership role.

As a company leader I encourage positive communication and give everyone opportunity to be heard, ensure all team members are aligned on project goals and understand exactly what's expected of them, trying to be helpful. As I believe good communication is an important component in project management and allows projects to progress smoothly and on time.

- ❖ Organizing and running the meetings and events, creating agendas and recording the decisions.
We run regular weekly meetings to give opportunity to all members to make participation in sharing ideas, making decisions and build team relationships.

The meeting ran in Redback Operations were as below:

- Weekly leadership meetings,
- Weekly team meetings,
- Weekly meetings with Directors,

- 1:1 meetings to able people to bring their issues up to resolve
- Screenshot
- ❖ Providing support to and meeting with IOT student from “shadow program”
- ❖ Provided support, guides, suggestions and feedback to leaders and students at the time they were working on the “company Reports”.
- ❖ Scheduled meeting’s time based on everyone’s availability and encouraged attendance to the meetings
Evidences: [EV002 Screenshot](#)s of meetings Link to MS Team [Meetind Agenda](#) Folder
[Meeting Notes](#)

- Kept track of all projects’ progress and teams’ workflow through our weekly leadership meeting to establish report, to pass it to the directors in our weekly meetings

Evidence: [Screenshots](#)

- ❖ Encouraged everyone to bring up the problems they are facing to (through 1:1 meetings or direct texts) to seek for the solutions and support

GLO3 - Digital literacy

To Promote Tech Literacy in the Redback company, I encouraged everyone to get familiar with the required tools and coding languages which were utilized by the company, to be able to collaborate efficiently.

Below shows my participation to Promote Tech Literacy in the Redback company,

- Encouraged up-skilling and learn about company through following resources
 - Studied through the handover document,
 - Conducted meetings with leaders, unit chairs, Capstone support staff and directors
 - Learned through the GitHub
 - Went through resources accessible in the Team Chat channels
 - Referred to the last Trimester Trello boards
- Locate the stored projects, resources and collected data and shared with other members based on their project’s requirements
- Created step by step instruction about updating the local cloned codes from GitHub and shared it into the Ms Team
[How to update your local cloned file](#)
- Created an introduction about our data pipeline and data dictionary, and shared into Ms Team
[Link to access to the files though Ms Team](#)
- Introduction to CMS created and placed in Ms Team
[Link to the File](#)
- An step by step instruction about “How to access the GCP project” created and placed in the Ms Team and also shared in chat channels
[Link to the file](#)
- Also I up-skilled myself and learned about the following tools:
 - ❖ GitHub

- ❖ Trello boards
- ❖ MS Team
- ❖ Google Cloud Platform
- ❖ Data Pipeline

We utilize Contact Management System (CMS) pipeline. There is a Raspberry Pi in place which gets the data through the Bluetooth from bike's sensor (Wahoo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app

The protocol used for this data transport is MQTT.

So to be able to understand all this process I up killed myself in:

- MQTT Protocol and use of it in IOT
- Basics of writing shell scripts to be able run the current scripts in the pi
- Learnt about Wahoo sensors and FIT files
- I will be working on upskilling myself in Python programming on Raspberry Pi

GLO4 - Critical thinking

Critical thinking means sorting details to come up with a big-picture perspective of the status of the projects and products to identify the existing problems and analyse each products' requirements to be able to plan the solutions and develop strategies.

In order to be able to perform company leadership duties efficiently, and planning and monitoring the company's projects, the first step was to learn about the company's objective and the status of each team's projects,

In regards to my study through the handover document and meeting with the ex-company leader, the status of the projects in the company was as described in task 5.1 as below:

IOT Team:

In tri3 2022, IOT just consolidated the implemented projects , means no features or products has been implemented or developed, so I decided we focus on Implementing the features that were already placed in the handover document as well as our new IOT projects,

To find out about the situation of the existing IOT projects, I did a deep study about the current project's problems through handover document, also I headed to the lab to be able to run and test the scripts and try out the Raspberry Pi and other hardware,

After Reviewed and Evaluated the status of the IOT projects and products by referring to the available resources, I Identified the following problems and issues and suggested the possible solutions

1- Bugs and Issues

- The KICKR wouldn't start, after running the script,
- The Heart rate, seemed to be publishing for a few second, and then stopped working,
(On process)
- The Fan would keep publishing data,(even when it is off, still it would publish 0s,

My participation on debugging:

- Acknowledged the issues
- Recorded them as an task and project
- Assigned each task to a member
- Suggested some possible solutions
- Set deadlines and tracked the projects to make sure that the due dates are met

Below are some advised solutions:

Fan Bug

As the fan was dependent on the Unity game engine connections and also the heart-rate monitor, an also as the VR game or Mobile application was not connected to the fan, I advised that we use the kickr's data values to control/adjust the Fan's operation for changing the values.

This project is implemented, and now the Kicker data, controls the fan's speed, meaning if the user pedal faster, the fan's speed also increases.

There's four settings on the fan itself. From zero to 20 to 40 to 60 to 80 , and then, so the Max speed that we could get out of the bike is any range between zero and 20.

So we divided that speed to 4 range, and then just normalize it and that way to get accurate output from the fan. Meaning if the speed is between 0 to 5, then the fan speed will be between 0 to 20 and so on...

'Start All' script project

To get the bike start working, we were required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needed to be executed individually,

So I advised to developing a single .sh script which ables us to start all the .sh, which now implemented

Remote access to PI

- Sorted out remote access to Rpi

- I searched up and the following solution was found and passed to IOT team, to be implemented:
To connect remotely, SSH and VNC must be activated on Raspberry Pi. Click on the main menu and choose Preferences > Raspberry Pi Configuration. Choose the Interfaces tab and set both SSH and VNC to Enabled. The VNC icon appears in the menu bar
- Also I conducted another research on application we could use for our remote access and shared the result with IOT team (specifically William) to use the ada.deakin.edu.au link to search up about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling studengts to use select Deakin software from anywhere.

Research on application to setup remote access for Raspberry Pi

But finally the IOT team member came up with using VPN to get remote access to the PI, which is running successfully,

The only problem is that whenever the PI unplugged, the IP would change which make it impossible to use the VPN to get access to the pi, when we don't have the new ip address, to solve that I suggested to assign a static IP to the PI and assign this task to Ethan,

But after some research and study and also contacting to the IT support (done by Ethan), he advised that it's not possible and he worked on developing a Telegram bot that sends messages when the IP changes. The scripts are all completed and tested on a personal Pi by Ethan, but as the Deakin firewall blocks the Telegram API, the project is now on paused and needs to be followed up.

Evidence: [Link to Trello Board](#)

VR Team:

At the end of Tri32022 the work in the VR game was not implemented into the main branch, as they changed the game a bit last trimester to make it side scrolling rather than first person.

This Trimester also we couldn't locate the latest version and the existing version had so much problem and collision bugs, so I suggested that VR team start implement the following features:

- New environment (implemented city)
- Environment selection, so the user is able to select between environments to play on
- Bike selection, the user is able to select between two bicycles to play on
- Created End trigger for the game to finish
- Created timer

Mobile Team

Responsivness

After reading through "Open Issues" in handover doc- page 83 and checking the designed screens, I realized that they are not responsive (didn't get fit to the screens) when different mobile's brands were chosen.

So I asked Mobile team to focus on **App responsivness** as one of their main plans for this trimester.

My participation in this project:

Identified the problem

Created a pdf file and included "open issues" and "Road map" for Mobile team as resource to refer to

Fire Base implementation

Suggested to Implement Fire base to the frontend and backend. This project is completed.

Web-Design team

1- Integrating the CMS pages into the existing website

Planned projects to make the data available and accessible to other teams, This Tri we considered to create a projects aiming to "Available the Data to Teams/Users" by integrating the CMS pages into the existing website, with login authentication protecting it.

Also conducted a research about CMS and How to display the contents of a CMS through website using API as below:

Contact Management System (CMS)

A **content management system (CMS)** is an application that is used to manage content, allowing multiple contributors to create, edit and publish. Content in a CMS is typically stored in a database and displayed in a presentation layer based on a set of templates like a website.

A CMS is typically used for enterprise content management (ECM) and web content management (WCM).

ECM typically supports multiple users in a collaborative environment by integrating document management, digital asset management, and record retention.

Alternatively, WCM is the collaborative authoring for websites and may include text and embed graphics, photos, video, audio, maps, and program code that display content and interact with the user.

ECM typically includes a WCM function.

Installation type

There are two types of CMS installation: on-premises and cloud-based. On-premises installation means that the CMS software can be installed on the server. This approach is usually taken by businesses that want flexibility in their setup. Notable CMSs which can be installed on-premises are Wordpress.org, Drupal, Joomla, ModX and others.

The cloud-based CMS is hosted on the vendor environment. With this approach, the CMS software cannot be modified for the customer. Examples of notable cloud-based CMSs are SquareSpace, Contentful, Wordpress.com, Webflow, Ghost and WIX.

What is the best database for CMS?

MongoDB is particularly well-suited to support your CMS efforts because the software offers: A flexible data model means that you can incorporate any kind of data into your CMS, regardless of the source. This flexible model also lets you make frequent updates to the database without downtime to your application.

What is the difference between CMS and database?

A CMS, strictly speaking, is a Content Management System, typically used for serving up web pages (SharePoint and other document repositories notwithstanding). An RDBMS is a Relational Database Management System. CMSs usually reside within an RDBMS.

How to display the contents of a CMS through website using API

An API , short for Application Programming Interface, is a protocol that enables two pieces of software to communicate with one another: plug one application into another via an API, and they're suddenly able to cooperate. By providing a shared language they can agree on, an API allows totally different apps to work in harmony, even if they're on different servers, in different programming languages, in different parts of the world.

Think of an API like an outlet on your wall. Except instead of providing electricity to appliances you plug into it, an API provides data to applications you plug into it.

By serving data from one application to another, APIs connect the world of software and enable companies and applications to coordinate across multiple domains.

API-first CMSes and content platforms make this possible. With Content APIs you're no longer tethered to a single, monolithic CMS architecture. Your back end can become an extensible, powerful application in its own right, and you can adapt and scale your business at will. You could serve content as data, so it could be consumed by unlimited front ends and custom applications. If that were your back end, you would be free to fashion your digital presence into anything you wanted, and scale it without a headache.

GLO5 - Problem solving

During working with Redback as the company leader and also as a team member, I faced lots of challenges and issues which made me to work on seeking and applying a solution for the occurred problems, which leaded to improve and brush up a wide range of problem solving skills such as Team-building, Research, Communication, Decision making and Creativity,

Below are some example:

- ❖ After a few team meeting that the VR team leader failed to attend, and after checking the GitHub and Trello I realized that they haven't pushed any codes or update. So I started to send the leader some text to find out about the issues, but as I didn't receive any response back I posted to their channel for an urgent team meeting and asked for everyone attendance,

At the meeting I realized they even didn't have access to the latest project version and some of the members even didn't have any technical tasks assigned to.

I found out three of the members were so knowledgeable and capable and the other two were happy to accept technical tasks and were willing to conduct some upskilling to complete their task,

But as there were some key problems as below which were not solved, and made the team to pause their project

- *Lake of communication*
- *Lake of resources*
- *Lake of study and understand the project status*
- *Not having any plan or feature*
- *Looking at the wrong place to locate the projects*

What I done to solve the problem:

- *I shared the handover doc and encouraged everyone to look through it,*
- *Conducted some study through the handover doc and realized that the latest project version is accessible in SCM, not GitHub and shared the result with VR team*
- *Shared the Trello board link*
- *Sat access to the SCM for members*
 - *Based on the time and team's capabilities, features planned and tasks assigned*
 - *Sat deadline*
 - *As the VR team didn't have knowledge about how to use SCM, so I decided to extend their repo storage in Github, as there was not enough time for them for upskilling on this*
 - *Ran several meeting and tracked the work flow closely and made sure that all deadlines were met*

As the result, VR team was able to successfully implement all the planned features as below;

- *New environment (implemented city)*
 - *Environment selection, so the user is able to select between environments to play on*
 - *Bike selection, the user is able to select between two bicycles to play on*
 - *Created End trigger for the game to finish*
 - *Created timer*
- ❖ *There were lots of questions about how to update the local cloned file from the GitHub, so I created an instruction and placed it into the MS Team*

[Link to Ms Team](#)

- ❖ ***On week five I was notified by one of the Cyber team members(Nasim) that their team leader does not response to any messages and she didn't have access to Trello and Github yet,***

How I acted on this issue:

- *Made changes to hierarchical structure, and Nasim and Catiline were assigned as team leader*
- *Organised an urgent meeting with all Cyber project leaders to discuss over the projects' process*
- *Sorted out the cyber team access to the Github and Trello*
- *Guided Nasim how to apply for GCP for Cyber team and walked her through the GCP application form*
- *Assist Nasim and Jikuan to learn how to create cards and tasks in Trello boards*
- *The following tasks assigned to the project leaders to take action on them urgently*
 - *Organising a meeting with their project's members*
 - *Scoping their projects*
 - *Task assigning to their members*
 - *Clear the tasks for junior students*
 - *Provide assistance about how to use GitHub to junior students*

Evidence: [Screenshots](#)

GLO6 - Self-management

As self-management is an important leadership quality, so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as bellow:

- Evaluating my technical and leadership knowledge and skills and putting a lot of effort into up-skilling and researches
- Performing a remarkable planning and organizational skills
- Working independently and seeking for support and advice when required to ensure of being on right track
- Outline project goals, based on the status of the projects and the member's capabilities
- Stress management
- Time management
- Creating to-do list and strict deadlines for team members and myself
- Evaluating self- progress toward the goals
- Using the provided feedback to improve my progress
- Adaptability and Decision making (Specifically modifying the tasks and plans to make them achievable)
- Using Trello as the project management tool to keep track on company progress

GLO7 - Teamwork

I believe collaborative problem solving leads to better outcomes. In Redback company, we all work as a team through projects, and it would enables team members to share ideas and responsibilities and knowledge, which helps reduce stress on everyone. As the company leader, I encourage everybody participation in projects progress. Here is some tips that we have in place to improve and achieve effective team working among employees, - Roles and responsibilities are clearly defined to every team members, - Having regularly meetings, -Everyone are participated in planning and task assigning, - Encourage respectful and effective communication, - Provide the team with learning and researching resources. - Provide assistance and support to each another,

- ❖ Conducting recruitment and on-boarding process,

Evidence: [Screenshots](#)

[Link to "Recruitment Rresentation" File](#)

- ❖ Organised the teams and established the leadership

Evidence: [Link to On-Boarding members list](#)

- ❖ Members were to work relatively independently and I just monitored and guided when they brought issues up to resolve

Here are some actions that I take to achieve this goal:

- Arranged several meetings to providing guidance and support to VR team, to make them able to implement their project,

The following are some example of providing feedback, instructions and solutions to the team members:

- How and where to locate the last version of the Sun cycle project,
- Identified the project problems and plan new achievable goals and features based on the time and team members' capabilities
- Task assigning to the members,
- Made sure everyone has a technical task to participate,
- Set deadlines for each tasks and closely monitored and tracked the project progress to make sure that deadlines are met,

Evidence: [Screenshots](#)

- ❖ Provided guidance to the team members with their Capstone tasks
- ❖ Organized the company presentation for both Juniors and Seniors
 - Designed the presentation PowerPoint slides
 - Assigned and organised student to present their team
 - Encouraged everyone to participate in creating the slides and also running the presentation

[Evidence: Company presentation](#)

- ❖ Provided support, resources, feedback, suggestion, solution and guideness through meetings and 1:1 catch up sessions, while stablished the following reports,
 - Company objective and structure report
 - Sprit planning
 - Company progress report
 - Handover document

[Evidence: Feedbacks and Guidness on Completeing the Team Repots](#)

[Link To “company structure report” in MS T](#)

[Screenshots](#)

[Link to progress report in MS Team](#)

- ❖ Created work log for IOT team and provided other teams with a sample to use in their teams.

Evidence: [Link to “IOT worklog” File](#)

[Screenshots](#)

- ❖ Set up access for teams to their required tools and platforms as below:

Evidence: [Screenshots](#)

- ❖ Providing the required links, templates, work logs and documents to the members

Evidence: [Screenshots](#)

- ❖ Assist the following teams with their project scoping and assigned task to everyone

IOT team

VR team

Cyber team

- ❖ Supporting leaders to develop projects, goals and plans for the Trimester,

GLO8 - Global citizenship

As we have some of our team members living out of Australia, I took the following actions to be able solve the issues they faced to:

- Sorted out remote access to Rpi

• I searched up and the following solution was found and passed to IOT team, to be implemented:

To connect remotely, SSH and VNC must be activated on Raspberry Pi. Click on the main menu and choose Preferences > Raspberry Pi Configuration. Choose the Interfaces tab and set both SSH and VNC to Enabled. The VNC icon appears in the menu bar

- *Also I conducted another research on application we could use for our remote access and shared the result with IOT team (specifically William) to use the ada.deakin.edu.au link to search up about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling students to use select Deakin software from anywhere.*

Research on application to setup remote access for Raspberry Pi

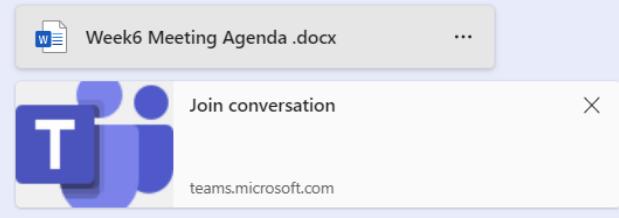
- Organized meeting times to address everyone availabilities,

Evidence: [Screenshots](#)

Evidences:

Screenshots of Meetings

4/19 2:44 PM
Good afternoon Everyone
Here is the link and agenda for our today's meeting at 8:00 pm,
IMPORTANT: Tonight it will be a discussion over task 6.1 "Company progress report", so I would like you all to attend the meeting,
If you are not able to make it, please assign another team member to attend on behalf of your team,
Regards,
Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMtMjI3Mi00ZDc5LThlZjAtMzZkOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



The screenshot shows a Microsoft Teams message window. At the top, there is a file attachment for "Week6 Meeting Agenda .docx". Below the attachment, there is a "Join conversation" button with the Microsoft Teams logo. To the right of the button is a close button (X). At the bottom right of the message area, there is a small circular icon with a flame symbol and the number "1", indicating one unread message.

4/20 8:59 AM

Morning Everyone

Here is the agenda and the link to our today meeting with the company directors,

Below is the time slots assigned to each team (just in case you are not able to make the whole meeting session)

1:00 – 1:10 Talk about the company overall

1:10 – 1:15 IOT team,

1:15 – 1:25 Web-Design Team

1:25 – 1:35 Data/AI team

1:35 – 1:40 VR Team

1:40 – 1:45 Dev/Ops Team

1:45 – 1:50 Cyber Team

1:50 – 1:55 Mobile Team

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



Week6 Meeting Agenda (1).docx

...



Join conversation

X

teams.microsoft.com

4/27 4:44 AM

Morning Everyone

Here is the agenda and the link to our today's meeting with the company directors at 1:00 pm,

Unfortunately, I'm not able to make it, so AVINASH MAURYA will be running the meeting,

Below is the time slots assigned to each team (just in case you are not able to make the whole meeting session)

1:00 – 1:15 Talk about the company overall

1:15 – 1:25 Web-Design Team

1:25 – 1:35 Data/AI team

1:35 – 1:40 VR Team

1:40 – 1:45 Dev/Ops Team

1:45 – 1:50 Cyber Team

1:50 – 1:55 Mobile Team

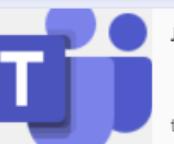
Regards,

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



Week7 Meeting Agenda .docx

...



Join conversation

X

1

Thursday 11:08 AM

Morning Everyone

Here is the link and Agenda for our meeting with directors at 1:00 pm

Meeting Agenda:

- Project progress
- Final company Presentation and showcases
- Handover document

Regards,

Ella

1:00 – 1:10 Talk about the company overall

1:10 – 1:15 IOT team,

1:15 – 1:25 Web-Design Team

1:25 – 1:35 Data/AI team

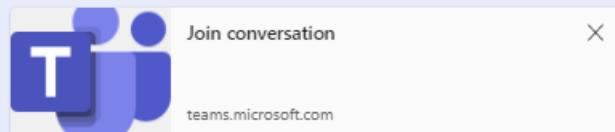
1:35 – 1:40 VR Team

1:40 – 1:45 Dev/Ops Team

1:45 – 1:50 Cyber Team

1:50 – 1:55 Mobile Team https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Join conversation



1

5/4 8:15 AM

Morning Everyone

Here is the agenda and the link to our today meeting with the company directors,

Below is the time slots assigned to each team (just in case you are not able to make the whole meeting session)

1:00 – 1:10 Talk about the company overall

1:10 – 1:15 IOT team,

1:15 – 1:25 Web-Design Team

1:25 – 1:35 Data/AI team

1:35 – 1:40 VR Team

1:40 – 1:45 Dev/Ops Team

1:45 – 1:50 Cyber Team

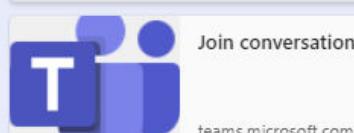
1:50 – 1:55 Mobile Team

Regards,Ella

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Week8 Meeting Agenda .docx

...



General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ

Reply

ELLA KARIMI ZARANDI 3/7, 1:13 PM Edited
Hi @General

I would like to invite you all for a meeting this afternoon at 4:00pm,

Meeting's Purpose:

- Get to know each other,
- Company introduction,
- Election of team leaders,

I understand, it's a late notice and you might not be able to make it, but still I appreciate your participation if you are available in that time,

All Participants: Please be advised that this meeting will be recorded for later reference. If anyone has objections to this procedure, please voice them now.

[See less](#)

Redback Operations Team Leaders Chat Files +

ELLA KARIMI ZARANDI added JARROD YONG and 5 others to the chat.

3/14 8:12 PM Edited
Hi leadership team.

I would like to schedule a 30 min meeting for tomorrow at 8:00 pm, to find out how so far u have managed to reach out to your team members and if you got a chance to make yourself familiar with your team's projects and involved tech stacks.

Also please text me your email address, so I could set up your admin access to the required tools.

Regards,
Ella

1

YIANNIS DOULGERAKIS 3/14 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

3/14 8:15 PM
YIANNIS DOULGERAKIS 3/14/2023, 8:13 PM
Hey Ella, Yianni here. Where do I see who is in my team so I can reach them. Thanks.

Hi Yiannis, I have posted the list to the General, also have placed a copy in the General files. Let me actually post it here as well

1

Also please be aware that there were some new students that has been just added into the teams this afternoon, so please check the updated file again to be sure that you are also taking care the new students as well

 Finalized members list.xlsx ...

Done, try and let me know if now u have access or not

Guys, tomorrow we have Adrian at the lab, and he is happy to walk u through the sensors, hardware, scripts and any questions u might have, I would like to run this Q/A session once, who is available to attend tomorrow 9:30 to 12:00 tomorrow?

JARROD YONG 3/22 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

3/22 10:48 AM
We also need to have another meeting to finalize the projects, as

JARROD YONG 3/22/2023, 10:48 AM
Sadly not as I have work tomorrow but let me know any of the questions answered or the questions you guys bring up

how about Monday?

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:30 AM
Morning Everyone ,
Here is the link to our tonight's meeting and the Agenda,
[week4.docx](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMtMjI3Mi00ZDc5LThlZjAtMzZkOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d) ...

[Join conversation](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMtMjI3Mi00ZDc5LThlZjAtMzZkOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d) X
teams.microsoft.com

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/30 12:14 PM
Hi Leaders, Here is the link to our today's meeting with the company's director, at 1:00pm
[Join conversation](https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKNzgtNTRhZi00ZDFILW/mZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d) X
teams.microsoft.com

3/30 1:25 PM
Redback Operations Weekly Meeting-20230330_130402-Meeting Recording.mp4
[Redback Operations Weekly Meeting-2...](#) ...
personal > ekarimizarandi_deakin_edu_au

Invited everyone to an in-person meeting

March 25, 2023

ELLA KARIMI ZARANDI 3/22, 9:14 PM Edited
Good afternoon @General,

I would like to invite everyone to an in-person meeting, where you could enjoy some food and share some fun with friends.

Also, we could take this opportunity to catch up and get to know each other.

This event will be held at 12:00 pm on April 5th at The designated Capstone space, located on the ground floor of Building T in the Burwood campus.

Everyone is encouraged to attend and enjoy the food and company.

Kindly RSVP by June 29th.

Have a great evening,

Ella Zarandi

See less

 1  1

2 replies from you and MIRIAM

[Reply](#)

Encourage attending the meetings

A Redback Operations Team Leaders Chat Files +

care of it from there

March 22

3/22 7:22 PM with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon Everyone,

Here is the link to our tomorrow meeting with our company's director,

Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X teams.microsoft.com

A Redback Operations Team Leaders Chat Files +

so far could u plz let me know what u have done to get in touch with your team? creted a chat group? collected more info? had your fisrt meeting or have organized for?

as I have meeting with comany director at 1:00pm, so I could update him,

also I would like all of u attend to these meetings from next Thursday, or even if u are available, from today

YIANNIS DOULGERAKIS 3/16 6:42 AM
Is it 1pm today the meeting?

3/16 6:43 AM with Kevin, which is the company director

YIANNIS DOULGERAKIS 3/16 6:43 AM
I'll try my best to join

So shoot me an invite please

3/16 6:45 AM
https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTJhN2ZkNzgtNTRhZi00ZDFiLWJmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 Join conversation X teams.microsoft.com

here is the link for everyone who wants to join, have a great day everyone

A Redback Operations IOT T12023 Chat Files +

3/27 4:52 PM
Week 4

Hi everyone,

Since we have finalized the projects and also each member's tasks are assigned, so everyone can start working on their deliverables for their projects for this trimester.

As a team we should have a weekly meeting to update the team about the projects' progress:

We are also required to:

- Keep a log of all meetings minutes/notes
- Keep a log of all individual contributions
- Update Trello board as we go

See you in our tomorrow meeting. If you are not able to make it, please let me know to organise a 1:1 meeting for you.

Regards,
Ella

3/27 7:36 PM
GCP Access have been granted - I'll set this up during the week.

Dear Ella,

A Redback Operations IOT T12023 Chat Files +

3/22 11:06 PM
JARROD YONG 3/22/2023, 10:27 PM

As a heads up Ella my work schedule is inconsistent so I may end up missing a few

Each meeting not taking more than 15min, now the meeting that I'm running in AI only takes 10min, they already have started the projects, but in IOT we even haven't assigned the projects yet, as no one attends the meetings.

meetings are just about catch up and updating on the project's progress, to able me to complete our weekly team reports

If these times are not working with u guys we have to allocate another time which meets everyone's availability

Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

And let me know about your availability

AHMAD RIAZ 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM

Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

I am good with this

ETHAN BENJAMIN 3/22 11:09 PM
ELLA KARIMI ZARANDI 3/22/2023, 11:08 PM

Out next meeting is on Friday 5:00 pm, plz let me know if it doesn't suit u guys

Perfect for me

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

◆ ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/21 11:20 AM
ARJODH ARJODH SINGH 3/21/2023, 11:12 AM

Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM

I would like to let you know that I have scheduled two 15 min weekly meetings, as below:

Wednesdays at 8:00 pm.

Fridays at 8:00 pm.

Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

Scheduled meeting's time based on everyone's availability

The screenshot shows two messages in a Microsoft Teams chat window.

Message 1: 3/23 11:13 AM
To meet everyone's availability we will run two meeting sessions every week as below:
Tuesdays 8pm
Fridays 5pm
All members are required to attend at least one of the meetings to give the team a heads up on your task/project progress
Regards,
Ella

Message 2: 3/16 7:54 PM
I would like to have at least two meetings before next Thursday with all leaders. (as a group or 1:1).
One meeting for this week should take place before Sunday, so my available time is as below:
For group meetings:
Tonight at 9:00 pm,
Tomorrow at 8:00 pm.
1:1 meetings: Tomorrow between 12:00 to 2:00 pm.
I would like to get your response ASAP to be able to schedule my time.
Meeting Agenda:
-Have you already got in touch with your team.(created a chat group, walked through the docs. ...)
-Access to the required tools, especially git hub, and Trello boards.
-Q/A about how to use Git hub (setting access for your team members, cloning the codes. ...)
-Q/A about how to use Trello
-Walking through handover Docs.
-Do u have any plan in your mind (think about what u would like to achieve on this Tri)
-do u need any assistance with your planning.
Also, I would like u all to add me to your team's chat group plz.
Regards,
Ella

Message 3: 3/16 7:55 PM
YANNIS DOULGERAKIS i am free tonight at 9pm

Meeting Agenda

The screenshot shows a message containing a meeting agenda table and details.

Message: 3/21 11:35 AM

MEETING AGENDA	
Date:	22/3/2023
Time:	8:00 PM

Agenda details:

1. Follow up on admin tasks:
 - Access set up to Trello boards for your team members,
 - Access set up to Github for your team members,
 - GCP access request form done?
2. week 3 – planes to achieve
 - 1. Finalize the team's projects and each member's tasks,
 - 2. Start project's processing,
 - 3. Organize member's access to Github
 - 4. Organize member's access to the required tools
 - 5. Create your Agile (Trello boards, Road map, ...)

1. Next meeting will be held on March 24t

File: MEETING AGENDA.docx

 **Iimali, Kevin**  Chat Files +

3/22 9:55 PM
Good afternoon Kevin and Iimali,
Here is the agenda for tomorrow's meeting.
Have a great evening,
Ella

 MEETING AGENDA (1).pdf ...

1 heart

March 30

3/30 11:29 AM
Morning Kevin and Iimali, Here is the agenda for our today's meeting, sorry for late submission

 RedbackWeek4.docx ...

April 2

 **2023T1 Capstone Redback Lead...**  Chat Files Onboarding Report +

4/5 1:12 PM
Good afternoon Everyone

Here is the link and Agenda for our tonight's meeting.

IMPORTANT:

If you are not able to attend the meeting, please send me a report to indicate your team's progress and workflow over last the week.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMj3Mi00ZDc5LThIZjAtMzKOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Regards,

Ella

 week5.docx ...

 Join conversation X
teams.microsoft.com

 **Redback Operations Team Leaders**  Chat Files +

care of it from there

March 22

3/22 7:22 PM
with the focus on summarising the objectives/planned deliverables.

3/22 9:52 PM Edited
Good afternoon Everyone,

Here is the link to our tomorrow meeting with our company's director.

Everyone is encouraged to attend, even if you are not able to make it, you may get someone else from your team to cover for you, as we need one member from each company to attend these meetings.

Agenda is provided below,

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTjhN2ZKnzgtNTRhZi00ZDFiWjlmZDctYjMyOTM2NTBiMDdi%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

 MEETING AGENDA.pdf ...

 Join conversation X
teams.microsoft.com

Meeting Minutes

WD WILLIAM DJOJODIREDO Chat Files Organization Activity LinkedIn +

WILLIAM DJOJODIREDO 4/4 3:25 PM
sure, what time are you available?

4/4 3:32 PM
10:00 am?

WILLIAM DJOJODIREDO 4/4 4:16 PM
ok sure
 1

April 5

WILLIAM DJOJODIREDO 4/5 9:58 AM
hey Ella, want to have the meeting now?

4/5 9:59 AM
Sure let me call u

WILLIAM DJOJODIREDO 4/5 9:59 AM
ok

4/5 10:37 AM
Minute of our meeting:
-willam to create a fork to the IOT Girhub Repo
-Willam to research the possible response that might cause the "kicke start bug@
- William to come up with some solutions for those problems
-Willan to attend to the Tusday meeting at the lab

JIKUAN LIU Chat Files Organization Activity LinkedIn +

4/5 12:40 PM
<https://trello.com/b/kj9wulDB/cyber-security>

Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...
trello.com

Transcript

JIKUAN LIU 4/5 12:50 PM
[2-Factor Authentication implementation for Redback.docx](#)

2-Factor Authentication implementatio... personal > s222034126_deakin_edu_au

April 6

4/6 10:19 AM Edited
Here is a summarise of our meeting
-Walking through the Github as a group
-Create forks and branches
-Update the Trello with the "done" tasks (the QR code is designed and implemented to the website)
-Currently working on API to implement to the app
- Organise a meeting with Tahlea to clarify her task for her ASAP (its an urgent task)

Redback Operations IOT T12023 Chat Files + March 21

3/21 9:45 AM
For the people that could't make the meeting yesterday, we discussed over following:

Agenda:

- Github and Trello access
- Review the projects
- Google cloude

Name	Task
WILLIAM DIOJODIREJO	Create FIT file/upload to Wahoo API
JARROD YONG	Scripts to start processes on RPi
ETHAN BENJAMIN	Improvements to end-to-end UX
THOMAS MORGAN	Scripts to start processes on RPi
MOMIN KHALID BUTT	Limit rate-of-transmission from RPi (GCP cost)
AHMAD RIAZ	Heart rate publishing issue
	Limit rate-of-transmission from RPi (GCP cost)
	Ethics submission for Gas Sensor System
	Ethics submission for Gas Sensor System

Task for this week

- Resourcing (Github, handover doc, other resources in the team channel)
- Planning (Trello, Road-map)

Redback Operations IOT T12023 Chat Files +

New ticket made for integrating KICKR speed for use in controlling the fan  1

Tuesday 9:01 PM
Briefing of our tonight meeting:

Thomas to search up if we could run the work outs and FTP scripts locally through the PI, without needing the APP running.

Thomas to create new tasks in Trello board, about running the fan and Kickr scripts,

William to search about the existing apps and tools to able the IOT team get access to the PI remotely,

Momin to start research about how we could Use kickr data values to control/adjust fan's operation

SINDHUJA MANDURU Chat Files Organization Activity LinkedIn +

SINDHUJA MANDURU 4/4 10:21 AM Yeah sure

4/4 10:47 AM
You could research about each field through "online wahoo documentation" which is well documented, Start here: <https://developer.garmin.com/fit/protocol/>
It is the GARMIN Documentation, Garmin own FIT files, So this is **general** infomation

 FIT Protocol | FIT SDK | Garmin Developers X
FIT Protocol
developer.garmin.com

4/4 6:55 PM
Hi Sindhuja
Do we have any update to run our meeting tonight?

SINDHUJA MANDURU 4/4 6:57 PM
Hi Ella

Going through the fields in data file

Updated trello broad till yesterday

Do you want to discuss anything

4/4 6:58 PM
No, I also don't have any update to bring up

Provided 1:1 Support

NASIM EMADI Chat Files Organization Activity LinkedIn +

https://github.com/redbackoperations

redbackoperations - Overview
redbackoperations has 9 repositories available. Follow their code on GitHub.

as all the Repos are public if u just provide them this link they will be able to clone, fork and create their branch

NASIM EMADI 4/3 11:27 AM Should I create new folder T1_2023 ?
My project is new initiative

4/3 11:27 AM but I assign u as collaborator, meaning its just u that are able to merge to the main branch

NASIM EMADI 4/3 11:27 AM Thanks

4/3 11:27 AM NASIM EMADI 4/3/2023, 11:27 AM Should I create new folder T1_2023 ?
I suggest,

it's your go, do as u think works better for u and your team

NASIM EMADI Chat Files Organization Activity LinkedIn +

4/3 11:30 AM U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch, they can submit a request, it gives u the opportunity to check their work first and then merge itg

NASIM EMADI 4/3 11:30 AM ELLA KARIMI ZARANDI 4/3/2023, 11:30 AM U also could assign other people as collaborators, but I suggest the only have public access and if they wanted to push into main branch...
Yep, Makes sense
thanks

April 5

NASIM EMADI 4/5 7:49 PM Hi Ella, I am ready if you want to have a quick call here

NASIM EMADI 4/5 7:56 PM nemadi@deakin.edu.au

4/5 7:59 PM https://trello.com/b/kj9wulDB/cyber-security

Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance...

trello.com

AHMAD RIAZ Chat Files Organization Activity LinkedIn +

AR AHMAD RIAZ 3/18 3:14 PM Hi Ella. Can you please add me to the project group chat please
Just updated on my side already added thanks

3/18 4:10 PM I believe I did. let me check

Redback Operations IOT T12023

I HAVE TO LEAVE SOON DUE TO THE VACATION. IF YOU GET A CHANCE TO WORK WITH THIS CARD, PLEASE LET ME KNOW. I WILL INCLUDE THIS TASK IN MY REPORT. THANKS.

ELLA KARIMI ZARANDI 3/18 4:10 PM I'll have time during the week to get properly through them and see what's up. I'll need to understand everything with the stakeholders first on Monday.

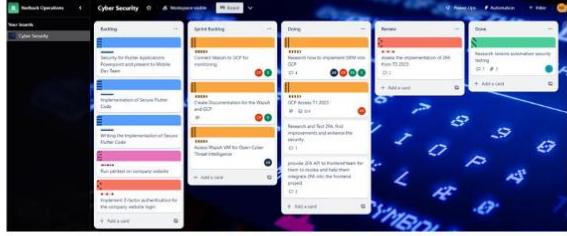
ELLA KARIMI ZARANDI 3/18 4:10 PM Morning team,
Thanks Thomas for your submission on the task.
Still I'm waiting for other members' feedback.
Regards,
Ria

ELLA KARIMI ZARANDI 3/18 4:10 PM AHMAD RIAZ, welcome to the team. See detailed history.

Wednesday

NASIM EMADI Chat Files Organization Activity LinkedIn +

NE 4/5 8:27 PM Just a quick one. Should I add new board for my project in this new trello or add my project tasks with different lable/colour to existing board?



4/5 8:50 PM It's not the one that shared the link with u, right?

I think it's the one that Melbin has created and it's only him with Admin access

NASIM EMADI 4/5 8:51 PM

ELLA KARIMI ZARANDI 4/5/2023, 7:59 PM <https://trello.com/b/kj9wulDB/cyber-security>

The link is the trello you just shared

4/5 8:54 PM Yep, that's the correct one

In regards to creating new board or working on the existing one is all up to u, but I suggest that u work on this one, so we could have all Cyber projects in same place

JIKUAN LIU Chat Files Organization Activity LinkedIn +

Join conversation teams.microsoft.com

Please be sure u have updated 2FA Trello board, I would like to know about your team members' tasks and the project's progress

Please be sure you are prepared for the meeting

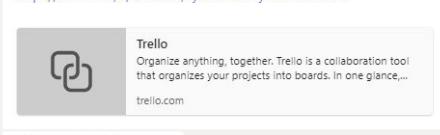
JIKUAN LIU 4/5 12:23 PM somehow, I can't edit the content of the board in Trello

4/5 12:26 PM are u free now?

JIKUAN LIU 4/5 12:28 PM yes

4/5 12:29 PM Bring up the Trello board and call me plz

JIKUAN LIU 4/5 12:34 PM <https://trello.com/b/R7Fls6Ax/cyber-security-redback-2023>



SINDHUJA MANDURU 3/17 11:51 AM
Can you please let me know the team name in teams

SM Couldnt find it

SM Got it just now
1

SM Thank you

SM Anything I have do by this week?

3/17 11:56 AM
yep, please listen to the recorded meeting, then u will find a doc uploaded to the group, if u have any ides that we could consider it as our tri goal, add it to the doc

SINDHUJA MANDURU 3/17 11:56 AM
sure

3/17 11:59 AM
I also posted a welcome message in the AI chat group

SM SINDHUJA MANDURU 3/17 11:59 AM
yeah got it

TIM MAJOR Chat Files Organization Activity LinkedIn +

TM Hi Ella, I hope you're well.

I am enrolled in T1/23 for the Capstone B project as a senior. I was under the impression that if we completed the units in consecutive trimesters we would be automatically added back into the company and team that we were a part of in the previous semester. However, it seems that this isn't the case. I'll add the link of the post from Michelle Yu ([Michelle Yu: Company Registration](#) posted in SIT378-SIT782 Team Project (B) - Execution And Delivery 2023 T1 / General at Monday, 5 March 2023 4:23:43 pm)

As a result, I am also not listed as a member of the team on the Excel spreadsheet containing the list of members.

I have spoken to Caitlin and have been told the the Cyber team has had some leadership issues, but I haven't been able to effectively communicate as I haven't been added into the chat. She has tried to invite me but I haven't received anything.

I was wondering if there was anything that you were able to do from your end to get me going? I have been working on my own research at this stage, so I have a few hours in my logbook already.

Thank you and kind regards,
Tim

 Join conversation
teams.microsoft.com

Sunday

Sunday 5:41 PM Edited
Hi Tim, I will get in touch with Caitlin, as its she that is responsible to add u to her channel,

u could refer to this conversation and notify her that if she is not able to add u to the channel, then she need to find a solution about that,

TIM MAJOR Chat Files Organization Activity LinkedIn +

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Thank you and kind regards,
Tim

 Join conversation
teams.microsoft.com

Sunday

Sunday 5:41 PM Edited
Hi Tim. I will get in touch with Caitlin, as its she that is responsible to add u to her channel.
u could refer to this conversation and notify her that if she is not able to add u to the channel, then she need to find a solution about that.

Sunday 5:47 PM
Hi Caitlin, please add TIM MAJOR to your chat channel, as he seems that he doesn't have any idea of what's going on in the project, as he doesn't have access to the chat channel, so he is not able to get any update or attend to the meetings.

thanks

CAITLIN PARKER Sunday 6:20 PM Edited
Hi Ella, I already tried before he messaged you. I think only Melvin has access to that channel as the owner. This is one of the reason why I recommend not making all brand new stuff for this trimester and using existing stuff that other people have access to and can be added in, but I got told no and that you having access would be enough.
Are you unable to add him?
If not than unfortunately there is not much I can do. I have already sent a request to Melvin for Tim to be added. All I can recommend is maybe you as the company lead to tell people to start using the channel in the company team

Sunday 9:01 PM
using the channel is something that team leaders decide about, I think the only way is u guys use another channel. U might think about using the company channel, or create a new one

I really dont mind what u use, I just want u guys have a channel that u are able to add/edit stuff

Tuesday

TIM MAJOR Tuesday 5:50 PM
Hi Ella, thank you for doing that. Caitlin had tried to send me an invite previously but it just never came through. I have been added to the channel!

1

Tuesday 6:14 PM
Good to hear that you are added to the channel 😊

HILAL IRSHAD Chat Files Organization Activity LinkedIn +

HILAL IRSHAD 3/19 10:01 AM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.


HILAL IRSHAD 3/19 6:01 PM
ELLA I'm so confuse could you look at my report and give me feedback what needs to be fix.
I posted some feed back and resources for u in the leadership channel

HILAL IRSHAD 3/19 6:04 PM
I saw it but it wont be possible for me to complete all the road map can I choose few and work on it


HILAL IRSHAD 3/19 6:09 PM
Are you coming tomorrow to University?
Burwood Campus?

HILAL IRSHAD 3/19/2023, 6:09 PM
Are you coming tomorrow to University?
yep, will be there around 10:00 am I think

HILAL IRSHAD 3/19 8:12 PM
Hilal, could u send the final edited report plz
plz post it to the leadership channel

SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/26 8:22 PM
Hey Ella, I just wanted to be in Tableau Dashboard team but I think I am not into any right now. I am very clueless right now, that where I could find that I have to go to check, that I have been allocated to a team.

SARANSH GUPTA 3/26 8:25 PM
Thanks Ella for quick response.


SARANSH GUPTA 3/26 8:29 PM
March 28

SARANSH GUPTA 3/28 7:42 AM
Hey Ella, I had a word with Mark. He told me that you are the only one who has joined late into the unit. He told me to come up with a new project. Is there any way that I could contribute in the earlier projects as I am a junior at this stage and this is all a new thing for me?

SARANSH GUPTA 3/28 8:06 AM
Hi Saransh, let me talk with Mark to see if we can join u to one of the current projects
Will update u by tonight

SARANSH GUPTA 3/28 8:09 AM
It will be great, the only thing was I came late in Australia. I will try my very best to catch up as I am done with most of the things now.


SARANSH GUPTA 3/28 8:11 AM
I do my best to place u in one of our project.


 SARANSH GUPTA Chat Files Organization Activity LinkedIn +

SARANSH GUPTA 3/29 7:16 PM
Hey Ella, I had a word with Prastut. Can I work under him in Data Warehouse? Or the project can only be done by 1 or 2 people in it?

3/29 7:33 PM
no its fine if he is happy, u could share the task/project 😊

if it is finalized let me know to add u to the AI team, under that project

SARANSH GUPTA 3/29 7:37 PM
Yeah, he is fine with it

3/29 7:38 PM
cool, please let me know which project is it?

SARANSH GUPTA 3/29 7:39 PM
Data Warehouse


3/29 7:49 PM
I asked mark to add u to the AI group as well

Sunday

SARANSH GUPTA Sunday 2:17 PM
Hey Ella, I just want to know one thing, if I am not a leader of the group, I won't be able to aim distinction or higher in this unit?

Sunday 5:34 PM
Hi Saranch, of course u can, U only need to be sure that you collect some evidence that shows u have done some project managing activities, such as creating/updating the cards in the Trello boards, organising some meetings or ...

I suggest u to also ask Atabak(our unit chair) what esle u could do to show that u deserve to get HD in terms of ledership requirements

Company Presentation

4/22 11:29 PM Edited
IMPORTANT!

Hi Everyone

As we are required to conduct the company progress presentation on Monday, **so plz modify and edit your team progress slides, in the shared PowerPoint file, which is attached to this post, by tomorrow 6:00 pm.**

Also please let me know if you would like to present the company presentation with me on Monday at 10:00 am,

This time, the junior and senior presentations run together, so I expect we get more expressions of interest in presenting task, across the company.

I prefer one member from each team, to present their team progress on behalf of their team, so if you are not able to participate, you may assign a member from your team to take part.

Deadline tomorrow 6:00 pm

Regards,

Ella

 Progress Report.pptx ...

4/23 8:34 PM

Hi Everyone Just a reminder that the project progress report will be submitted at 10:00pm, please let me know if you need more time

4/23 8:43 PM Edited

Hi Everyone

Below is the list of the members who will be presenting on behalf of their teams tomorrow:

IOT: Ella Zarandi

Cyber: Nasim Ebadi

Mobile: Tung Troung

VR Ella Zarandi

Data/AI MARK TELLEY

Web/Design AVINASH MAURYA

Dev/Ops Avinash

4/24 8:57 AM

AVINASH MAURYA 4/23/2023, 9:21 PM

Hey Ella, I will be representing Web Dev, DevOps, and the remaining projects of Cyber.

Hi Avinash, Just letting u know that talking with NASIM EMADI she would like to present the Cyber team

3:19 PM

Hi Everyone please make sure that you have created and submitted your slides about your project by tomorrow 12:00pm



Last read



THOMAS JAMES MORGAN 4:17 PM

ELLA KARIMI ZARANDI 5/20/2023, 3:19 PM

Hi Everyone please make sure that you have created and submitted your slides about your project by tomorrow 12:00pm

I've updated the slides and added another in regards to the FTP and GCP costs,

I've also updated some deliverables in the company progress report above, and added some potential tasks for next year



1

Project Sun Cycle(VR) Chat Files +

Yesterday 8:09 PM
it's only one slide, right?

STEVEN MAKRIS Yesterday 8:09 PM
at the moment yes

not sure what else i could add

Yesterday 8:14 PM
U could extend this slide by adding more slides and add more details, such as displaying different screens, menus, some screenshots of the city, bikes, time,

Project Sun Cycle(VR) Chat Files +

the way that it shows exactly how your project works

STEVEN MAKRIS Yesterday 8:15 PM
thanks Ella

HILAL IRSHAD how is the end trigger going?

Yesterday 8:16 PM
such as: when the user login which slide gets loaded, then what then ...

Wednesday 8:44 PM
Hi Everyone

As we are required to conduct the final company presentation(Juniors on Monday and seniors on Tuesday), **so plz modify and edit your team slides, in the shared PowerPoint file, which is attached to this post, by Friday 6:00 pm.**

Also please let me know if you would like to present the company presentation,
As it's the final presentation, I prefer one member from each team, to present their team progress on behalf of their team, so if you are not able to participate, you may assign a member from your team to take part.

Deadline Friday 6:00 pm

Regards,
Ella

Final Company Report.pptx ...

Yesterday 5:57 PM

Hi Everyone

It is required for each team to present some showcase videos in the last company presentation, which is running on coming Monday and Tuesday.

So please create showcases about your main product to be played in the presentation time,

If your main project is not completed, (which I believe all teams' main projects are already implemented) then just creating the slides would be fine,

The Deadline to submit your showcases and slides is Sunday 21st May, at 6:00 pm

Regards,

Ella



Final Company Presentalon.pptx ...

Wednesday 8:50 PM

Hi Everyone

As we are required to conduct the final company presentation(Juniors on Monday and seniors on Tuesday), **so plz modify and edit your team slides, in the shared PowerPoint file in theleadership channel,**

Also please let me know if you would like to present the company presentation,

As it's the final presentation, I prefer one member from each team, to present their team progress on behalf of their team, so if you are not able to participate, you may assign a member from your team to take part.

Deadline Friday 6:00 pm

Regards,

Ella



4/24 9:00 AM

ARJODH ARJODH SINGH 4/23/2023, 8:53 PM

ADHISH ANAND , STEVE LEE, SAM TITUS MENACHERRY,

PAUL ASTIFO- Hello Guys, could any of you can take the initiative of...

Hi Everyone

It wouldn't e any questions and answers, we only have 5

Min to present. I wanted everyone get opportunity to take part in the presentation as it's really affect your mark and grade

But it's all up to u guys to take advances of the opportunity or not

Regards

Ella

Yesterday 6:04 PM

Hi Jikuan, Plz make sure that you have created the slide about your project by tomorrow at 12:00 pm, also plz let me know if u or some one from your team is interested to present on Monday, otherwise I could present on behalf of your team

Today



JIKUAN LIU 3:45 PM

Hi, Ella. Could you please create slides first, and let me review and add some new content. I think this way is better

6:38 PM

Cyber.pptx

...



9:17 AM Edited
Morning Everyone,

As of now no one else from the other team, expressed interest to participate in the juniors' presentation tomorrow, I decided to assign some students from my team (IOT) to present on behalf of the whole company,

Please make sure that you submit your team's slides by 12:00 pm, so I could apply the required edition and pass it to my team to get prepared for their presentation.

NOTE: IF YOU FAIL TO SUBMIT BY 12:00 PM, THEN YOUR TEAM WOULD NOT BE PRESENTED IN THE COMPANY PRESENTATION.

STRICT DEADLINE : Today 12:00 PM

Regards,

Ella



ARJODH ARJODH SINGH 10:37 AM

ELLA KARIMI ZARANDI 5/21/2023, 9:17 AM

Morning Everyone, As of now no one else from the other team, expressed interest to participate in the juniors' presentation...

Hi Ella,

I can present for Devops



5:52 PM

Everyone Just letting u know that I will pass the slides to the juniors for their tomorrow presentation at sharp at 6:00 pm, (in 10 min)

AVINASH MAURYA and **THE TUNG TRUONG** have you updated your team's slides?



THE TUNG TRUONG 5:54 PM Edited
not yet but I am doing it now

5:55 PM

THE TUNG TRUONG 5/21/2023, 5:54 PM
not yet but I am doing it now

is anyone from your team interested to present for juniors?

THE TUNG TRUONG 5/21/2023, 5:54 PM
not yet but I am doing it now

Plz let me know when u finish, I will wait till 6:30 then



MARK TELLEY 5:56 PM

ELLA KARIMI ZARANDI - are you happy with the AI slides?



I made a few updates this afternoon

ETHAN BENJAMIN 5:43 AM
Added

ELLA KARIMI ZARANDI 5/20/2023, 3:19 PM
Hi Everyone please make sure that you have created and submitted your slides about your project by tomorrow 12:00pm

Not the slides but added some info to the handover docs. I also changed some formatting issues with the document as there were missing page breaks and headings etc

THOMAS JAMES MORGAN HARIS SAJJAD 6:06 PM
I've added u guys into the junior presentation channel, we would have a 10 min meeting at 7:00pm about the presentation

Is anyone else interested in presenting tomorrow? as from other teams we only have one person who is participating

THOMAS JAMES MORGAN 6:13 PM
I wont be available until 7:30 sorry

6:13 PM
then 7:45 we could have our meeting

THOMAS JAMES MORGAN 6:15 PM
Yes that'll be even better thanks!

Search

Juniors'CompanyStructurePres...

Chat Files +

ELLA KARIMI ZARANDI added HARIS SAJJAD and MIRIAM LLAUCE COTRINA to the chat.

3/31 5:15 PM
Hi team, I have created this chat group for u to be able to discuss over the Junior's presentation and get prepared for Monday

ELLA KARIMI ZARANDI changed the group name to Juniors'CompanyStructurePresentation.

3/31 5:18 PM
It will be 5 min presentation and 5 min Q/A, and I would like to have at least three juniors work together through this presentation, to share the task load.
The presentation slides are prepared and attached to this post. You are welcome to use the same one or create yours
I also am here to support you guys, if you need any assistance.
The presentation will be running on coming Monday(3.4.23) at The ProjectA session. The scheduled presentation time is as bellow:

9:20 AM	Chameleon
9:30 AM	DataBytes
9:40 AM	Gopher
9:50 AM	Hardhat
10:00 AM	Redback
10:10 PM	Thoth Tech

UpdatedCompanyStructurePresentation...

April 2

Search

Juniors'CompanyStructurePres...

Chat Files +

4/2 7:10 AM Hi team, just following up on your progress on the presentation, do u guys need any help with anything?

ELLA KARIMI ZARANDI added ETHAN BENJAMIN to the chat and shared all chat history.

ETHAN BENJAMIN 4/2 7:25 AM hey ella, could you grant me access to the presentation file please?

4/2 7:28 AM sure, as u are just added to the group that's why u are not able to access to that. I will upload the file again

UpdatedCompanyStructurePresentation...

Edited
ETHAN BENJAMIN please let me know if u are not get access to the new one

Provided Team leaders with Resources, Feedbacks and Guidness on Completeing the Team Repots

Company progress report

4/20 9:15 AM Edited
Morning Everyone

As per our discussion in the meeting yesterday, we are required to complete and submit the "Company Progress Report" (Task 6.1P) by end of this week.

I decided we use our current company report as the base, as we already included all the goals and plans there, so we are just to work towards updating the project's progress and the company structure as necessary.

The leaders will need to:

- Update the provided company report
 - Add descriptions of progress to each project
 - Indicate any changes to plans for the project.
 - Update team project membership and list key achievements of each team member within the project

Also, as mentioned in the meeting, all team members are needed to contribute to creating this progress report. Leadership students may create the section titles and other members who contributed to any component are to take part in preparing the write-up and the other required information to put in this shared report.

Deadline: Saturday 11:00 pm

Important!

As a part of this task, we are required to make sure that the Acting Director is aware of the **progress of each project, so I strongly suggest your attendance at our today meeting with the directors.**

CompanyProgressReport (2).docx

4/22 6:20 PM

Good evening Everyone

Please make sure that you have completed/added your "team progress report" to the shared file, located in this channel, (**DON'T send your reports directly to me**, it's your responsibility to make sure that your team progress report is added to the shred file.)

Tomorrow at 10:00 pm, I would submit the progress report file as it is, so make sure that you have implemented your desired updates by then.

Let me know if u needed any assistance or had any questions.

Regards,

Ella

1

4/22 6:41 PM

Hi Everyone, Please make sure that all new members are added to the team list on page 4

2

4/23 10:24 PM

Good evening

I would like to confirm that the Company Progress Report has been submitted by me on behalf of the seniors and **NASIM EMADI** on behalf of the joiners,

Here is a copy of the report for your information,

Regards,

Ella



Redback Operation Progress Report (1).... ...

Wednesday 11:01 AM Edited

Morning Everyone

As you are also aware, we are required to complete and submit the "Handover document t" by the end of week 11,

I decided we use our current company progress report as the base, so you are just required to work towards

- Introduce the tech skills and tools that have been used in each project
- Update the project progress report to indicate what progress was made since then
- Make sure you include the final status of each project,
- What is done by now,
- What needs to be completed,
- How this project could be extended in the next Trimester(connect it to other team's products, ex: Able users to get access to their workout reports using the app or website,

Or Controlling the workouts using the app, or ...)

- Indicate all the open issues
- Include if there are any new ideas or goals to be implemented next Trimester
- Step by step instructions about how to install/run the projects
- The location of resources
- Link to GitHub
- Link to Trello Board
- Update team project membership and list key achievements of each team member within the project

NOTE: All team members (juniors and seniors) are required to contribute to creating this report. Leadership students may create the section titles and other members who contributed to any component are to take part in preparing the write-up and the other required information to put in this shared report.

Deadline: Saturday 20th May, 11:00 pm

Wednesday 11:13 AM

Hi Everyone

Here is the link and Agenda for our meeting,

Tonight we will be discussing important tasks that need to be done by the end of this week, so it is important for everyone to attend the meeting.

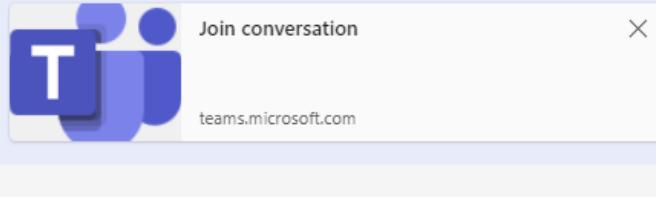
NOTE: If you are not able to make it, you are required to ask someone from your team to attend

Meeting Agenda:

- Project progress
- Junior Presentation
- Senior Presentation
- Handover document
- Showcases

Regards,

Ella<https://teams.microsoft.com/l/meetup-join/199%3ae7d087e35bb044cda8995a06db34df00%40thread.tacv2/1679892347349?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22d26dbff0-c242-48d4-bb51-37c1145461a2%22%7d>



ARJODH ARJODH SINGH Yesterday 4:53 PM

ELLA KARIMI ZARANDI 5/18/2023, 11:13 AM

Hi Everyone, CAITLIN PARKER I just realized that I haven't provided the latest version of the company handover doc and company proj...

Hi Ella,

I have updated the company progress report. Please have a look and let me know for any update.



Yesterday 5:35 PM

ARJODH ARJODH SINGH 5/19/2023, 4:53 PM

Hi Ella, I have updated the company progress report. Please have a look and let me know for any update.

Have you also moved/copied the required information from the handover doc that is provided here?



ARJODH ARJODH SINGH Yesterday 5:37 PM

Do I need to update handover doc separately?

Yesterday 5:38 PM

yes, actually you don't need to update the project report, you need to update the handover doc using the project progress report



ARJODH ARJODH SINGH Yesterday 5:39 PM

okay.. I'll need to copy/paste content from progress report to handover doc then

Is my understanding correct?

Yesterday 5:46 PM Edited

Hi Everyone

Here is the handover document template, please complete it to refer to your team's project's progress/Final status and make sure that the following points are included,

- Introduce the tech skills and tools that have been used in each project
- Update the project progress report to indicate what progress was made since then
- Make sure you include the final status of each project,
- What is done by now,
- What needs to be completed,
- How this project could be extended in the next Trimester(connect it to other team's products, ex: Able users to get access to their workout reports using the app or website,
Or Controlling the workouts using the app, or ...)

- Indicate all the open issues
- Include if there are any new ideas or goals to be implemented next Trimester
- Step by step instructions about how to install/run the projects
- The location of resources
- Link to GitHub
- Link to Trello Board
- Update team project membership and list key achievements of each team member within the project

NOTE: All team members (juniors and seniors) are required to contribute to creating this report. Leadership students may create the section titles and other members who contributed to any component are to take part in preparing the write-up and the other required information to put in this shared report.

As resource you may use the company report and the latest version of the companies andover document which is provided earlier.

Deadline: Saturday 27th May, 11:00 pm

Regards,

Ella



Project Handover Template.docx

...



2023T1 Capstone Redback Lead...



Chat

Files

Onboarding Report



ELLA KARIMI ZARANDI

You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/16 10:40 PM Edited
Hi Folks,

PLEASE CONSIDER THIS, AS URGENT TASK,

I would like you all complete and submit your team's report, objectives and goals by tomorrow 8:00pm, it will only take u about 1 hour, and as we need to submit this task by Sunday, so I would like you all to do your best to complete it by tomorrow night. For your information, here is the latest company report,



Company ReportT32022.pdf

...

3/16 10:51 PM Edited

To make it easier for u, here is a template that u guys could complete your team's info through it,



Template (1).docx

...

MELVIN MANOJ 3/19 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups.

Cyber Security Team 2.1P Updated .docx ...

BRIAN DANG 3/19 5:30 PM
Updated document for Web-Design team
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0eIlyJgyK9GaU/edit?usp=sharing

Web Design
Team Name: Web Development and Design Overview, Goals, and Objectives The web development and design...
[docs.google.com](https://docs.google.com/presentation/d/1CtbiH6qyQSKAVeoR5ns5C5OCT2j_jW0eIlyJgyK9GaU/edit?usp=sharing)

3/19 8:31 PM

MELVIN MANOJ 3/19/2023, 3:59 PM
Updated Template for cyber team, added more projects and divided them into more groups. Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members		
Member Name	Role	Task
Adam Ramsey	Junior	Incident monitoring (research and implementation/strategy to place in GCP environment)
Carla Estells	Junior	Incident Monitoring (Research and implementation)
Gailin Parker	Senior	Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobochukwe Usaka	Junior	

ARJODH ARJODH SINGH Wednesday 12:00 AM
Devops team trello board:<https://trello.com/b/SvbARmmY/devops>

Roadmap.docx ...

Wednesday 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and ...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.

DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

3/19 10:00 AM

THE TUNG TRUONG 3/18/2023, 9:14 PM

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...

Hi Tung,

Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section,

Please focus on **APP RESPONSIVENESS** as one of your main trimester goals and then refer to the "Roadmap" - page 81, To complete the "Deliverable" part,

AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not

You also may refer to the attached pdf file to get access to the "open issues" and "Road map".

 Mobile team.pdf

...

1

3/19 10:40 AM

Some tips when are working on the team report:

- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (EX: the reason you think that project is required to be added/improved or what problems would be solved),

- In the " Deliverables" section, you would breakdown your projects ~~to~~ to the Deliverables features/tasks to assign to your team members to get developed and delivered,

3/19 11:05 AM

HILAL IRSYAD 3/19/2023, 9:42 AM

 VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features, (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only " Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product,(please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

 VR.pdf

...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM

 DevOps.docx

Perfectly done, Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives " section,

 ARJODH ARJODH SINGH 3/19 11:36 AM
Hi Ella,
Are you referring to this piece:

Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project contents from Github into the Google cloud platform. To define more clearly, the culmination of all works from the Redback Operations Team was created into a Github repository ready for access by all its team members and by the public. However, the plethora of code-files need to be uploaded as a web application in an online platform. For this process, we are using Google Cloud Platform as our deployment structure. Moreover, the code-files are created to accommodate for "containerization" of the applications. Some great advantages of this are cost cutting and easy test and deployment cycles. So, our project focusses on deployment of these docker applications into the Google Cloud Platform. Which prepares the "containerised" for access to the internet.Tech Stack:


3/19 12:58 PM
ARJODH ARJODH SINGH 3/19/2023, 11:37 AM
Project 5 -Git App Repository Google Cloud Deployment(DevOps)The main objective of this project was the deployment of the project...
Yep

 ARJODH ARJODH SINGH 3/19 1:18 PM
Ella- I've updated that section. Please have a look and let me know.
 DevOps.docx ...
3/19 2:05 PM Edited
BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC T2j_jW0ellJgyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info,

PLEASE assign tasks to the team members,

 ...

Hi folks, In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report ➤ Community ➤ How to participate ➤ Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage, due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document, I will update the document based on your feedbacks

 1

3/18 9:13 PM Edited

MELVIN MANOJ 3/18/2023, 5:06 PM



Perfectly Done, Thanks Melvin, and the Cyber team,

I noticed that you have come up with two projects so far. As we have 9 people in the Cyber team, I would like we add more features/projects to the team, would really appreciate it if you and your team keep diving into the docs and projects, or conduct some research to come up with more goals, alternatively, I would sit with Jesse this week to discuss this matter future.

THE TUNG TRUONG 3/18 9:14 PM Edited

ELLA KARIMI ZARANDI 3/18/2023, 8:53 PM

Hi the Tung and thanks for submitting your team report, Here are some feedbacks: -Please fix all the spelling/grammar mistakes, -In th...

I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is really hard to assign the task to the member now. Because we are running on Agile, tasks will be changed after a sprint. So I can only write it in a general way. Anyway, please have a look and give me feedback. Thanks Ella!

THE TUNG TRUONG 3/18 9:23 PM

Btw, I notice that on the Figma the 2 features Marketplace and the Buy/Sell is not exist yet. So I need the help from the Design team to create this two features. For now we will focus on resolving the current issues first (implement the validation...)

BRIAN DANG 3/18 9:31 PM

https://docs.google.com/document/d/1CtbiH6qyQSKAveoR5ns5C5OCT2j_jW0ellyJgyK9GaU/edit?usp=sharing

Informed members of Company structure submission

ELLA KARIMI ZARANDI 3/26, 10:23 PM

Hi @General

I would like to confirm that the company's report (which is the Task 2.1 requirement as well) has been submitted by me on behalf of seniors and by THOMAS JAMES MORGAN on behalf of juniors,

See more

 ...



Company Presentation

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/22

3/22 4:55 PM
Hi team,
We are required to present our Company structure and objectives in the **Week 4 lecture (Tuesday 11 am)**.
Please start to prepare your presentation to add it to the Powerpoint that I will share here tomorrow.
We will discuss this further, in our tonight meeting.
Regards,
Ella

MARK TELLEY 3/22 6:41 PM
Hey Ella, is a 3 - 4 min presentation sufficient?

3/22 7:20 PM
Yep Mark, its a 5min presentation, I would say for each team we could spend about 40sec, 1

3/22 7:30 PM
with the focus on summarising the objectives/planned deliverables.

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ... 22

3/27 6:11 PM
Here is the company current Powerpoint, Still I need to work on the IOT section, The teams that haven't sent their slides yet please add them to this Powerpoint

CompanyStructurePresentation.pptx ...

Edited

Hi leaders, our company presentation is scheduled for 11:50 am tomorrow, if u would like to participate in the presenting (ONLY SENIORS) please let me know by 9:00 pm tonight

THE TUNG TRUONG 3/27 7:57 PM
Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ... 1

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

THE TUNG TRUONG 3/27 7:57 PM Hi Ella, this is our team ppt

Mobie Team Presentation.pptx ...

1

3/27 8:44 PM Edited Here is the Updated Powerpoint file, please review your team's section to besure everything is correct.

UpdatedCompanyStructurePresentation... ...

MARK TELLEY 3/27 8:47 PM Thanks Ella, note, i'll make some minor changes tomorrow morning

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

March 28

Luxing Yang 3/28 10:11 AM Good morning everyone, are you ready for the company presentation today?

3/28 10:13 AM Morning Luxing, Sure we are, Mark and I will be running the presentation 😊

Luxing Yang 3/28 10:14 AM Thanks **ELLA KARIMI ZARANDI** for letting me know. Looking forward to your presentation.

1

Company On-Boarding

Redback Operations Team Leaders Chat Files +

JARROD YONG 3/14 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be interested in doing it but I actually don't think I'll have the time to lead and help in another project would it be alright if I could step down as a team lead?

1

3/14 8:25 PM

YIANNIS DOULGERAKIS 3/14/2023, 8:21 PM now where can we find the tasks? or do we create the tasks ourselves?

Yep, its your responsibility to assign tasks to your student, based on the team's goals and the students' capabilities. If u had issues to come up with new goals or u find out that there are not enough tasks for everyone to get assigned to, please reach out to me,

JARROD YONG 3/14/2023, 8:25 PM Hi Ella I actually wasn't aware I've become a team leader 😅 (Sorry I was at work that day we had a meeting) I know I mentioned I'd be...

That's fine Jarrod, I will call out to see who can lead this team then

1

YIANNIS DOULGERAKIS changed the group name to Redback Operations Team Leaders.

ELLA KARIMI ZARANDI added Unknown user to the chat.

March 15

3/15 3:02 PM Hi leaders, I am still waiting for your email to be able to set up your acces

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... Meet ⓘ ...

ELLA KARIMI ZARANDI 3/8, 10:17 AM @General

Morning team,

Here is an Excel file, that indicates the record of some of our onboard team members, based on what I received from you guys and Michele till yesterday 2:00pm,

Would be great if you go through it and if you don't see your information, please add yours, by no later than tomorrow at 12:00 pm,

If you are not able to find your info in that spreadsheet, but you have already sent me your information, (here or through direct message) after 2:00 pm yesterday, would be great if you also add yours into the spreadsheet,

If for any reason you are not able to add your info to the spreadsheet, message me, so I am happy to take care of it for you tonight after work.

Regards,

Ella

[See less](#)

 Onboarding Report - Redback Operations.xlsx ...

[Reply](#)

Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict... 🌟 ❤️ 😊 😊 😊

ELLA KARIMI ZARANDI 3/9, 6:13 PM Edited Hi @General,

Here is a pdf file showing the members' record based on the information you have submitted.

Please check it out and if you can't find your record, it means that I haven't got yours, so please send it ASAP, so I could update the form,

Regards,

Ella

[See less](#)

 OnboardMembersUpdated.pdf RedbackOperations9 >General ...

[Reply](#)

March 10, 2023

ELLA KARIMI ZARANDI 3/10, 10:51 AM Hi @General,

Could I ask u to walk through your preferred team's handover docs, before tonight meeting, (I have shared the handover docs earlier in this channel) to get a sense of what projects each team works on, what is done and what is left, u also might come up with some fresh ideas to set as goal for your team for this trimester,

Also I would like give u a briefing on some leadership expected tasks, its lots of responsibility for you to take to run a team as a team leader, with main ones: planning goals for the team to achieve(short/long term and for whole trimester), breaking down the goals, assign tasks to the members, creating Trello (or use your own agile tool) and tracking the performance of the team overall and members individually and supporting the team members which are struggling with their assigned tasks ,

Look forward meeting you at the meeting tonight,

Regards,

Ella

[See less](#)

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... + Deakin - Restrict...

Reply March 16, 2023

ELLA KARIMI ZARANDI 3/16, 7:36 AM General Morning team, please check out the updated list of our team members.

Finalized members list.pdf ...

9 replies from STEPHEN TOBECHUKWU, DANIEL, EVAN, and 6 others

Reply

ELLA KARIMI ZARANDI 3/16, 8:41 PM @General

Hi folks,
If you are not in the list, you may get in touch/ send text to the team leader to add you to their list,
Regards,
Ella

See less

Reply

March 17, 2023

ELLA KARIMI ZARANDI 3/17, 12:14 PM Hi @General
Please let me know if you havent hear from your team leaders yet.
Regards,
Ella

JF JIAHAO FENG 3/17, 3:09 PM Edited Hi Ella, can you upt me to VR tram. becasue our leadr do not know how add me to team. Thank you.

ELLA KARIMI ZARANDI 3/17, 4:25 PM Hi @General
We need more members to join to VR team, is anyone interested to move to VR team?
Regards,
Ella

Reply

2023T1 Capstone Redback Lead... Chat Files Onboarding Report + 22

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/17 12:04 PM Hi everyone, about the team report, u may share the template with your team to have it completed collaboratively. Also I have added the new members to our list, be sure that u adding them to your chat group/ team group, here is the updated member list

Finalized members list.xlsx ...

3/17 12:33 PM Edited Here is a link to our weekly meeting, including tonight

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTRkNDU0MWUtZDgxNi00Y2ZkLWJY2MtM2JiYzYyNWMwMDcx%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d

Join conversation X

April 6, 2023

ELLA KARIMI ZARANDI 3/17, 12:08 PM Edited
@General
Hi everyone,
I have added the new members to the list, plz check it out and let me know if u dont find your name , Also plz get in touch with the team leaders and ask them to add u to their group chat/team group ,Regards,
Ella
[See less](#)

 Finalized team members list.xlsx ...
18 replies from you, AHMAD, MOMIN KHALID, and 7 others

Reply @

XINYU ZHANG Chat Files Organization Activity LinkedIn +

Saturday 8:36 AM
Hi Xinyu Zhang
My name is Ella and I'm Redback company leader,
Just checking if u have been placed in any team or project yet?

Sunday

XINYU ZHANG Sunday 7:30 PM
I haven't joined any group because it seems like all the teams are full 😊

Sunday 9:16 PM
Based on your skills what team do u believe is suitable for u to join?

XINYU ZHANG Sunday 11:51 PM
maybe the AI?or VR. 🤖

Monday

Monday 8:34 AM
I will add u to VR, as we have lots of people in AI

please get in touch with HILAL IRSASHAD, who is the VR team leader refer to this chat and ask him to add u to the VR team

XINYU ZHANG Monday 4:47 PM
thank you

1

Task allocation to team members

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 2:02 PM Hi team,
Tonight I would like we finalize the IOT projects,
Currently I am studying through the handover doc and github, to find out which projects we are going to run this Tri,
Later in the afternoon I will provide the project list here for u to pick; and alternatively I will be available between 9:00 to 9:30
to have a team meeting, if anyone needed any assistance or info about each project.

3/22 2:50 PM IOT Projects.docx ...

3/22 7:28 PM Edited
Hi Everyone , Please RSVP your attendance at the meeting tonight,

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 9:58 PM Share board
Email address or name: Member

Member	Admin
Shared @team - Workspace owner	Admin
Ahmad Riaz @ahmedraiz - Workspace guest	Member
Angal Singh (Shankar) @angalsingh - Workspace guest	Member
Ethan Bergman @ethanbergman - Workspace guest	Member
Hansen Dun @hansen.dun - Workspace guest	Member
Jarid Vora @jaridvora - Workspace guest	Member
Kushan Arumugam @kushanarumugam - Workspace guest	Member
Kyle Rayner @kyle.rayner - Workspace owner	Member

Ahmad, plz pick one of the projects, as u didn't attend to the tonight meeting. I assume u don't have any question about projects.

Q Search

Redback Operations IOT T12023 Chat Files +

3/22 10:16 PM AHMAD RIAZ 3/22/2023, 10:15 PM
ethics submission for gas sensor system is not in the list you send
should i include it as well?

No, I had to cancel that project, as we don't have the gas sensor at the lab right now

"Implementing FTP system" is my main goal for this tri, it's about designing workouts; currently we only have one workout, I want we develop at least two more

Tomorrow at 1:00pm I have a meeting with the company director, and I'm required to report on each member's assigned projects, so please be sure you have picked your project by tomorrow 12:00pm

MOMIN KHALID BUTT 3/22 10:23 PM
i am selecting Limit rate-of-transmission from RPi (GCP cost)

3/22 10:23 PM ALSO be aware that you are required to attend our team meetings and I am required to roll the attendees

MOMIN KHALID BUTT 3/22/2023, 10:23 PM
i am selecting Limit rate-of-transmission from RPi (GCP cost)
please add it to the list

I have to leave now, but will check the list tomorrow morning

have a great night everyone

A Redback Operations IOT T12023 Chat Files +

Limit rate-of-transmission from RPi (GCP cost)	ETHAN BENJAMIN MOMIN KHALID BUTT	Junior	
Scripts to start processes on RPi	JARROD YONG ETHAN BENJAMIN	Junior	Team Member
Heart rate publishing issue	THOMAS MORGAN WILLIAM DJODJODIREJO	Junior	Team Member
Improvements to end-to-end UX	JARROD YONG AHMAD RIAZ Haris Sajjad	Junior	Team Member
Continue implementing the Cycling Against Friends/Ghosts feature in Project Sun Cycle			

3/24 5:02 PM
Hi team, I need to submit our company's report by tomorrow,(which is the task 2.1 requirement), please be sure u have projects assigned to your name here and in our Trello board

Also, you are required to record your time in the provided work log

Provided guidance about students' question on Capstone and On Track tasks:

STEVEN MAKRIS Chat Files Organization Activity LinkedIn +

STEVEN MAKRIS 4/4 3:11 PM
Hey Ella just a quick question. If I am working on my task (I am the only one that works on it) and it is not completed when I finish working on it for the day I should use "Other" on my workbook or something else?

Other

- Research
- Task Completion
- Up-Stilling
- Scheduled Class
- Contribution
- Mentoring
- Cohort Contribution
- Other

4/4 3:34 PM
U mean u worked on your project, right? If that's the case just put contributions

STEVEN MAKRIS 4/4 3:34 PM
yes a task for the VR project

contribution then. Thank you

1

THE TUNG TRUONG Sunday 7:44 PM
Hi Ella I have some question

for the week 6 panel

I am not aiming for the HD, but one of my team member is aiming it

will it affect my team member

do I need to make a presentation for my team and submit it for task 5.4HD or the task is individually

Sunday 9:33 PM
Hi Tung, this task is an individual task and you are not required to do anything in terms of other members' grade, good luck with your assignments 😊

THE TUNG TRUONG Sunday 10:02 PM
so do I need to tell my team member to submit for the form that Michele sent to us

Edited
for the presentation in the Week 6 - presentation

Sunday 10:10 PM
That's fine
Yep, if he aims for HD he needs to submit his slides, then u unit chairs will assign time for his presentation

But about form, it's mentioned here if U ARE NO LONGER AMING FOR HD FIL THE PROVIDED FORM

THE TUNG TRUONG Sunday 10:13 PM
ok I got it, I will fill the form

1

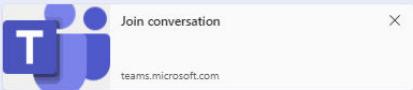
Thanks for your help, Ella

Sunday 10:20 PM
no worries

Communication with VR Team:

Project Sun Cycle(VR) Chat Files +

5/11 7:18 PM
Hi Everyone. Here is the link to our tonight's meeting https://teams.microsoft.com/l/meetup-join/19%3ameeting_MmU02mNIOWEBzJE3NC00YT5LTjNThYTbkN2QSNzdIMDEz%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0f43742b13a%22%7d

Join conversation
teams.microsoft.com

5/11 10:12 PM Edited
Guys, I found these in the handover doc

The VR game is a Unity game which needs to be downloaded from the Project Sun Cycle Repository in Plastic SCM. This requires permission from the VR team leader, as there are only three seats available in the free tier before charging \$7 per user per month and locking the project. If developer access is not required, it may be preferable to obtain a zipped build of the game which is about 150 MB. The Windows build has been tested and works with keyboard controller. To enable receipt of MQTT commands from the bike, find the player avatar (called Skateboard Shader Cel) and enable the checkbox for UseBikeSpeed in the Inspector. This instructs Unity to connect to the MQTT broker (using the credentials in the MQTT GameObject) and subscribe to the bike's topics. When speed data is received, it is scaled and applied to the forward transform of the avatar, although keyboard or VR controller is still required for steering sideways or backwards.

Edited
Guys, checking the handover doc, I think you need to download the Project Sun Cycle Repository in Plastic SCM, as The VR game is a Unity game which needs to be downloaded from the Project Sun Cycle Repository in Plastic SCM

Deliverable: Create Summary of Race Interface

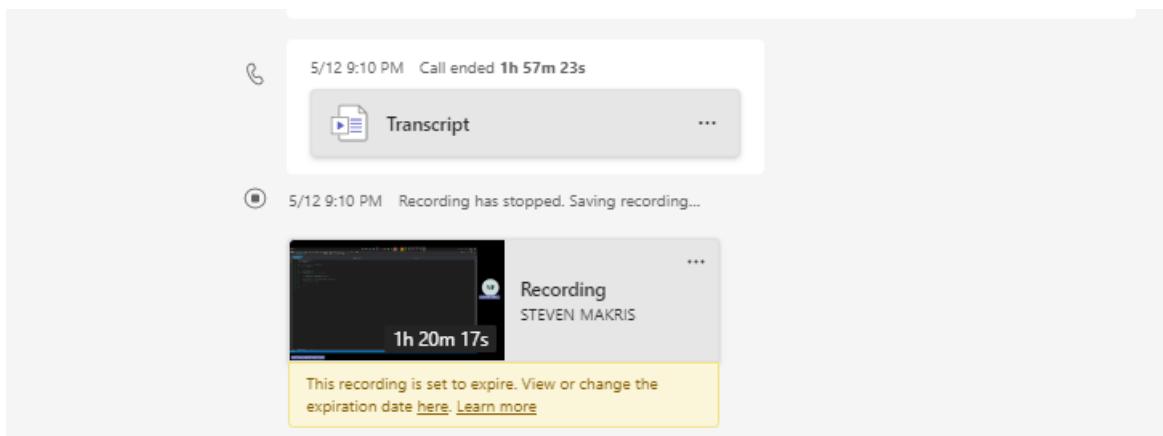
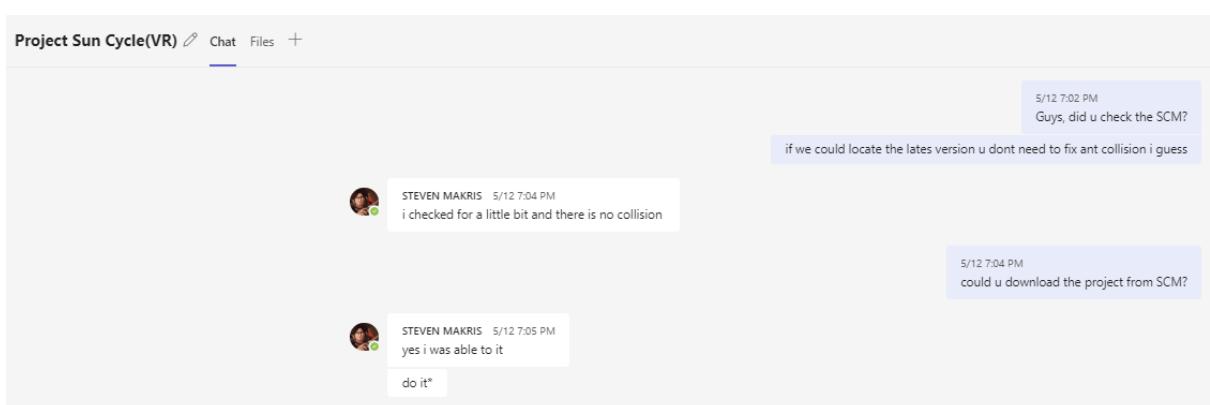
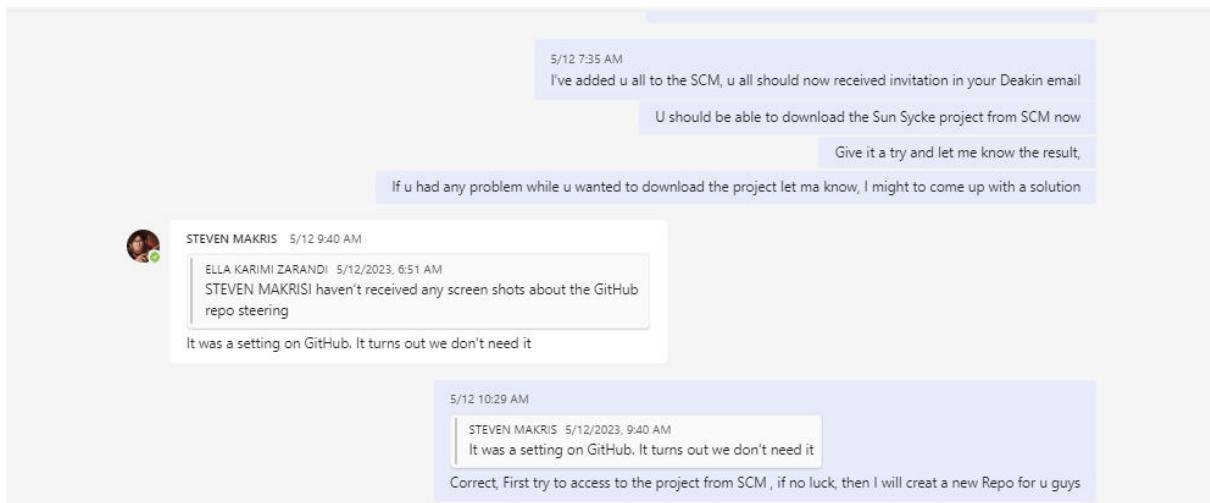
Description: Designed and implemented an interface showing relevant statistics of the race. Includes personal results and how well the user stacked up against the competition.

Trello Ticket: <https://trello.com/c/ytPerGIN/79-create-summary-of-race-interface>

Unity Project: Can be found in the 'MainScene' scene of the /main/mqtt branch of the Project Sun Cycle Unity project

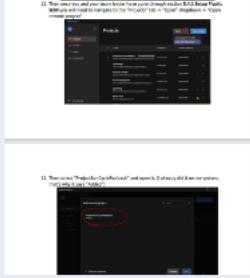
Deliverable: Menu for Cycling Against Friends/Ghosts Feature

Description: Designed and implemented an interface to the existing main menu of the Project Sun Cycle Unity project for the



Sunday 8:05 PM Call started

Sunday 9:03 PM
NATHAN JAMES FAIRCHILD STEVEN MAKRIS Guys, checking the handover doc in VR section, shows how u could download the project from plastic SCM, refer to page 45



its easy instruction and even they provided step by step instruction including screen shots,
plz make sure that u follow the steps and let me know if u could get access to the last version or not

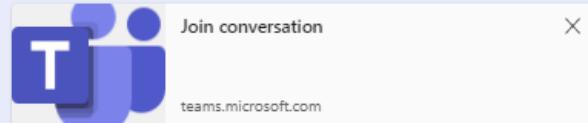
Sunday 9:33 PM Call ended 1h 28m 5s

Tuesday 11:37 AM
Here is the link to our tonight meeting at 7:00 pm,

IMPORTANT I would like @everyone to attend

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZGZhZjl2M2UtM2VhNy00OTE4LWI0ZTEtOGFmMDUyZDdjYTZm%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



Tuesday 11:52 AM Edited
Everyone

Tonight meeting Agenda:

- Project progress
- Handover document
- Presentation slides
- Showcases



Tuesday 9:02 PM
Guys, are u here, so I make a call

Everyone or how about we have our meeting tomorrow at 7:00pm?

NATHAN JAMES FAIRCHILD Tuesday 9:04 PM
i cant do tomorrow

STEVEN MAKRIS Tuesday 9:04 PM
i cant do tmr too

Tuesday 9:05 PM
ok then let me call now

Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a report about your tram progress

THE TUNG TRUONG 4/5 9:15 PM

ELLA KARIMI ZARANDI 4/5/2023, 9:00 PM

Tung, are u going to attend the meeting with Kevin tomorrow? As u neither attended to our leadership meeting tonight or sent me a...

I thought the meeting is fixed at 8pm

oh australia just change the time zone..

because at 4pm (on my time zone) I switched to this Teams acc but I didn't see any meeting so I continued to work and waited for 15 more minute but I still did not see any meeting and I thought today meeting is cancelled

then I logged out the uni acc and logged in back to my work account, so I did not received any notification

I will send you a report about our Teams tmr



April 6

4/6 11:22 AM

Hi Tung, Please give me an update on your team ASAP, Just type here, so I could add it to our weekly Report

THE TUNG TRUONG 4/6 11:42 AM

oke so last week we fix 2 bugs related to the screen responsiveness that I told you last week

Edited

this week our team will finish first agile task is refactor code (current status 70%)

the plan for next week is to create the ui for new screens, redesign the old screens(following the figma from last trimester as I don't know whether the design from this trimester is changed or not)

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23

3/21 11:20 AM

ARJODH ARJODH SINGH 3/21/2023, 11:12 AM
Ella-I would be difficult for me to submit it today. I haven't been able to touchbase with team members from yesterday as they are not...

We have our weekly meeting with Kevin on Thursday, so I would appreciate it if leaders update me about their progress beforehand

3/21 11:30 AM

I would like to let you know that I have scheduled two 15 min weekly meetings, as below:
Wednesdays at 8:00 pm.
Fridays at 8:00 pm.
Team leaders are required to attend the meetings or provide valid reasons for not being able to make it.

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/29 11:40 AM

IMPORTANT:
IF YOU ARE NOT ABLE TO ATTEND THE MEETING, Please send me a report (Trello or Excel report) of your team's workflow over last week. It will help me to keep a track on each team members' working/completed tasks in each project. please send me a report of your team's work workflow over last week

1

ARJODH ARJODH SINGH 3/29 7:59 PM
<https://trello.com/b/SvbARmmY/devops>


Trello
Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance,...

1

Worklogs

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/23 5:03 PM

Hi Everyone

I was notified that some teams still not using the workbooks to record their time,

The "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

It is essential to keep track of all Team members' hours in the workbook. So All members should record their hours in this workbook.

You are required to Take screenshots from the workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

YANNIS DOULGERAKIS 3/23 5:05 PM Where to find this work book?

3/23 5:20 PM Edited

YANNIS DOULGERAKIS 3/23/2023, 5:05 PM Where to find this work book?

You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team

IOT Worklog 2023 T1 (2).xlsx ...

Redback Operations IOT T12023 Chat Files +

3/23 5:00 PM

This "Workbook 2023 T1" is a spreadsheet in which all your activities should be recorded throughout the trimester. It has some relevant items that you can select and record the time you spend doing them as well as "other" that you can use for activities not listed in the spreadsheet.

A minimum of 100 hours is required for a Pass grade and 120 hours are required for a Credit+ grades in the capstone units. It is therefore mandatory that students of capstone units record their activities in the workbook during T1 2023.

It is essential to keep track of all Team members' hours in this workbook. So All members should record their hours in this workbook.

Take screenshots from that workbook as evidence of your contributions and your compliance with the minimum hours requirement when preparing your Ontrack tasks. Also, reporting the recorded hours of all company members should be included in the group tasks that will be submitted via Ontrack.

Regards,
Ella

IOT Worklog 2023 T1.xlsx ...

Redback Operations IOT T12023 Chat Files +

I have created one for our team and u could locate it in the file here

https://deakin365-my.sharepoint.com/:g/personal/ekarimizarandi_deakin_edu_au/EVx9ggMnmkNHgkfX2pQ3a_cBTJ-nmHVxs3EBBdkY3KhXQ

IOT Worklog 2023 T1.xlsx ...

THOMAS JAMES MORGAN 3/24/2023, 5:08 PM IOT Worklog 2023 T1!

No, please record your time in our team's worklog

Setting up Access:

March 11, 2023

ELLA KARIMI ZARANDI 3/11, 10:30 AM @General, Morning team, I have managed to organize a meeting with the previous company leader for tomorrow morning to sort out the team leader's access to the required tools and platforms, So really appreciate, if all team leaders provide your email addresses under this post by tonight, Regards, Ella

[See less](#)

Reply

HILAL IRSYAD 3/11, 2:13 PM Hi **ELLA KARIMI ZARANDI**! I'm Hilal Irshad, I have filled the google form for registration with the company. Could you help me out when I will have a meeting with my teammates and what role will be assigned to me? I'm interested to work on project 2 (Project Sun cycle VR). Thanks

Redback Operations Team Leaders Chat Files +

3/16 6:30 AM
I have added u all as Collaborators in the git hub, u should have received an invitation email,

its u that need to set the git hub access for your team members. my advice is just to give them member access, so they are able to clone, but for push to the git hub, they will need to submit a request to u , so u get to check the codes before pushing them to the repository.

we need to have a meeting soon to go through git hub and other things as well, please let me know if tonight at 8:00 works for you guys.

YD YIANNIS DOULGERAKIS 3/16 6:35 AM
Yes!

3/16 6:38 AM
if u need admin access to unity and Figma plz provide me with your user name, so I could take care of them for u

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/7, 1:29 PM
Hi @General,
Here is the T3, 2022 Redback Operations handover document, would be great if you could read through it to get yourself familiar with the company overall,

 Redback T3HandoverDoc.pdf ...

Reply

General Posts Files PLC Notebook Fill | 2022-T1 Redback ... +

Deakin - Restrict... Meet ⓘ

ELLA KARIMI ZARANDI 3/8, 11:02 AM
Hi @General,
There is a issue with Teams that you might not be able to access forms, So I would also provide you with a share point access link, to get access to the files,

Below is the SharePoint access link to the boarding report,
[Onboarding Report - Redback Operations.xlsx](#)

Regards,
Ella
[See less](#)

Reply

Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

22

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT. U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx 3/23 ...

3/17 10:31 PM
Hi team, as I have mentioned to the meetings, if u still havent got your admin access to git hub or Trello, plz send your email address here, so I could set up your admin accesses

3/17 10:48 PM
HILAL IRSHAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gmail address who has the trello account

3/17 11:01 PM
I have set Trello admin accesses as below:
Mobile team --> The Ting
Web - Design team --> Brian (Yiannis doesn't have Trello account under his email address)
DevOps --> Arjdh
Cyber --> Mevin
VR --> (waiting for email address)

As now u all have Trello admin access, you are able to sort out accesses for your student, I suggest to set their access as "member"

Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

HILAL IRSYAD 3/18 12:12 PM

ELLA KARIMI ZARANDI 3/17/2023, 10:48 PM

HILAL IRSYAD, u dont have Trello account, so it doesn't let me to add u as admin, please provide me with one of your team members' gma...

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

HILAL IRSYAD 3/18 1:00 PM
irshad@deakin.edu.au

3/18 1:25 PM

HILAL IRSYAD 3/18/2023, 12:12 PM

Hi Ella! I created the account and can access the Trello but could you make the admin. My email address is irshad@deakin.edu.au

Done Hilal 😊

1

Search ...

Redback Operations IOT T12023 Chat Files +

3/27 7:36 PM

GCP Access have been granted - I'll set this up during the week.

Dear Ella,

As requested, the project "Redback Infrastructure" for Redback Operations has now been adjusted on the Google Cloud Platform to allow team access. This project grants you and your team the ability to use most Google Cloud services.

The following members of your team have access to this project in the role of EDITOR. They are:

- ELLA KARIMI ZARANDI (ella.karimizarandi@deakin.edu.au) [Budget notification target]
- WILLIAM DIOJO DIREJO (wddiojodirejo@deakin.edu.au)
- JARROD YONG (kyong@deakin.edu.au)
- ETHAN BENJAMIN (benjamine@deakin.edu.au)
- THOMAS MORGAN (tmorgan@deakin.edu.au)
- MOMIN KHALID BUTT (mkbutt@deakin.edu.au)
- AHMAD RIAZ (nazar@deakin.edu.au)

like normally we have the setting at the right side on the bar, but I couldn't find it so I don't know how to add my team members 😅

1

ELLA KARIMI ZARANDI 3/31/2023, 2:35 PM

I'm at the office now

I understand, thanks for your help Ella

1

3/31 5:05 PM

Hi Tung, is your github account under your Deakin email

I also need the email address to be able to add the team members to the github

[Created the VR repo in GitHub](#)

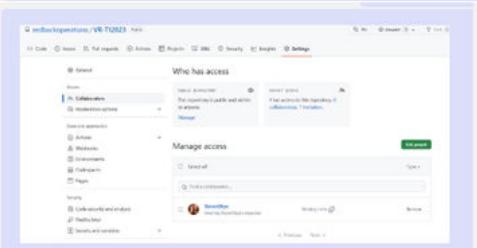
 STEVEN MAKRIS 4/1 3:20 PM
Hey Ella! i am talking from the VR unity team.
I noticed that we dont have any unity project on GitHub.
May i have access to redbackoperations to create a repository with the current project so it can get auto updated to any new changes? thanks

4/2 7:37 AM
Hi Steven, I have created a VR repo, please text me your Github account, so I could add u as collaborater in that repo



 STEVEN MAKRIS 4/2 3:59 PM
my username is: StevenSkye

4/2 4:24 PM
done



 STEVEN MAKRIS 4/2 4:37 PM
thank you


Providing leaders with some projects ideas

 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +
ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx 3/23 ...

3/19 10:00 AM
THE TUNG TRUONG 3/18/2023, 9:14 PM
I fixed all of the spacing issues and added some clarifications for the "Aims for this trimester". However, for the project member part, it is...
Hi Tung.
Please refer to the "Open Issues" in handover doc- page 83 to complete the "aim for this trimester" section.
Please focus on APP RESPONSIVENESS as one of your main trimester goals and then refer to the "Roadmap" - page 81. To complete the "Deliverable" part.
AGAIN please assign tasks to all team members, u could share the tasks in your chat group and ask your team to respond with their preferred projects, if no respond please refer to their skills and u assign task for them, but let them know to confirm if they are capable to run that task or not
You also may refer to the attached pdf file to get access to the "open issues" and "Road map".
 Mobile team.pdf ...


3/19 10:40 AM
Some tips when are working on the team report:
- In the " Aims for Trimester" you would include your plans/goals you would like to achieve in this Trimester and give a brief description, (Ex: the reason you think that project is required to be added/improved or what problems would be solved),
- In the " Deliverables" section, you would breakdown your projects to the Deliverables features/tasks to assign to your team members to get developed and delivered.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

3/19 11:05 AM

HILAL IRSHAD 3/19/2023, 9:42 AM
VR team Report.docx

Hi Hilal and thanks for the team report:

Here is some feedback on the report:

- Please refer to the "Open Issues" and "Roadmap" in the handover doc- page 60 to add/edit the planned features. (I have provided a copy here as well)

- I also would like VR team to employ further sensor data in their product, we have four sensors connected to the bike, (Wahoo Incline Simulator, Wahoo CLIMB Incline Simulator, Wahoo TICKR Heart Rate Sensor, and Wahoo HEADWIND Fan), however only "Incline Simulator" and "Incline Simulator sensors" are being used in VR, please conduct research and come up with some idea about how u could use the other sensors in our VR product; (please include this research in your plans as well).

-Fix the "Role" column in the "Project Member" table

Regards,

Ella

VR.pdf ...

3/19 11:19 AM

ARJODH ARJODH SINGH 3/18/2023, 8:01 PM
DevOps.docx

Perfectly done. Just refer to the project "Git App Repository Google Cloud Deployment" in the handover doc page 98 or company profile and EDIT the "Overview, Goals, and Objectives" section.

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used in your team IOT Worklog 2023 T1 (2).xlsx

BRIAN DANG 3/18/2023, 9:31 PM
https://docs.google.com/document/d/1CtbiH6qyQSKAVeoR5ns5C5OC-T2j_wOellygyK9GaU/edit?usp=sharing

Please specify the following pages as the one that u would like to improve:

Daily Report
➤ Community
➤ How to participate
➤ Signup
➤ Login and Signup landing
➤ Yoga
➤ Workout
➤ Projects
➤ Products
➤ Contact-UsTeam-Member Brian Dang Product-devices(Not Implemented Proper)

AND The following pages are yet to be implemented in the figma design

➤ Product Devices
➤ Exercise History
➤ Your Daily Report with Exercise
➤ Exercises
➤ User Dashboard

Basically user dashboard feature where user will track his improvements and progress and his details is yet to be implemented except the one page daily report implemented in this trimester

Also these are the issues that need to be fixes

- Some images could not be downloaded from figma design. So used some different images which need to be altered in some pages.
- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

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- As we didn't have website credentials yearbook feature could not be deployed.
- Even though the website is responsive in different screens size of some images will differ and be uneven

Please refer to the handover doc and the pdf file attached for more info.

PLEASE assign tasks to the team members.

 Web-Design.pdf ...

Hi folks. In the team report please include a link to the team's Trello board

BRIAN DANG 3/19 2:33 PM

ELLA KARIMI ZARANDI 3/19/2023, 2:05 PM

Please specify the following pages as the one that u would like to improve: Daily Report > Community > How to participate > Signu...

Hi Ella, about assigning tasks for members is very hard to do at this stage. due you merged web dev and design team together recently and new members keep joining and I haven't got all of the team member skillsets in order to assigning tasks for them. The way I manage the project here is come up with list of requirements and slit those requirements to smaller tasks for team members later on after we discuss those requirement as a team. The thing I can do now is assigning role for the team members
And about your feedbacks of my document. I will update the document based on your feedbacks

1

3/19 8:31 PM

MELVIN MANOJ 3/19/2023, 3:59 PM

Updated Template for cyber team, added more projects and divided them into more groups.  Cyber Security Team 2.1P Updated .docx

Hi Melvin, Plz edit the roles, it should be "leader" or "member" and resend it ASAP 😊

Project Members

Member Name	Role	Task
Adam Bainey	Junior	Incident monitoring (research and implementation/strategy to place in GCP environment)
Carla Estella	Junior	Incident Monitoring (Research and Implementation)
Caitlin Parker	Senior	Incident Monitoring (research and implementation/strategy to place in GCP environment and create documentation for the system)
Stephen Tobechukwu Uzoka	Junior	

Q Search ...

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, U are welcome to edit/modify this to be used... 3/23 ...

3/20 2:05 PM Edited
Hi leaders,

Good news that OnTrack task 2.1P due date extended to 26 March, so we could edit our report and resubmit it.

Mark is taking care of the content table, and after he shared the edited file here, all other leaders to perform the following editions into their reports:

-Add your team's trello line into your team report,
-Add your road map
-Edit the font colours and font sizes to match the bellow style:

Font: Calibri (Body), size: 11,
Titles: Calibri (Body), size: 12,
Sub Titles: Calibri (Body), size: 11, Bold, blue colours

Regards,
Ella

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

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3/22 10:34 AM Edited
Morning Team,

Here is the edited version of our company report, which is the requirement of the Task2.1.

Please review your team report's section and apply the necessary updates (such as updating the member list, adding the Trello link/road maps and...)

PLEASE NOTE you are not required to apply any changes in terms of font styles or such, as it's already done.
DEADLINE: Thursday 23 of March, 11:00 PM

UpdatedCompanyReportT12023.docx ...

Providing the required links and documents to the members:

Q Search ...

Redback Operations IOT T12023 Chat Files +

3/20 11:54 AM
Redback T3HandoverDoc.pdf ...

3/20 12:42 PM
Content Management System <http://34.129.10.237/> Username admin password redback

Redback Operations IOT T12023 Chat Files +

3/22 10:10 AM JARROD YONG 3/22/2023, 9:19 AM for anyone in today i'm already in the room with the bicycle and ELLA KARIMI ZARANDI if you're around whats the username and passcod...
Username : pi password: capstone374

3/22 10:43 AM AHMAD RIAZ 3/22/2023, 12:56 AM Hey Ella, can you send me the link to trelloboard please., there is nothing coming up on my trello
Done, try and let me know if you have access or not

Redback Operations IOT T12023 Chat Files +

3/23 10:40 AM Here is a link to IOT Trello board, Please check it out and make sure you have a card/s assigned to <https://trello.com/b/ppeEiQf/iot-and-embedded-systems>

 Trello Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance, you can see what's due, who's working on what, and what's been completed.

12:44 PM Hi Team, I received a few texts about how to apply for Lab Access. You could use the following link to submit your request <https://apps.deakin.edu.au/keys-and-access/>

2:09 PM Edited Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app environment, enabling you to use select Deakin software from anywhere. <https://deakin365.sharepoint.com/sites/AppsandDesktopsAnywhere> ada.deakin.edu.au

WILLIAM DJOJODIREDO 8:38 PM ELLA KARIMI ZARANDI 4/13/2023, 2:09 PM Hi team, WILLIAM DJOJODIREDO You might like to use this link to search about Apps and Desktops (ADA). ADA is Deakin's virtual app...
thanks ella, I'll look through it tomorrow

Cyber Team – Problem Solving

2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLA KARIMI ZARANDI You are able to download it from Deakin unit site, and assessment resources, I have created one for IOT, you are welcome to edit/modify this to be used in your team IOT

4/5 11:53 AM Edited Morning Everyone

I would like to let you know that after some discussion I had with two of our teams' members about the issues they faced through their participation in their team and in order to address those issues and speed up the process of the project's progress in their team, we decided to make some changes in their team's hierarchical structure as below:

Cyber team :
Team leaders: Nasim Emadi, nemadi@deakin.edu.au
Caitlin Parker, cjpark@deakin.edu.au

Web-Design team:
Team leader: Avinash Maurya mauryaa@deakin.edu.au

Regards,
Ella

CP CAITLIN PARKER Chat Files Organization Activity LinkedIn +

4/3 9:36 AM
Hi Caitlin, I see u are taking care of all leadership tasks in cyber team.
Just I need someone to also attend to our weekly company meetings with the company directors so n Thursday.
As Melvin is on cyber leadership role, I texted him a few times on this regard, but noting back from him.
If it's u now that taking responsibility on this role plz let me know to add u in our team leader channel, so I could get some update about Cyber team progress

CP CAITLIN PARKER 4/3 6:59 PM
Hi Ella, it was not my intention to become the team leader I just didn't want to fail this subject ^.^
What time Thursday as I have another class on Thursday from 6-8 and work full time.

April 4

TG TAHLEA GRANT 4/5 6:47 PM
Hi Ella, I am just writing as I stumbled across a message from Jikuan and would like some clarity as well as to maybe provide some clarity myself. The message that I received was in regards to the project and how we are servery behind, which I am aware of. I am not sure if it had been paraphrased but in the message it said we should focus on producing 'meaningful work' instead of research and documentation. While I fully agree, and assume the meaning was more tangible work such as code. The repo location was not made known to us until the 27/3 which was all of a week ago. Until this point I had no knowledge of what the code even looked like or what language it was in. Which already placed us in week 4 with no resources related to the project, which is why researching and locating the deliverables was crucial here. This problem prompted me to focus on making some more comprehensive documentation which will encapsulate everything and aid in the continuity and handover of this project for trimester 2, as I believed it would allow for an almost immediate transition for everyone (in tri 2) to start working on the repo and know what the next steps are as it would be documented. After I complete this as well as some upskilling in Java I fully intend to be more hands on and produce tangible code modifications, but it is challenging to do that when I have had the material for only a week. I would love to hear your thoughts on this, if you feel this is inadequate still please let me know so we can work out something for us both. I am also aware you have more capstone knowledge than me so any advice would be great, as hearing this has made me quite worried. Thanks so much in advance 😊

4/5 7:14 PM
Hi Tahlea,
Hope you doing well,
As I also mentioned to Jikuan, you are required to work 100 hours in this unit, and you should be able to provide evidence to showcase that time participation.
You could only spent 20 hours on research and 20 hours on upkilling through entire this Tri, then u need to be able to show you have worked 40 hours on the project progress and then 20 hours for documentation.
We are in the middle of the term and by now you are expected to have enough evidence to show, about 50 hours participation in the Cyber team,
There are three people in that project, so it means that in total we need to see 150 working hours on that project,
This morning after the discussion I had with Jikuan, he wasn't able to showcase that 150 hours team working in the project. Also based on the fact that the "2FA" is an existing project, so I couldn't get it why you had to spend 150 hours just on research, and what the result is?
After spending this amount of time on research why still we don't have any plan for the progress? Why the process is not clear? Why the task are not scoped out and assigned to the members?
We do have another meeting tomorrow at 9:30am, you are welcome to attend and explain more about the result of that 150 hours research.
Regards,
Ella

Thanks for getting back to me so quickly I really appreciate it.

As a junior student I don't have any particular answers as to why things aren't scoped out or aligned well, as it was to my knowledge that this is the responsibility of senior students and leadership students of which I am neither.

To my knowledge no one has claimed to have spent that much time on research, although I understand that you are suggesting we should have spent that much time on the project I can say, at least for myself, due to the inability to locate resources my time allocation and ability to work on this project was limited. You are correct 2FA was an existing project which had documentation sprawled around everywhere and the issue was that exactly. Which is why I was moving toward creating that documentation.

I agree fully we are behind and this project lacks direction and honestly if your recommendation is to find a different project with actual aims and plans I will happily move across. I am genuinely asking for help I am not trying to argue any points. I am saying we had issues finding any documentation and resources which lead us here but I am aware there is more to it than just that now.

So again if you recommendation is for me to move to a project in which I can be a more active member I will take that on and do that. Ultimately I do want to contribute and do well in this unit and obviously I am currently not so I would like to work with you or with your advice to change that.

Unfortunately I am in class at 9:30 so will not be able to attend but thank you for the offer. If there is another time I would like to chat with you. But I am genuinely asking for your help and advice I am not trying to say we did all those hours, I am aware we are behind.

Thanks, Tahlea

4/5 9:14 PM

Tahlea, no there's no need for u to change your project, just stay focused on your tasks and the project's progress plan, none of us are that behind, we just need to speed up the progress process and start to make some obvious visible progress in our projects



April 6



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7



TAHLEA GRANT 4/6 2:27 PM
Okay thank you very much

April 7

4/7 9:32 AM

Hi Tahlea,
Just updating u about the result of my meeting with Jakuan,
He is to scope the project and assign and clear the task to u

Has he reached out to u to organise a meeting?



NASIM EMADI Chat Files Organization Activity LinkedIn +

NE NASIM EMADI 4/2 5:17 PM

Hi Ella, hope you have had a good weekend. I am the leader of the vulnerability management/project3 of cyber security. I am actually wondering to know when is the weekly meeting with the company's directors, I was not, unfortunately, following what required till now about having regular meetings with the company director (or mentors advised by Lennon one of the unit chairs). I really appreciate it if you notify me when is next meeting and how could I watch any recorded meetings with the director if there were and get up to speed with the project. thanks

4/2 10:21 PM

Hi Nasim,
Meeting with the company director is on Thursdays at 1:00 pm, which we prefer one person from each team attends to the meeting. (first option is team leaders, but if they are not able to attend another person to cover them)
U may ask Melvin about his plan of attending to that meeting, if he is not able to make it then u could attend on behalf of Cyber team,
In terms of recorded files, We have a team leader's channel that I always share the recorded meetings with directors there,

In terms of other meeting that recently is posted by unit chair and Lennon. They are going to give us a few times to pick, I haven't hear back from them yet, will update u, as soon as I get any news about those meetings

Regards,
Ella

April 3

NASIM EMADI 4/3 9:04 AM

thanks Ella, so I conclude that there is no need to participate in any meeting by myself just you or Melvin will be responsible?!

4/3 9:23 AM

Yep, I prefer one member from each team participate to our meeting with the directors, to talk about their team overall, their projects' progress and their workflow and plans, as I mentioned, u need to talk with Melvin, and as he never attended in any of the meetings till now, actually I would suggest u cover him for those meetings, so at least we have some updates on cyber's team as well,

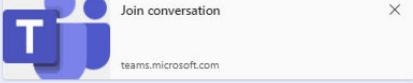
I sent him text in other day, but didn't get any response

Available Data and resources to other teams

Project Sun Cycle(VR) Chat Files +

NE 5/11 7:18 PM

Hi Everyone Here is the link to our tonight's meeting https://teams.microsoft.com/l/meetup-join/19%3ameeting_MmU0ZmNiOWEtZE3NC00YTV5LTjNTltYTbkN2Q5NzdiMDEz%40thread.v2/0?context=%7b%22id%22%3a%22d02378ec-1e88-46d5-8540-1c28b5f470f6%22%2c%22oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



5/11 10:12 PM Edited
Guys, I found these in the handover doc

The VR game is a Unity game which needs to be downloaded from the Project Sun Cycle Repository in Plastic SCM. This requires permission from the VR team leader, as there are only three seats available in the free tier before charging \$7 per user per month and locking the project. If developer access is not required, it may be preferable to obtain a zipped build of the game which is about 150 MB. The Windows build has been tested and works with keyboard controller. To enable receipt of MQTT commands from the bike, find the player avatar (called Skateboard Shader Cel) and enable the checkbox for UseBikeSpeed in the Inspector. This instructs Unity to connect to the MQTT broker (using the credentials in the MQTT GameObject) and subscribe to the bike's topics. When speed data is received, it is scaled and applied to the forward transform of the avatar, although keyboard or VR controller is still required for steering sideways or backwards.

Edited
Guys, checking the handover doc, I think you need to download the Project Sun Cycle Repository in Plastic SCM, as the VR game is a Unity game which needs to be downloaded from the Project Sun Cycle Repository in Plastic SCM

Deliverable: Create Summary of Race Interface

Description: Designed and implemented an interface showing relevant statistics of the race. Includes personal results and how well the user stacked up against the competition.

Trello Ticket: <https://trello.com/c/ytPerGIN/79-create-summary-of-race-interface>

Unity Project: Can be found in the 'MainScene' scene of the /main/mqtt branch of the Project Sun Cycle Unity project

Deliverable: Menu for Cycling Against Friends/Ghosts Feature

Description: Designed and implemented an interface to the existing main menu of the Project Sun Cycle Unity project for the

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

ELLAR KARIMI ZARANDI You are able to download it from Deakin unit site.and assessment resources. I have created one for IOT. U are welcome to edit/modify this to be used in your team IOT Worklog ... 3/23 ...

Edited
We need to have this task done, by end of this Tri:
Make the user's data available to them by integrating the CMS pages into the existing website, with login authentication protecting it.

To protect it: Cyber
To make it available or display it on the website: Web/design

A 2023T1 Capstone Redback Lead... Chat Files Onboarding Report +

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Michelle Yu removed ADRIAN GRIGO from the chat.

3/17 10:58 AM
I am currently studying through the docs and links, so will share with u some TASKS/plan ideas,
which u could consider as your plan for the coming week/weeks (u are also may include these in your team report, as achievable goals)
How to get access to your required data sets:
- We do have CMS in place, that u could get access using following link:
Content Management System <http://34.129.10.237/> (Username admin password redback)
TASK :Research how u could use CMS to retrieve data, (go through docs/get in touch with the previous team leaders/ No luck? come back to me)
-The mobile and VR apps run directly from the MQTT server and don't use the CMS at all.
TASK: Learn about how u could access to the data through MQTT,(Go through docs, get in touch with the previous team leaders/ No luck? come back to me)

Problem Solving - VR Team

D H Project Sun Cycle(VR) Chat Files +

5/10 9:20 PM
Hi Everyone

I would like to organize an URGENT MEETING with all members in VR team for tomorrow night at 8:00 pm,
Please note that attendance the meeting is compulsory for everyone.

I will send the meeting link here tomorrow morning,

Regards,

Ella

5/10 11:05 AM Edited

Morning Everyone

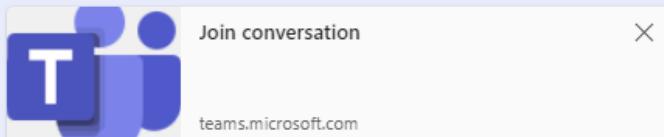
Here is the link to our tonight meeting at 8:00 pm,

Also checking GitHub, it's a while since some teams haven't pushed any updates to their Repos, and as I haven't received their reports from them and also they failed to attend the meetings, so I have no idea about their team's progress,

I would like everyone to attend our meeting tonight; if you are not able to make it please be sure that you have updated the GitHub, so at least I could track your progress from there.

Regards,

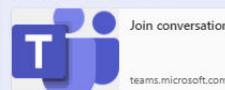
Ellahttps://teams.microsoft.com/l/meetup-join/19%3ameeting_MjQwMDc2YzMjI3Mi00ZDc5LThlZjAtMzZkOTBkZGEwYTg0%40thread.v2/0?context=%7b%22Tid%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



Project Sun Cycle(VR) Chat Files +

5/11 7:18 PM

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X

2

5/11 10:12 PM Edited
Guys, I found these in the handover doc

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Unity Project: Can be found in the 'MainScene' scene of the /main/mqtt branch of the Project Sun Cycle Unity project

Deliverable: Menu for Cycling Against Friends/Ghosts Feature

Description: Designed and implemented an interface to the existing main menu of the Project Sun Cycle Unity project for the

Monday 3:02 PM

Hi Everyone

Just a heads up, I talked with Kevin about purchasing the extra data, he mentioned I have to take it to Jesse, I emailed Jesse, but no response yet

1

I think for now I create another Repo for u guys to be able to push your updates, till we get response from Jesse

1:04 PM

Hi Guys, The data storage applied to the repo, now u should be able to move all the codes to the redback VR repo

let me know if u had any problem



NATHAN JAMES FAIRCHILD 7:15 PM
hey what needs to be done tonight?

7:21 PM

Hi Everyone, is there any update on the project?

also wondering are u guys able to create your showcase video by Monday, so I could present it on our company presentation on Tuesday



STEVEN MAKRIS 7:25 PM
will get back to you. i need to finish a task before 00:00



7:26 PM

NATHAN JAMES FAIRCHILD 5/19/2023, 7:15 PM
hey what needs to be done tonight?

the urgent task for now is the presentation slides or showcase video for our company presentation

4/22 6:06 PM Edited

Hi Nasim

Thanks for the file,

You need u to go through the Deliverables as well, and add some explanation for each, such as what have u done till now for each planed goal, why u chose that strategy? done with who? is it completed or not, if not what your plan is to complete and implement those plan.

After completing your report, plz add it to the shared file located in leadership channel.

Let me know if u needed any assistance or had ant questions.



Tuesday 7:37 AM

Morning Everyone

Good news that's Jesse accepted to pay for the extra data, 😊

I thought I sent the text here to notify all of u, but looks like I have sent it just to Hilal by mistake

Edited

NATHAN JAMES FAIRCHILD 5/15/2023, 7:31 PM

well if that's the case than we need to wait for her to make a new repo
so we can continue to work

I talked with Jesse and he mentioned it's better every team have only one Repo, so he will implement the extra data to the current repo I believe

Tuesday 7:44 AM Edited

Everyone checking the repo I believe the extra data storage hasn't been added yet,

I would like everyone to keep working on their assigned tasks and plz don't pause working towards completion



NATHAN JAMES FAIRCHILD Tuesday 11:18 AM



Thanks ELLA KARIMI ZARANDI just keep us updated



Tuesday 11:37 AM

Here is the link to our tonight meeting at 7:00 pm,

IMPORTANT I would like @everyone to attend

Regards,

Ella https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZGZhZjI2M2UtM2VhNy00OTE4LWI0ZTEtOGFmMDUyZDdjYTZm%40thread.v2/0?context=%7b%22Id%22%3a%22d02378ec-1688-46d5-8540-1c28b5f470f6%22%2c%22Oid%22%3a%22ac39738c-d4a0-4c69-a116-0ff43742b13a%22%7d



Join conversation

X

teams.microsoft.com

Tasks

6:33 PM

HILAL IRSHAD 5/21/2023, 2:51 PM
Hi Ella! hope you are doing well, I almost finish my task which we all team faced difficulty with collider issue. with the new scene of city...

It's not me who should accept the extensions for the tasks, it's the unit chairs decision, sorry Hilal

HILAL IRSHAD 5/21/2023, 2:51 PM
Will it be problem if i submit it late?

I would say just try to submit it, submitting late is much better than not submission at all, also I would but some explanation for the late submission

1

8:30 PM

Tung, I've added u to the Junior presentation chat channel, so u could update Tomas about your project, and he could talk over your video, as there isn't any voice on that video

THE TUNG TRUONG 8:33 PM

ELLA KARIMI ZARANDI 5/21/2023, 8:13 PM
your showcase doesnt have any voice

I see, that is weird

ELLA KARIMI ZARANDI 5/21/2023, 8:30 PM
Tung, I've added u to the Junior presentation chat channel, so u could update Tomas about your project, and he could talk over your...

So I will do the presentation for both Junior and Senior for my team right?

8:46 PM

THE TUNG TRUONG 5/21/2023, 8:34 PM
So I will do the presentation for both Junior and Senior for my team right?

No u are not able to present for juniors

u just get in touch with Tomas and explain the showcase video for him, and he will present for u

NASIM EMADI 4/3 11:21 AM
I believe that should provisioned to Deakin email address

nemadi@deakin.edu.au

I guess there is an organisation unit when you login to github then you need add me to that organisation in Github

4/3 11:24 AM

there isn't any organization unit, we have Github repo for each team, I will add u to the Cyber team

1

NASIM EMADI 4/3 11:25 AM
Should I have access to add my team members or you will onboard them?

4/3 11:25 AM

done

<https://github.com/redbackoperations>

 redbackoperations - Overview
redbackoperations has 9 repositories available. Follow their code on GitHub.
github.com

as all the Repos are public if u just provide them this link they will be able to clone, fork and create their branch

Hi Ella, I am ready if you want to have a quick call here

NASIM EMADI 4/5 7:56 PM
nemadi@deakin.edu.au

4/5 7:59 PM
<https://trello.com/b/kj9wulDB/cyber-security>



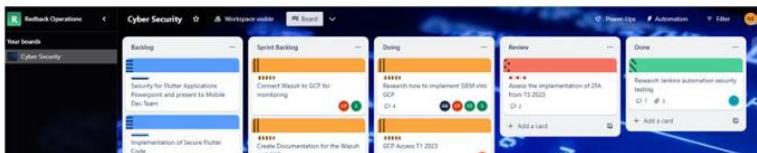
Trello

Organize anything, together. Trello is a collaboration tool that organizes your projects into boards. In one glance...

trello.com

NASIM EMADI 4/5 8:27 PM

Just a quick one. Should I add new board for my project in this new trello or add my project tasks with different lable/colour to existing board?



I tried to make time with haris to work on that task but he is not catching up with me so i finally got to the lab alone today

I am trying to figure out how to make it work without needing the app but if we work it without the app the user won't be able to choose the workout right?

I mean if there is no app there is no user interface?

4/20 12:20 PM

AHMAD RIAZ 4/20/2023, 12:19 PM

I am trying to figure out how to make it work without needing the app but if we work it without the app the user won't be able to...

Ahmad, I really need u to attend the meetings, as Im not able to run everyone individually

now the plan is changed, as taking with mobile team, they were able to run the app, now Im organizing a meeting with both IOT and Mobile team, So we could work together on these projects

AHMAD RIAZ 4/20 12:22 PM

ELLA KARIMI ZARANDI 4/20/2023, 12:20 PM

Ahmad, I really need u to attend the meetings, as Im not able to run everyone individually

Yea I understand i am sorry for that just stuck with work in evenings. I will surely attend next meetings

14 Responsible Team Member Achievement

Show that you have achieved the standard needed of a responsible team member across the unit

Date	Author	Comment
2023/05/21 23:46	Elaheh Karimi Zarandi	Ready to Mark
2023/05/25 16:52	Fatemeh Ansarizadeh	You need to provide the evidences in the 10.1P and do not have to repeat them here so this document would be shorter. Please modify it and resubmit it.
2023/05/25 16:53	Fatemeh Ansarizadeh	Fix and Resubmit
2023/05/27 09:03	Elaheh Karimi Zarandi	:+1:
2023/05/27 22:24	Elaheh Karimi Zarandi	Ready to Mark
2023/05/27 22:24	Fatemeh Ansarizadeh	Time Exceeded
2023/05/27 22:25	Elaheh Karimi Zarandi	Done!
2023/05/29 15:16	Fatemeh Ansarizadeh	Complete
2023/05/29 15:24	Fatemeh Ansarizadeh	Well done Elahe, you have submitted a well-written report. All pieces of evidence are relevant and have backed with appropriate caption. GLOs have also achieved clearly. Thank you
2023/05/29 22:49	Elaheh Karimi Zarandi	Hi Fatima, Just wondering why the status of my work is Time Exceeded?

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Responsible Team Member Achievement

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/05/27 22:24

Tutor:

Fatemeh ANSARIZADEH

May 27, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699
Target grade: HD

Responsible Team Member Progress Report

Plan

This trimester I will be working as IOT team leader and also will be taking part in some of the AI projects. I have Strong working knowledge of data tools and analytical skills such as SQL, Python(Scikit-Learn, NumPy, Pandas,...), Tableau , R and Excel to identify business problems and solve them with scientific approaches.

Also I am familiar with a wide array of programming languages and technologies such .Net, C#, HTML5, ASP, CSS3, Java , Node.js, React, By joining to Redback Operations, I wish to put my technical knowledge into practice, while I'm learning and growing new skills, such as GCP, mqtt and BigQuery

Progress Update

In order to be able to perform company leadership duties efficiently, and planning and monitoring the company's projects, the first step was to learn about the company's objective and the status of each team's projects, to identify the existing problems and analyse each products' requirements to be able to plan the possible solutions and develop strategies.

So during the first two weeks I used the available resources to make it clear to myself about involved technical expectations of the company leader, to be able to up-skill myself in all the tools and coding languages which were utilized by the entire company, to be able to collaborate and communicate with different teams.

Existing Accessible Resources that Referred to:

- Studied through the handover document,
- Conducted meetings with the previous company leader, "Adrian" and the current AI team leader, "Mark"
- Learned through the GitHub
- Went through resources accessible in the Chat channels
- Referred to the last Trimester Trello boards

Technical Participation during working with the Redback company:

Fitness Tracker Project:

The aim of this project is to implement a foundational tool to collect data from users and their workouts to be able to provide them with a regular fitness routines and workouts to make their exercise performance more effective.

In this project the data set which has been used, called "Master_Data" which is accessible through BigQuery.

This project has different components as bellow:

- ❖ Data Dictionary
- ❖ Data Pipeline
- ❖ BMI Calculator
- ❖ Feedback Analysis
- ❖ The Corporate Reporting

1- Data Dictionary

Established a data dictionary and placed in GitHub to allow others to understand the data variable names and values.

[Fitness data master data set](#)

Fields	
Distance	<i>show distance in either miles/feet (statute units) or kilometers/meters (metric units)</i>
Enhanced_altitude/Altitude	<i>To determine the rider's elevation which means the total number of feet the rider climb in a ride)</i> <i>This information is recorded during the activity and is used to report elevation related information in Garmin Connect.</i>
Ascent	<i>A climb or walk to the summit of a mountain or hill/an instance of rising or moving up through the air.</i>
Total Ascent	<i>A total of elevation gain which means the total number of feet the rider climb in a ride</i>
Average Ascent	<i>Provides an average of all ascents recorded during an activity</i>
Maximum Elevation	<i>Provides the highest elevation achieved.</i>
Grade	<i>Data field for Garmin devices that calculates the slope (or grade) of the hill users are walking on</i>
Calories	<i>This is the total of active and resting calories that are calculated during a recorded activity on your device (from the moment that you start the timer for the activity to the moment you stop the timer)</i>
Speed/Distance Algorithm:	<i>This is the most basic method of determining calories. It is represented in calories/Kcal.</i>
Speed/Enhanced Speed:	<i>It is distance by total time sent on an activity. It is calculated in m/sec or m/h. If the values of speed are too large to be fit in speed, then enhanced speed is used.</i>
Heart_rate:	<i>heart rate values can be set as absolute or relative values. Absolute values represent beats per minute (bpm) for heart rate, or watts for power.</i>
Temperature:	<i>The Temperature widget will display the ambient air temperature near the barometric altimeter port. This reading can be affected by body heat. It is represented in Fahrenheit.</i>
Cadence	<i>The cadence fields in a FIT file represent RPMs. For cycling 1 RPM equals one full rotation of the cranks Cadence in cycling is the number of revolutions your pedals make per minute as you ride. revolution per minute(RPM)</i>
Power	<i>Power values can be set as absolute or relative values. Absolute values represent watts for power.</i>
Left_right_balance	<i>It shows as a percentage the power separately put out by the left and right leg.</i>
Session_ID	<i>It is unique id generated for each session performed by user</i>

User_ID	<i>It is the unique ID generated for every user</i>
Weight	<i>It gives the weight of the person in kgs</i>
Gender	<i>It Shows gender of registered person of the device</i>
FTP	<i>Functional Threshold Power (FTP) is a measurement from power meters. It is the highest power level you can maintain for one hour without growing fatigued. FTP is beneficial because it provides an outlook on performance ability.</i>
Age	<i>Available on select Garmin watches, Fitness Age is an estimate of how fit you are compared to your actual age. Compatible Garmin watches will measure your Fitness Age differently, depending on which device you have. Fitness age is an estimate of how fit you are compared to your actual age</i>
Product_Name	<i>It describes the product used for recording the activity.</i>

Link to the Wahoo Introduction

<https://cloud-api.wahooligan.com/#introduction>

[Link to GitHub](#)

[Link to Ms Team](#)

2- Data Pipeline

Conducted research about the data pipeline in Redback Company and provided a copy for other members in GitHub and MS Team,

The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.

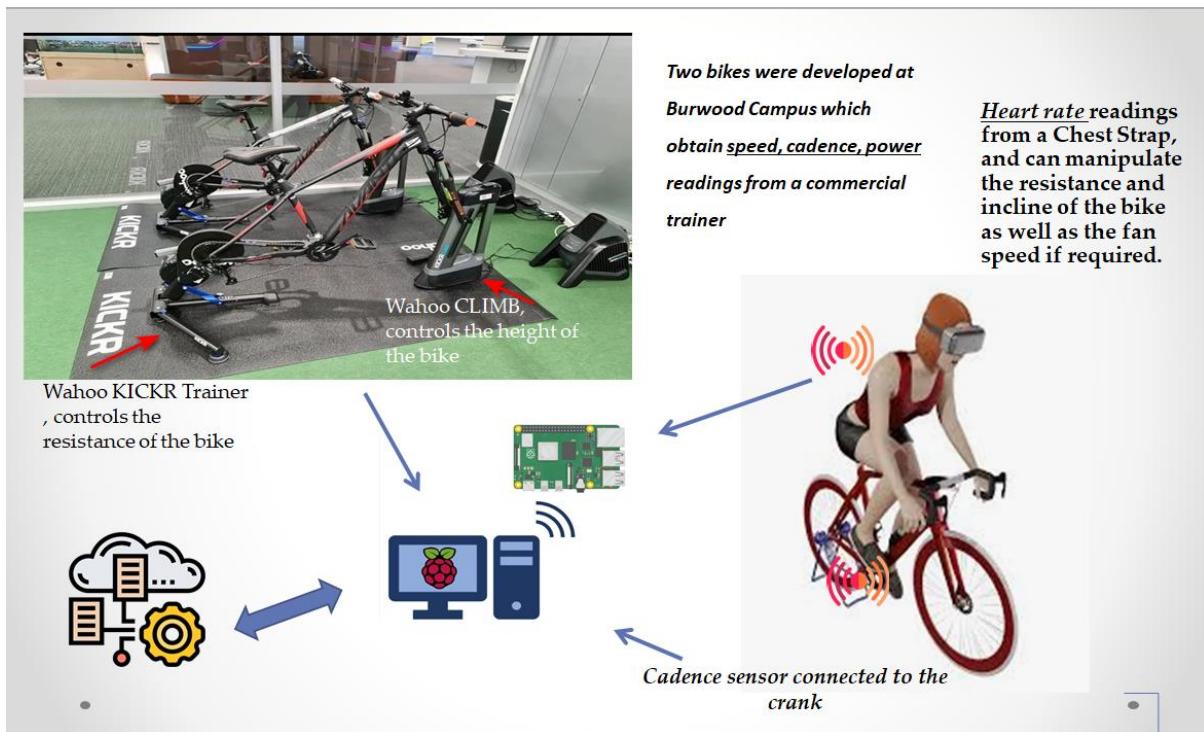
Here is the result of my research:

The Data Origin and Data Pipeline in Redback Company:

At Redback company we utilize “Contact Management System” (CMS). The data is received from bike’s sensors (Whaa) via Bluetooth using a Raspberry Pi and submitted via MQTT to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python to get data from riders and sending it off to the mobile app to get used.

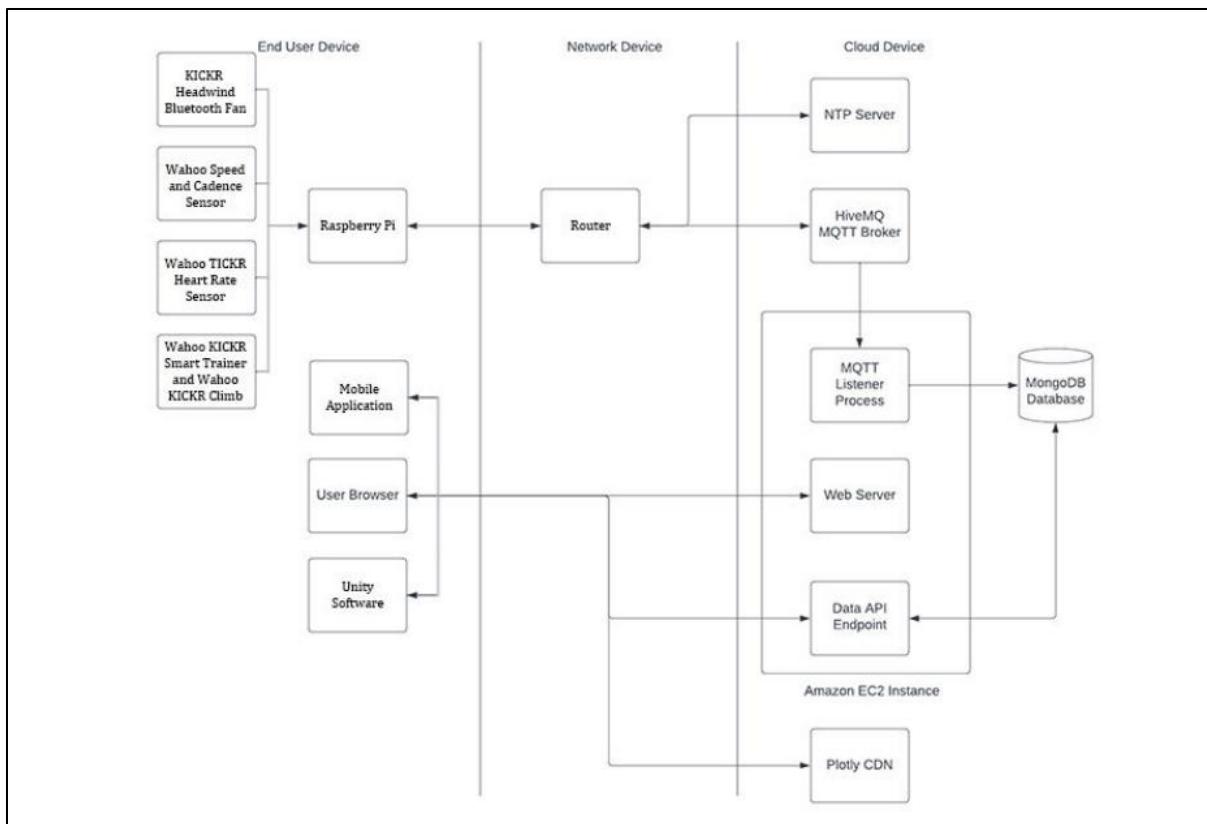
The protocol used for this data transport mechanism used by drivers is MQTT.



The CMS is currently hosted at <http://34.129.10.237> that is under the company owned GCP account.

The dashboard shows an overview of the data collected and displays the recent stored sensors data in real time (if there's any activity using the mobile cycling fitness app), the bikes page can be used to set up additional bikes, the devices page used to provide details for additional sensors, and device data used to search or edit the collected data.

UML Diagram



For more detail see the *Sensor Architecture report* in GitHub, under *Tri 3 2023 folder*

[Link to Ms Team](#)

[Link to GitHub](#)

3- BMI Calculator

A BMI Calculator has been implemented using python, as we don't have the height field in our current database to be able to calculate the BMI, so on the model that I've implemented it would ask the user to input their height and weight and then it would calculate the BMI.

Summary of BMI and the benefits and limitations:

BMI(Body Mass Index) is one of the most common ways of grouping people by their weight.

A History of BMI:

BMI was first developed in the mid-1800s by a polymath called Adolf Quetelet. The purpose was to measure people's weight in relation to their height, by dividing their weight in KG by their height in meters squared. Scientists have created BMI categories to group people according to how far their weight is from the norm for their height.

The categories of BMI:

- BMI less than 16, classified as "Severely Underweight".
- BMI 16 to <18.5, classified as "Underweight" range.
- BMI 18.5 to <25, classified as "Healthy weight" range.
- BMI 25.0 to <30, classified as "Overweight" range.
- BMI 30.0 or higher, falls within the "Obesity" range.

Benefits:

- *Easy to measure,*
- *No expensive equipment needed,*
- *It is quick and cheap to work out,*

Limitations:

- *BMI is not a way of diagnosing body fat,*
- *Categorizing people based on their BMI could lead to weight stigma,*
- *BMI is not an appropriate measure for children*

The following code will receive "Height" and "Weight" from user to calculate and round the BMI to 2 decimal places and shows the user's BMI category using a function called "BMI". Also this code will check the entered values for "Height" and "Weight" and if it's not valid, it will respond "Incorrect Data"

```
In [77]: h = float(input('Enter height in Meter: '))
if (h >= 1.0 and h <= 2.5):
    height = h
else:
    raise Exception("Incorrect Data, Please enter your height in Meter ")

w = float(input('Enter weight in KG: '))
if (w >= 10 and w <= 1000):
    weight = w
else:
    print("Incorrect Data, Please enter your weight in KG ")

def BMI(height, weight):  #BMI Function to calculate BMI
    bmi = round(weight/(height**2), 2)

    if (bmi < 16):
        return 'Severely Underweight', bmi

    elif (bmi >= 16 and bmi < 18.5):
        return 'Underweight', bmi

    elif (bmi >= 18.5 and bmi < 25):
        return 'Healthy', bmi

    elif (bmi >= 25 and bmi < 30):
        return 'Overweight', bmi

    elif (bmi >= 30):
        return 'Obese', bmi

calculation, bmi = BMI(height, weight)
print('Your BMI is: {} which is {}, the normal BMI is between 18.5 to 25'.format(bmi, calculation))
```

```
Enter height in Meter: 1.70
Enter weight in KG: 60
```

```
Your BMI is: 20.76 which is Healthy, the normal BMI is between 18.5 to 25
```

After you run the code, it will ask for height and weight

Enter height in Meter:	1.6
Enter weight in KG:	<input type="text" value="58"/>

And then it will calculate and return the BMI,

Your BMI is: 22.66 which is Healthy, the normal BMI is between 18.5 to 25

[Link to GitHub](#)

4- Feedback Analysis

This project aims to train and prepare a “feedback analysis model” to be used at the time that we would have the “feedback” feature for any of our products.

As currently we don't have a “Feedback” feature in our products, so I will be using an “Amazon food reviews and rating” dataset in csv format (which are text reviews and rating the food out of five stars)

- The Vader Model is developed
- Ran NLTK word tokenizer to splits the feedbacks
- The required Tokens are generated
- Sentiment scores are generated and added to the current dataset

The Python has been used to create the Model:



the plot we can see frome that most of the reviews are 5 stars

```
In [83]: # Test 2
sia.polarity_scores('This is the worst thing ever.')

Out[83]: {'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

In [4]: sia.polarity_scores('This is the best thing ever.')

Out[4]: {'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

Below indicates the project progress steps and the whole Python code:

- The required libraries imported:

The screenshot shows a Jupyter Notebook interface with the title "jupyter Feedback Analysis Last Checkpoint: 04/21/2023 (autosaved)". The toolbar includes File, Edit, View, Insert, Cell, Kernel, Widgets, Help, Run, and Code. The status bar shows "Not Trusted" and "Python 3 (ipykernel) C". The code cell contains the following imports:

```
In [ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

plt.style.use('ggplot')

import nltk
nltk.download()
```

Output:

```
showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

```
In [ ]: import nltk
nltk.download('maxent_ne_chunker')
```

```
In [ ]: import nltk
nltk.download('words')
```

```
In [28]: import nltk
nltk.download('vader_lexicon')

[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\ella\AppData\Roaming\nltk_data...
```

```
Out[28]: True
```

- The data set imported

The screenshot shows a Jupyter Notebook interface with the title "jupyter Feedback Analysis Last Checkpoint: 04/21/2023 (autosaved)". The code cell reads a CSV file and displays its head:

```
In [17]: # Read in data
feedback = pd.read_csv('Reviews.csv')
feedback.head()
```

Output:

	ID	ProductID	UserID	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5	1303862400	Good Quality Dog Food I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1	1346976000	Not as Advertised Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJXXAIN	Natalia Corres "Natalia Corres"	1		1	4	1219017600	"Delight" says it all This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2	1307923200	Cough Medicine If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5	1350777600	Great taffy Great taffy at a great price. There was a wid...

```
In [ ]: feedback.shape
```

Out[18]:										
	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5	1303862400	Good Quality Dog Food I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1	1346976000	Not as Advertised Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCH0	ABXLMWJXXAIN	Natalia Corres "Natalia Corres"	1		1	4	1219017600	"Delight" says it all This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2	1307923200	Cough Medicine If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5	1350777600	Great taffy Great taffy at a great price. There was a wid...

- Ran a Quick EDA to get an idea of what the data set looks like

Value count on Score column to see the number of times each score occurs

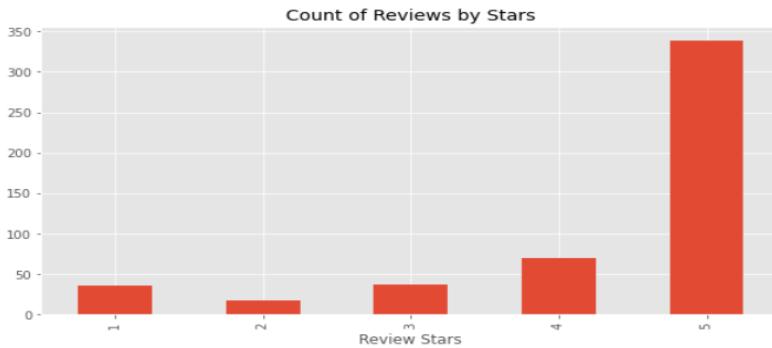
```
In [19]: feedback['Score'].value_counts().sort_index()
```

Out[19]:

1	36
2	18
3	37
4	70
5	339

Name: Score, dtype: int64

```
In [20]: ax = feedback['Score'].value_counts().sort_index() \
    .plot(kind='bar',
          title='Count of Reviews by Stars',
          figsize=(10, 5))
ax.set_xlabel('Review Stars')
plt.show()
```



From the plot we can see that most of the reviews are 5 stars

- Running NLTK work tokenizer to splits the sentence into the parts of each word in the sentence

```
ex = feedback['Text'][50]
print(ex)
```

This oatmeal is not good. Its mushy, soft, I don't like it. Quaker Oats is the way to go.

the result came back negative

```
tokens = nltk.word_tokenize(ex)
tokens

['This',
'oatmeal',
'is',
'not',
'good',
'.',
'It\'s',
'mushy',
',',
'soft',
',',
'I',
'do',
"n't",
'like',
'it',
'.',
'Quaker',
'Oats',
'is',
'the',
'way',
'to',
'go',
'.']
```

- Running the *nltk pos tag* for part of speech tagging

```
speech_tagged = nltk.pos_tag(tokens)
speech_tagged[:10]

[('This', 'DT'),
('oatmeal', 'NN'),
('is', 'VBZ'),
('not', 'RB'),
('good', 'JJ'),
('.','.'), 
('It\'s', 'PRP$'),
('mushy', 'NN'),
(',','.'), 
('soft', 'JJ')]
```

- **Grouping the Tokens into chunks of text**

```

entities = nltk.chunk.ne_chunk(speech_tagged)
entities pprint()

(S
  This/DT
  oatmeal/NN
  is/VBZ
  not/RB
  good/JJ
  ./.
  Its/PRP$ 
  mushy/NN
  ,/,
  soft/JJ
  ,/,
  I/PRP
  do/VBP
  n't/RB
  like/VB
  it/PRP
  ./.
  (ORGANIZATION Quaker/NNP Oats/NNPS)
  is/VBZ
  the/DT
  way/NN
  to/TO
  go/VB
  ./.)

```

Implementing the Vader Model:

Vader Sentiment Scoring

VADER(Valence Aware Dictionary for Sentiment Reasoning) is an NLTK module that provides sentiment scores based on the words used. It is a rule-based sentiment analyzer in which the terms are generally labeled as per their semantic orientation as either positive or negative.

VADER has the advantage of assessing the sentiment of any given text without the need for previous training as we might have to for Machine Learning models. The result generated by VADER is a dictionary of 4 keys neg, neu, pos and compound: neg, neu, and pos meaning negative, neutral, and positive respectively.

This module uses a “bag of words” approach:

- Stop words are removed
- Each word scored and combined to a total score
- This model is not account for relationship between words

```

from nltk.sentiment import SentimentIntensityAnalyzer
from tqdm.notebook import tqdm

#sia is an created object of "Sentiment Intensity Analyzer"
sia = SentimentIntensityAnalyzer()

```

Testing our object

sia.polarity_scores('I am so happy!')

The result is: negative as zero, neutral point = 0.318 and positive point= 0.682, So this sentence is mostly positive

```

# Test 2
sia.polarity_scores('This is the worst thing ever.')
{'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

sia.polarity_scores('This is the best thing ever.')
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}

```

The result is: negative point = 0.451, neutral point = 0.549 and positive point= 0 and compound: -0.6249 So this sentence is mostly Negative

```

# Running the sia on our tokens
sia.polarity_scores(ex)
{'neg': 0.22, 'neu': 0.78, 'pos': 0.0, 'compound': -0.5448}

```

The result is: negative point = 0.22, neutral point = 0.78 and positive point= 0 and compound: -0.5448 So this sentence is mostly Negative

Run the polarity score on the entire dataset, the result is a dictionary which stores the result of the below loop which each raw would

```

result = {}
for i, row in tqdm(feedback.iterrows(), total=len(feedback)):
    text = row['Text']
    myid = row['Id']
    result[myid] = sia.polarity_scores(text)

```

0% | 0/500 [00:00<?, ?it/s]

Here shows the result dictionary with each id that contain the scores of neg, neu, pos and compound which stored in a Panda data frame to make it easier to work with and displayed horizontally

```
pd.DataFrame(result).T
```

	neg	neu	pos	compound
1	0.000	0.695	0.305	0.9441
2	0.138	0.862	0.000	-0.5664
3	0.091	0.754	0.155	0.8265
4	0.000	1.000	0.000	0.0000
5	0.000	0.552	0.448	0.9468
...
496	0.000	0.554	0.446	0.9725
497	0.059	0.799	0.142	0.7833
498	0.025	0.762	0.212	0.9848
499	0.041	0.904	0.055	0.1280
500	0.000	0.678	0.322	0.9811

500 rows × 4 columns

So now we have a data frame that has index which is the IDs and the four neg, neu, pos and compound fields, we call this result Vaders

```
#vaders.reset_index().rename(columns={'index': 'Id'})
vaders["Id"] = feedback["Id"]
#vaders.merge(feedback, how='left')
#vaders.columns
```

```
vaders.columns
```

```
Index(['neg', 'neu', 'pos', 'compound', 'Id'], dtype='object')
```

```
vaders=vaders.merge(feedback, how='left')
```

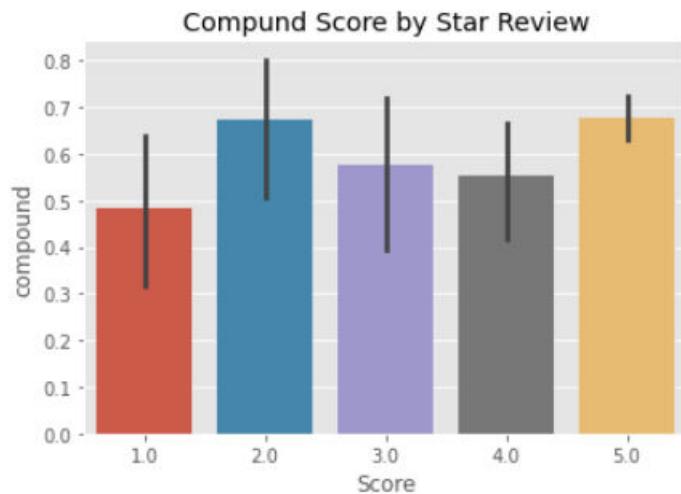
Now we have sentiment score added to the original fields

	neg	neu	pos	compound	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time
0	0.000	0.695	0.305	0.9441	2.0	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0.0	0.0	1.0	1.346976e+09
1	0.138	0.862	0.000	-0.5664	3.0	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1.0	1.0	4.0	1.219018e+09
2	0.091	0.754	0.155	0.8265	4.0	B000UA0QIQ	A395BORC6FGVXV	Karl	3.0	3.0	2.0	1.307923e+09
3	0.000	1.000	0.000	0.0000	5.0	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0.0	0.0	5.0	1.350778e+09
4	0.000	0.552	0.448	0.9468	6.0	B006K2ZZ7K	ADT0SRK1MGOEU	Twoapennything	0.0	0.0	4.0	1.342051e+09

Plot VADER results

Running the Plot on vaders' data by assigning x the score value which is the star review of the person and then compound is going to be our y value and that's the negative to positive.

```
ax = sns.barplot(data=vaders, x='Score', y='compound')
ax.set_title('Compound Score by Star Review')
plt.show()
```



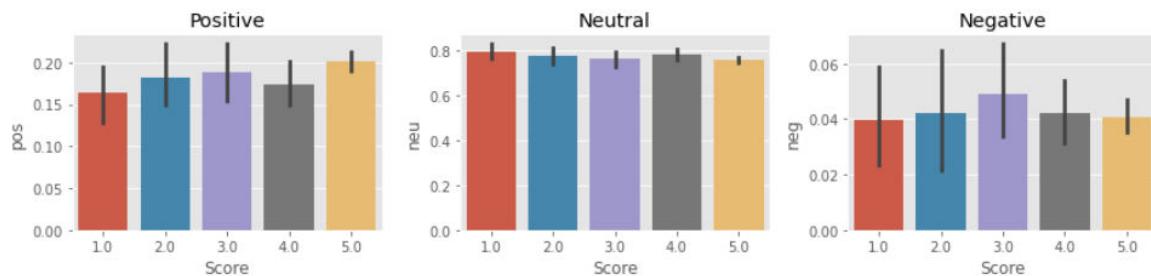
The plot shows that one star review has lower compound score and the five star view is higher

Running the Plot based on the positive neutral and negative scores

```

fig, axs = plt.subplots(1, 3, figsize=(12, 3))
sns.barplot(data=vaders, x='Score', y='pos', ax=axs[0])
sns.barplot(data=vaders, x='Score', y='neu', ax=axs[1])
sns.barplot(data=vaders, x='Score', y='neg', ax=axs[2])
axs[0].set_title('Positive')
axs[1].set_title('Neutral')
axs[2].set_title('Negative')
plt.tight_layout()
plt.show()

```



The plots confirm that our Vader Model is valuable in having the connection between the score of the text and sentiment score and it does relate to the actual rating review of the reviewers

[Link to GitHub:](#)

5- Fitness Summary Reporting

The aims of this project is to create the summary reports, using SQL queries on the “*fitness_data.master_data*” table accessible in the BigQuary.

In this project some dashboards designed using Tableau to visualize the user’s workouts reports

Summary Reports – All users

For the best measure of calories burned, the ELEMNT GPS devices series (including the ELEMNT, BOLT, ROAM, and RIVAL) and Wahoo Fitness app default to using calculations based on power output when a trainer or power meter are connected (if no direct power source is connected, heart rate will be used to calculate calories as described further below). Calories from power are calculated based on the following formula:

- **Calorie rate = (4.184kJ) * 0.239GMR**

In the calculation above, Kilo Joules (**kJ**) are measured from the trainer or power meter and multiplied by the Gross Metabolic Rate (**GMR**, an average of gross metabolic efficiency), estimated at 23.9% since 1 Calorie is equal to 4.184kJ of work and the human body is about 24% efficient at burning calories.

The MAX calories – By Month

```

SELECT DISTINCT EXTRACT(MONTH from date_AEST) AS month, userId, max(calories) as max_calories
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE calories IN

```

```

(SELECT max(calories) as max_calories
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'

```

```

    GROUP BY EXTRACT(MONTH from date_AEST)
)

```

```

GROUP BY userID, month
ORDER BY month

```

The MAX Distance – By Month

```

SELECT f.date_AEST, f.userID, max(f.distance) as max_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
inner join

```

```

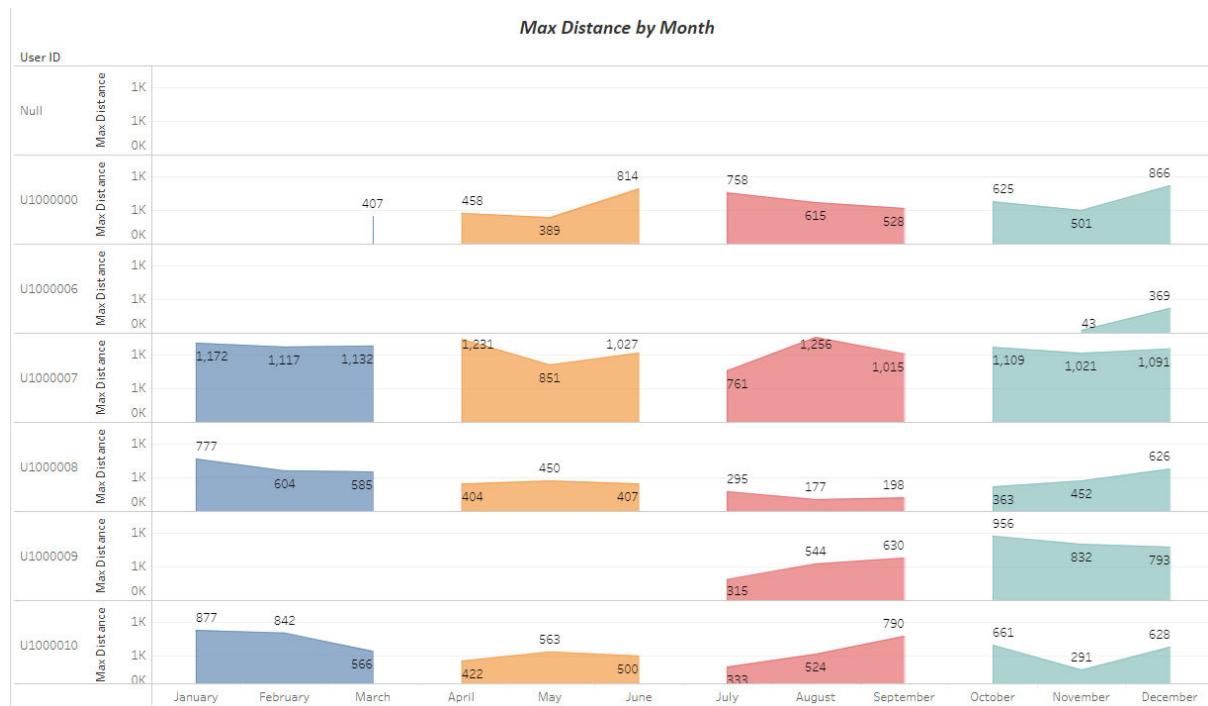
(SELECT s.userID, max(s.distance) as max_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
GROUP BY EXTRACT(MONTH from s.date_AEST), s.userID
)

```

```

ON f.userID = s.userID and
GROUP BY f.userID, date_AEST

```



Total Calories and Distance for all users by each date – 2021

```

SELECT userID, date_AEST AS dates, Round(SUM(calories)/4.18) as total_calories,
Round(SUM(distance)/1000)AS total_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
WHERE (date_AEST BETWEEN '2021-01-01' AND '2021-12-31')

```

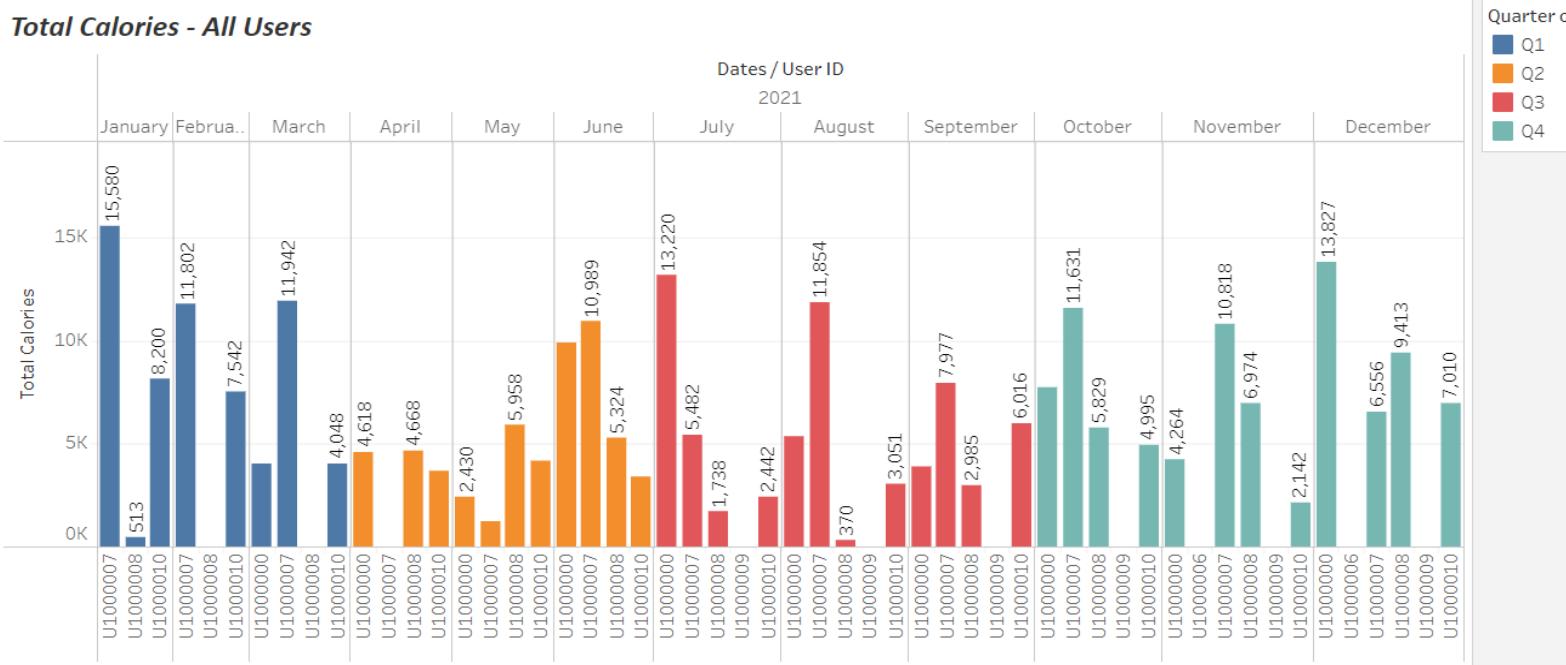
```

GROUP BY date_AEST, userID
ORDER BY date_AEST

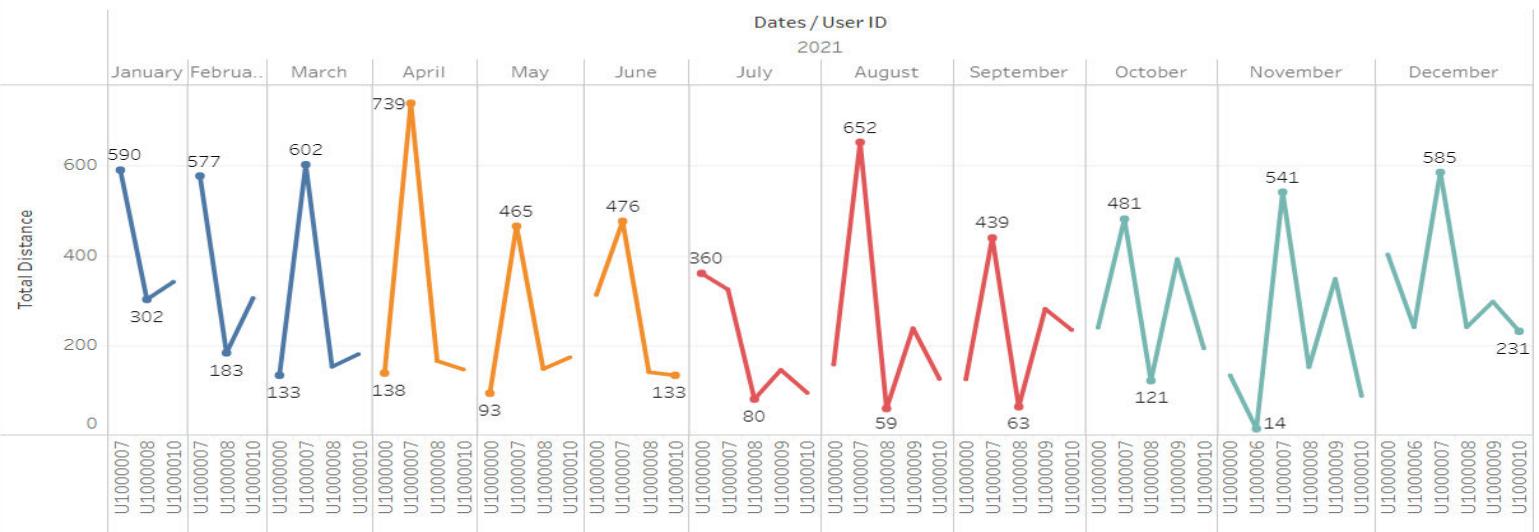
```

Row	userID	dates	total_calories	total_distance
1	U1000007	2021-01-01	3293.0	66.0
2	U1000007	2021-01-02	3791.0	70.0
3	U1000010	2021-01-02	101.0	5.0
4	U1000007	2021-01-03	122.0	8.0
5	U1000007	2021-01-05	749.0	16.0
6	U1000010	2021-01-07	1308.0	54.0
7	U1000010	2021-01-08	77.0	4.0
8	U1000007	2021-01-08	1205.0	28.0
9	U1000008	2021-01-08	null	3.0
10	U1000010	2021-01-09	568.0	22.0
11	U1000007	2021-01-09	null	106.0
12	U1000008	2021-01-09	233.0	31.0
13	U1000008	2021-01-10	null	11.0
14	U1000007	2021-01-10	1291.0	49.0

Total Calories - All Users



Total Distance - All Users



Total Distance - All Users

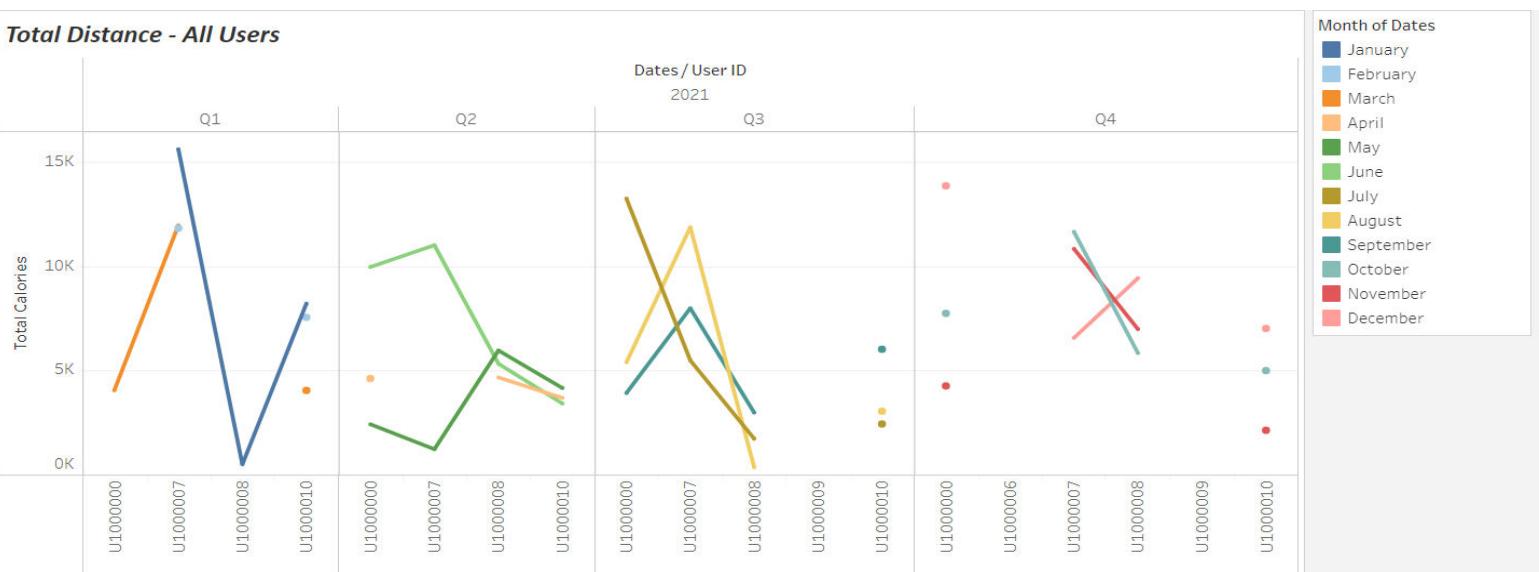
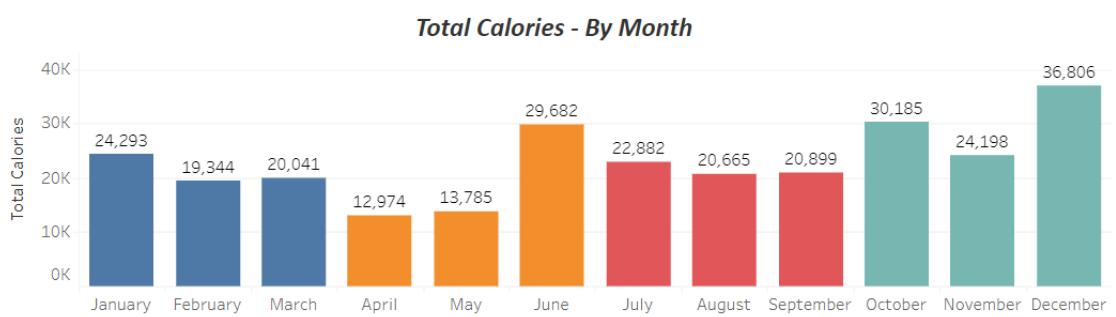
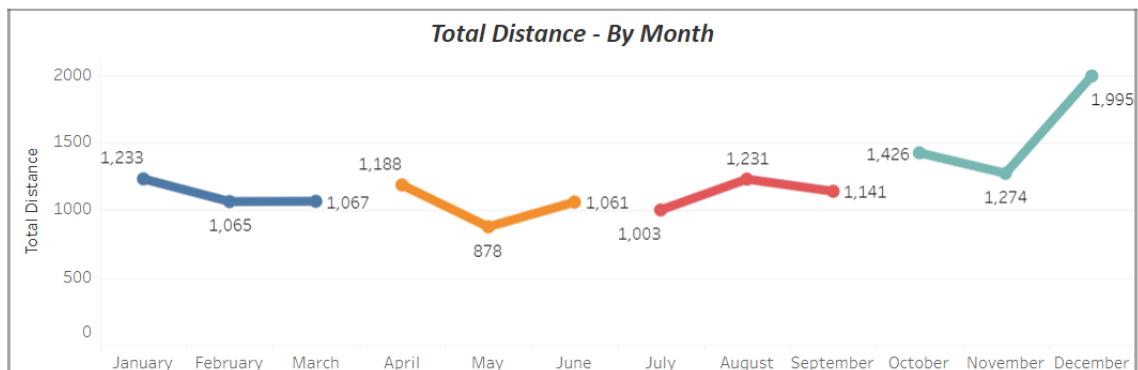


Tableau Dashboard - Total Report by Month (All Users)

Tracking Summary Report

2021 - All Users

Month of Dates	Total Calories	Total Distance
January	24,293	1,233
February	19,344	1,065
March	20,041	1,067
April	12,974	1,188
May	13,785	878
June	29,682	1,061
July	22,882	1,003
August	20,665	1,231
September	20,899	1,141
October	30,185	1,426
November	24,198	1,274
December	36,806	1,995



- Average, MAX and MIN distance and calories for all riders – By Month

SELECT

```
EXTRACT(MONTH from date_AEST) AS month,
round(AVG(calories)) as avg_calories,
Round(AVG(distance))AS agv_distance,
round(MAX(calories)) as max_calories,
Round(MAX(distance))AS max_distance,
round(MIN(calories)) as min_calories,
Round(MIN(distance))AS min_distance,
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
```

WHERE date_AEST BETWEEN '2021-01-01' AND '2021-12-30'

GROUP BY month
ORDER BY month;

Monthly Calories and Distance Report - All Users (Average, MAX and MIN)

Month of d..	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0

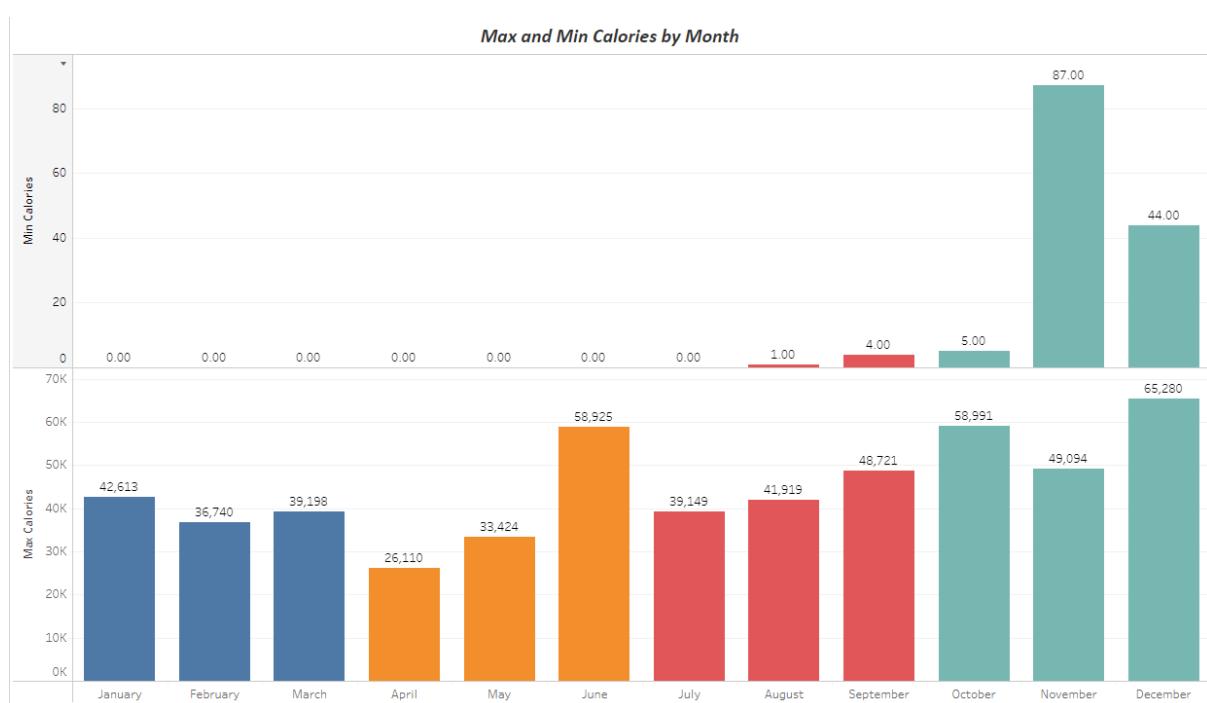
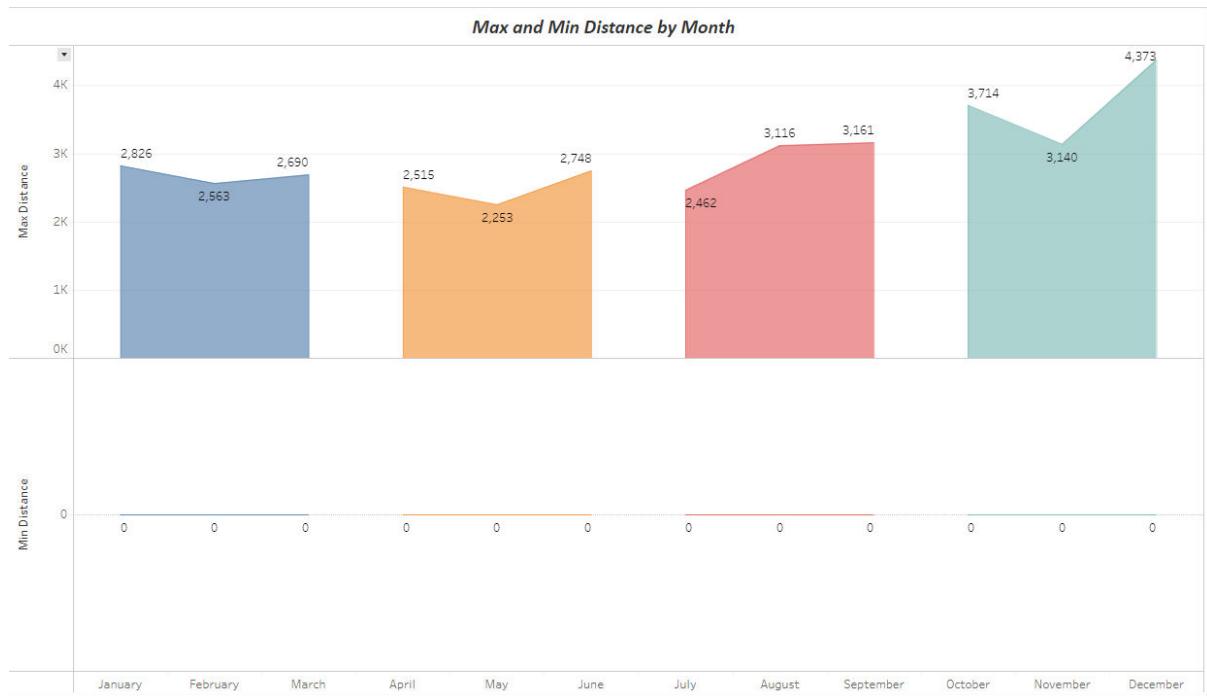


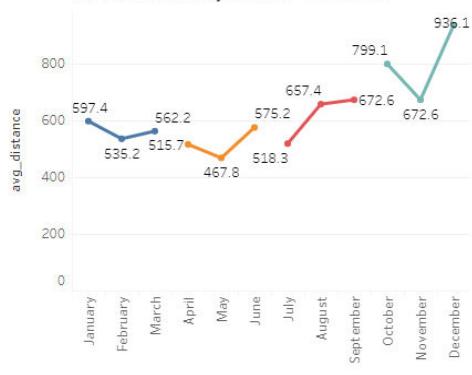
Tableau Dashboard - Monthly Calories and Distance Report

All Users (Average, MAX and MIN)

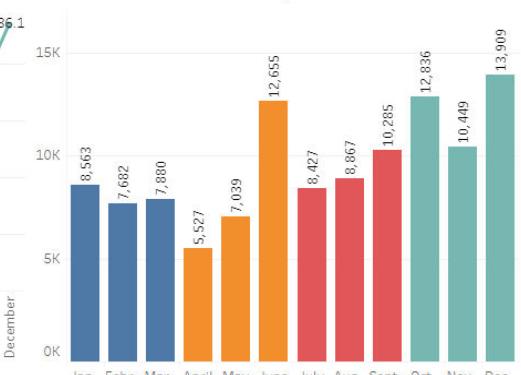
Monthly Calories and Distance Report - All Users (Average, MAX and MIN)

Month of date_AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0

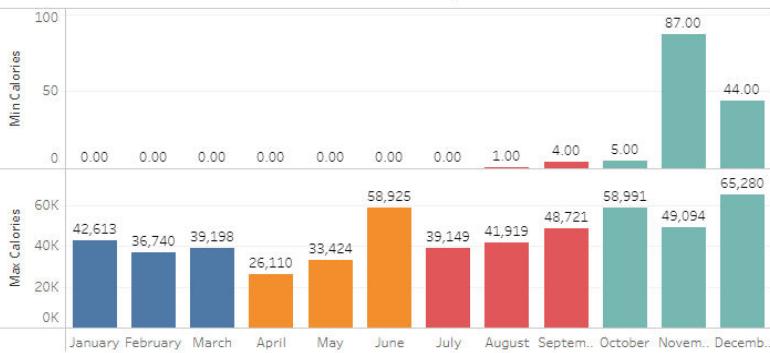
AVG Distance by Month - All Users



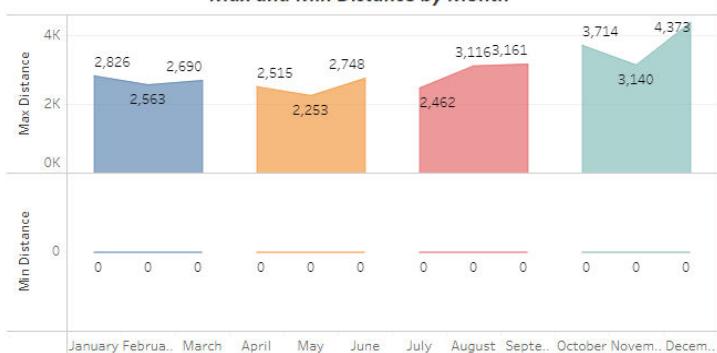
AVG Calories by Month



Max and Min Calories by Month



Max and Min Distance by Month



Summary Cycling Tracking 2021

Monthly Totals for each user:

The below query would calculate the Monthly total distance in KM, total calories and the total hours, for each users in 2021,

Calculation For User U1000000

```
SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18) AS total_calories,
       Round(SUM(distance)/1000) AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
  FROM `sit-23t1-fit-data-pipe-ee8896e.firebaseio_data.master_data` 
 WHERE userID = "U1000000"
   and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
   and date_AEST
 GROUP BY month
```

month	total_calories	total_distance	total_hour
3	4050.0	136.0	13.0
4	4619.0	140.0	15.0
5	2429.0	92.0	14.0
6	9950.0	313.0	23.0
7	13220.0	362.0	23.0
8	5389.0	157.0	18.0
9	3920.0	124.0	15.0
10	7730.0	241.0	16.0
11	4264.0	133.0	14.0
12	13828.0	402.0	26.0

Total Calories - By Day

Day of Dates	Dates										
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..	
1		755	179	55	1,195	122	284				214
2			33	461	293	540	268		651		
3		269		84	417			1,098			
4		114		159			276			69	
5				294			288		67		
6		292		219	313			113			
7			795		29		308		270		
8					29	633	93	2,172			
9					530	161			288		
10		818			461		1,095		434		
11				130	2,488					631	
12	28	146			234		172	99			
13			1	1,962		553	114	186			140
14	910			170		154	200				
15	10			327	5,461	182	27				
16	351	118	297			190				678	
17		1,407		788							1,976
18	107					184	73				
19	490		28	984		165		359			
20	9		48	2,308					358		
21			351		950	554			27	593	
22		2	19	299		773	60	320	159	581	
23					215		300		284		
24		1,335					179	1,126	888	410	
25								179		563	
26	833	16			570	125		72			820
27		27	320	830	35	342	184				3,106
28		26				571		481	131		1,769
29		46	202	355							1,694
30		14	65	524		67			144		1,146
31		481		157		74		1,525			

Calculation For User U1000007

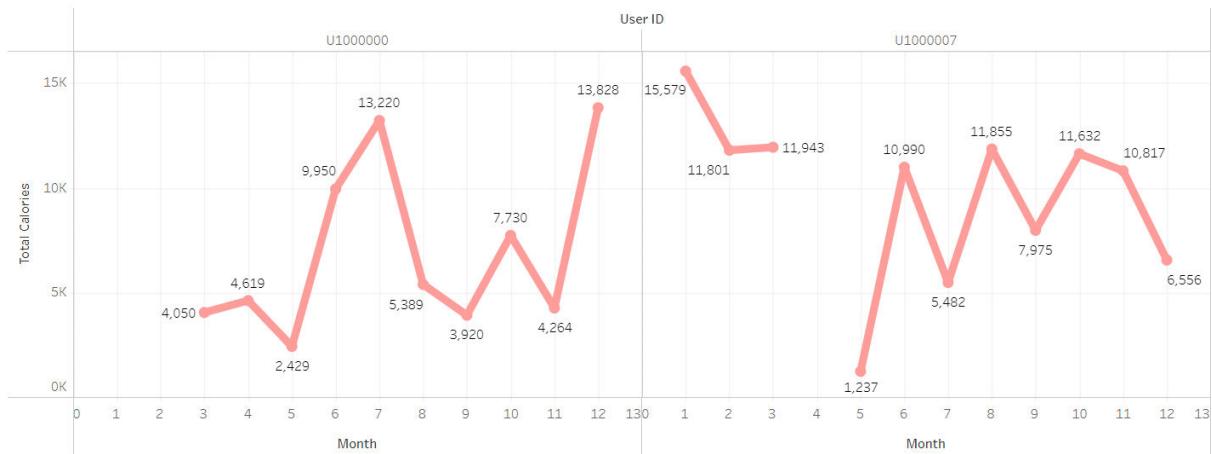
```

SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18) AS total_calories,
       Round(SUM(distance)/1000) AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE userID = "U1000007"
      and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
      and date_AEST
GROUP BY month
ORDER BY month;

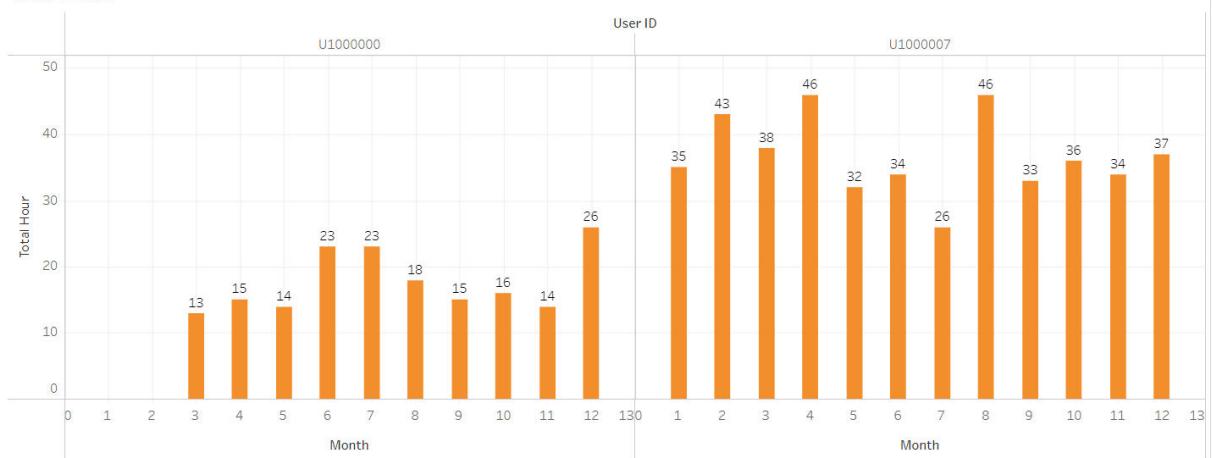
```

month	total_calories	total_distance	total_hour
1	15579.0	593.0	35.0
2	11801.0	578.0	43.0
3	11943.0	601.0	38.0
4	null	737.0	46.0
5	1237.0	467.0	32.0
6	10990.0	476.0	34.0
7	5482.0	323.0	26.0
8	11855.0	651.0	46.0
9	7975.0	437.0	33.0
10	11632.0	479.0	36.0
11	10817.0	539.0	34.0
12	6556.0	586.0	37.0

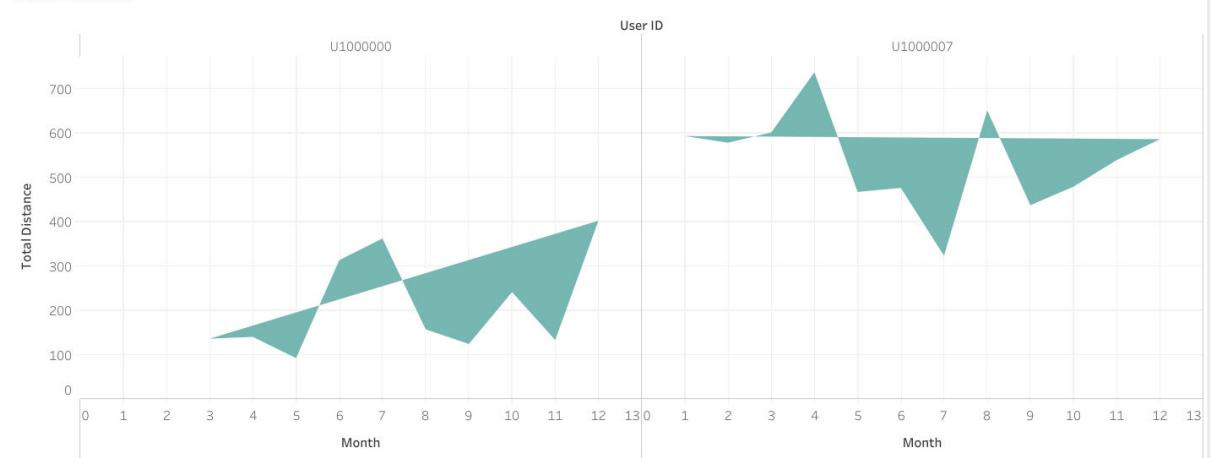
Total Calories



Total Hours



Total Distance



Daily Total Report for each user:

The below query would calculate the total distance in KM and total calories for each day of the year 2021:

For user **U1000000**

```
SELECT userID,
       date_AEST AS dates,
```

```

    ROUND(SUM(calories/4.18)) AS total_calories,
    Round(SUM(distance/1000))  AS total_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31)
    AND userID = 'U1000000'
GROUP BY date_AEST, userID
ORDER BY date_AEST

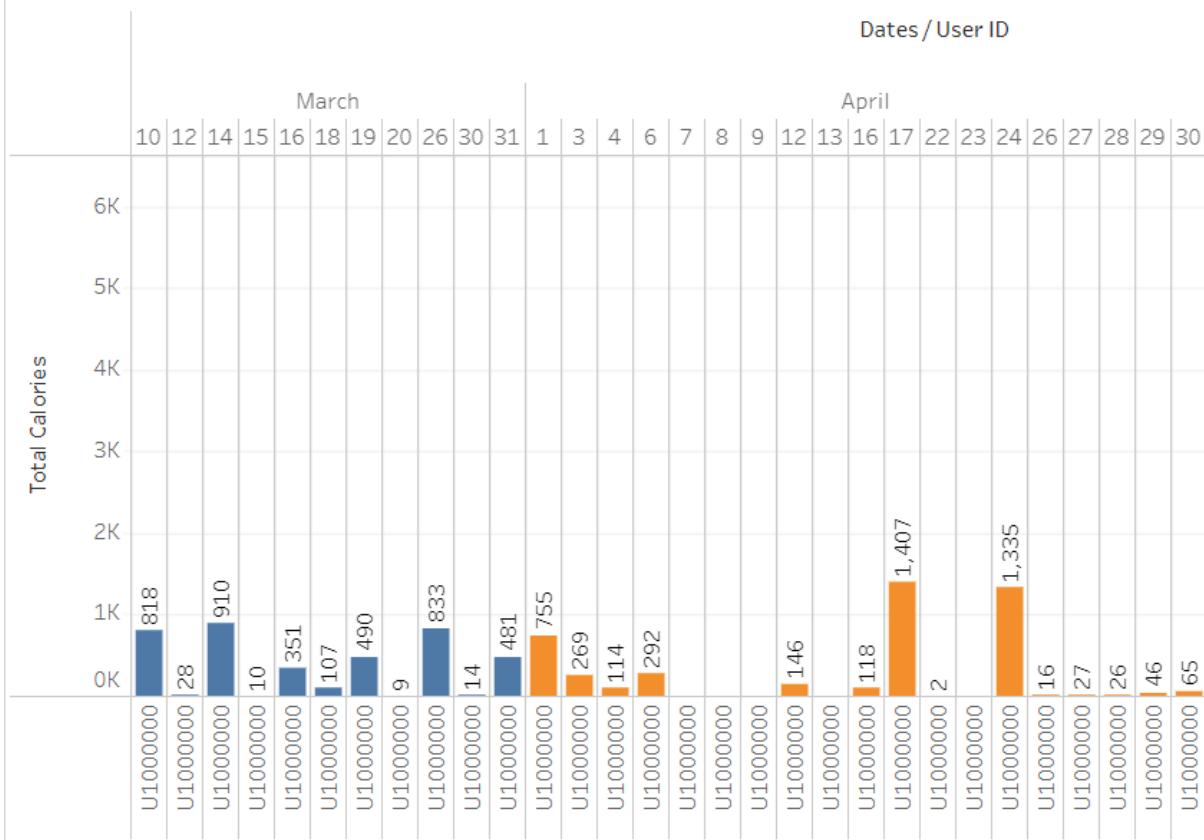
```

Row	userID	dates	total_calories	total_distance
1	U1000000	2021-03-10	818.0	26.0
2	U1000000	2021-03-12	28.0	1.0
3	U1000000	2021-03-14	910.0	31.0
4	U1000000	2021-03-15	10.0	0.0
5	U1000000	2021-03-16	351.0	10.0
6	U1000000	2021-03-18	107.0	3.0
7	U1000000	2021-03-19	490.0	19.0
8	U1000000	2021-03-20	9.0	0.0
9	U1000000	2021-03-26	833.0	26.0
10	U1000000	2021-03-30	14.0	0.0
11	U1000000	2021-03-31	481.0	17.0
12	U1000000	2021-04-01	755.0	25.0
13	U1000000	2021-04-03	269.0	7.0
14	U1000000	2021-04-04	114.0	3.0
15	U1000000	2021-04-06	292.0	9.0

Total Calories - By Day

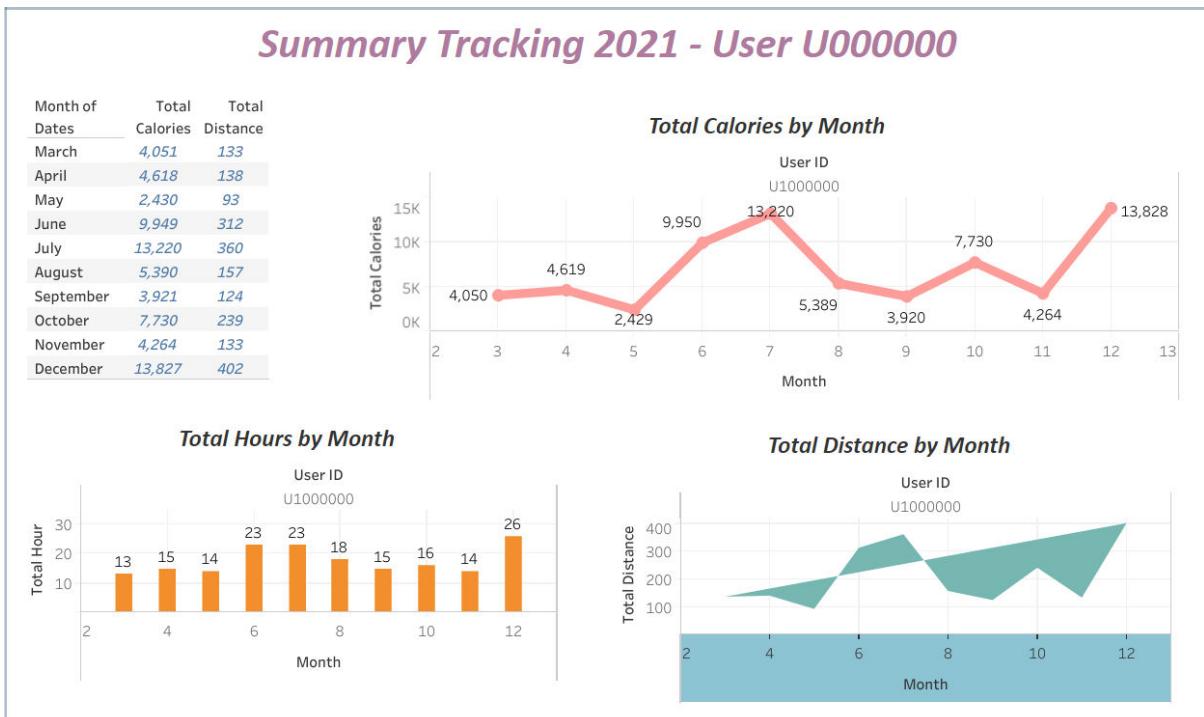
Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268				651	
3		269		84	417				1,098			
4		114		159				276			69	
5				294			288				67	
6		292		219	313				113			
7			795		29		308			270		
8					29	633	93	2,172				
9					530	161				288		
10	818				461		1,095			434		
11				130	2,488						631	
12	28	146			234		172	99				
13				1,962		553	114	186			140	
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118		297		190					678	
17		1,407		788							1,976	
18	107					184	73					
19	490		28	984		165		359				
20	9		48	2,308						358		
21			351		950	554				27	593	
22		2	19	299		773	60	320	159		581	
23					215		300			284		
24		1,335					179	1,126	888		410	
25								179	179	563		
26	833	16			570	125		72			820	
27		27		320	35	342	184				3,106	
28		26		830		571		481	131		1,769	
29		46		202	355						1,694	
30		14			524		67			144		1,146
31	481		65	157		74		1,525				

Total Calories By Day



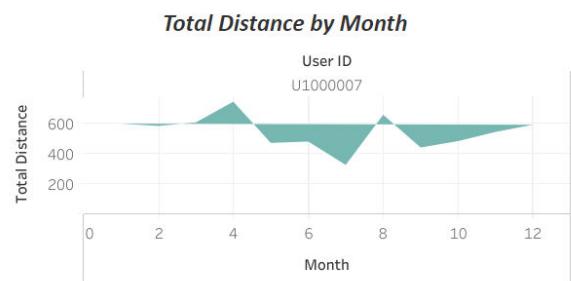
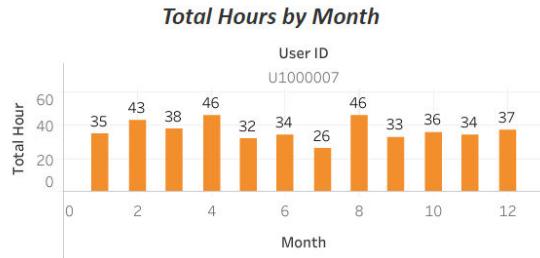
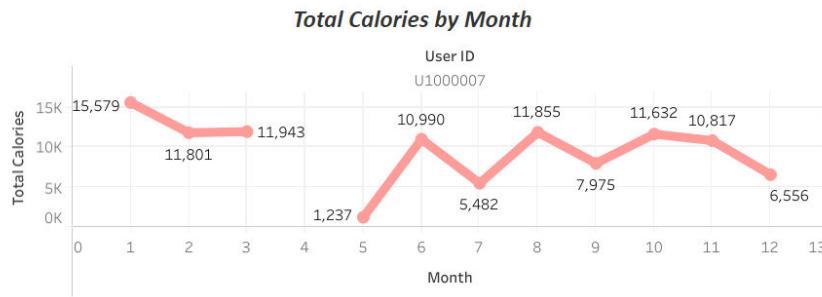
Created the following Summary Tracking Dashboards using Tableau:

Monthly Total – for User1 and User7



Tracking Summary Report 2021 - User U000007

Month of D..	Total C..	Total Di..
January	15,580	590
February	11,802	577
March	11,942	602
April	739	
May	1,237	465
June	10,989	476
July	5,482	324
August	11,854	652
September	7,977	439
October	11,631	481
November	10,818	541
December	6,556	500



The below query would calculate the Monthly Average distance (KM) and calories for each user – in year 2021:

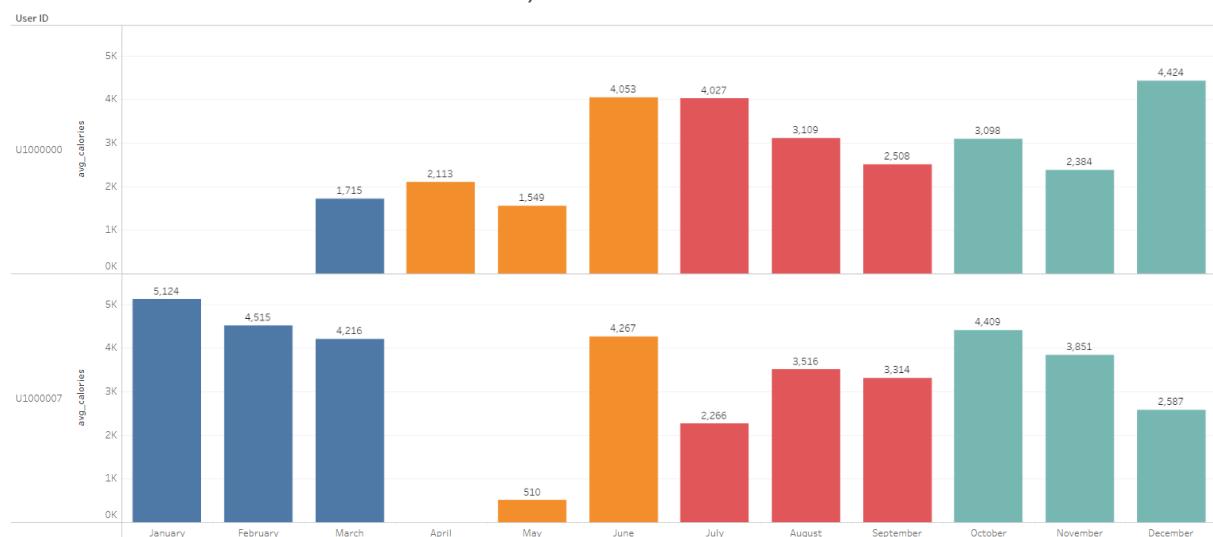
```
select userID, EXTRACT(MONTH from date_AEST) AS month, round(AVG(calories)) as avg_calories, Round(AVG(distance))AS avg_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`  

WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31) AND userID = 'U1000000'  

GROUP BY month, userID  

ORDER BY month;
```

AVG Calories by Month - User U1000007 and U1000000



AVG Distance by Month - User U1000007 and U1000000

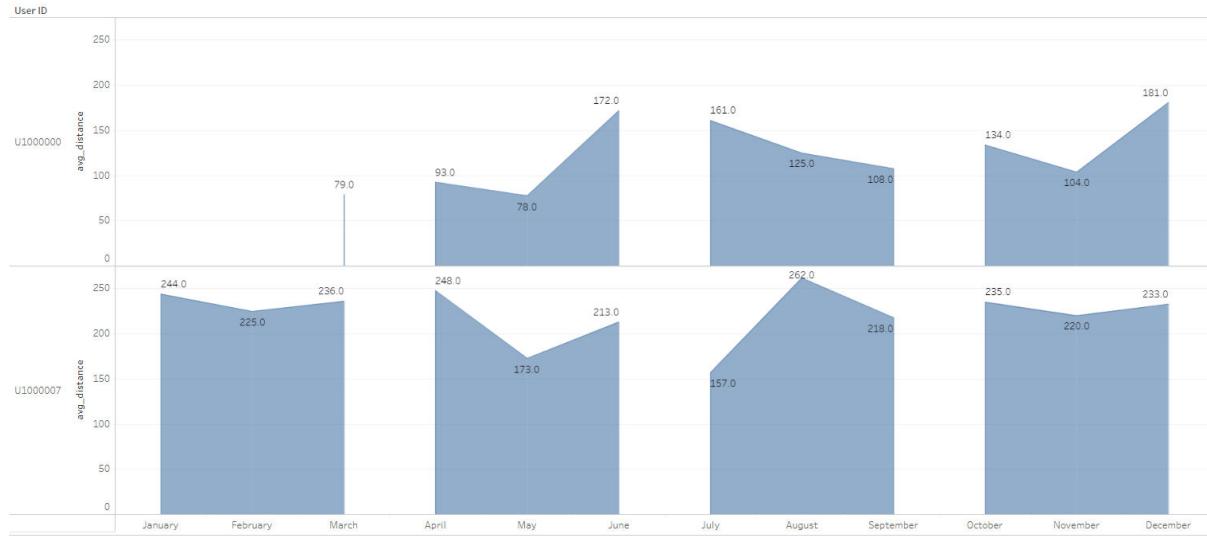


Tableau Dashboard – Monthly report

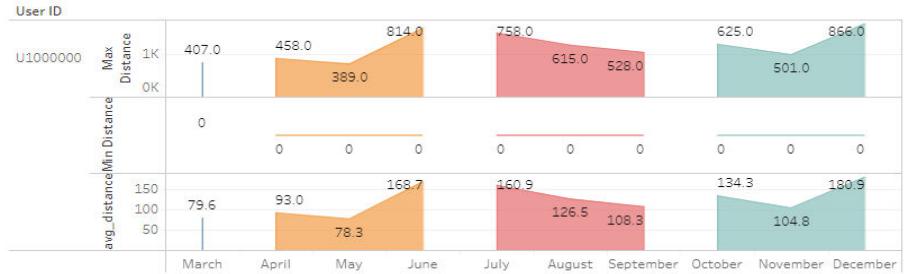
(Avg, Max, Min) – U000000

Max, Min, and Avg Monthly Report 2021 - U000000

Monthly Calories and Distance Report - U1000000 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
March	1,715	80	8,962	407	0	0
April	2,113	93	10,235	458	0	0
May	1,549	78	7,527	389	0	0
June	4,053	169	19,276	814	0	0
July	4,027	161	18,668	758	0	0
August	3,109	127	15,411	615	1	0
September	2,508	108	12,522	528	0	0
October	3,098	134	14,147	625	0	0
November	2,384	105	11,401	501	0	0
December	4,424	181	20,751	866	0	0

Max, Min and Avg Distance Report by Month (U000000)



Monthly Calorify Report (Max, Min and Avg) - U000007

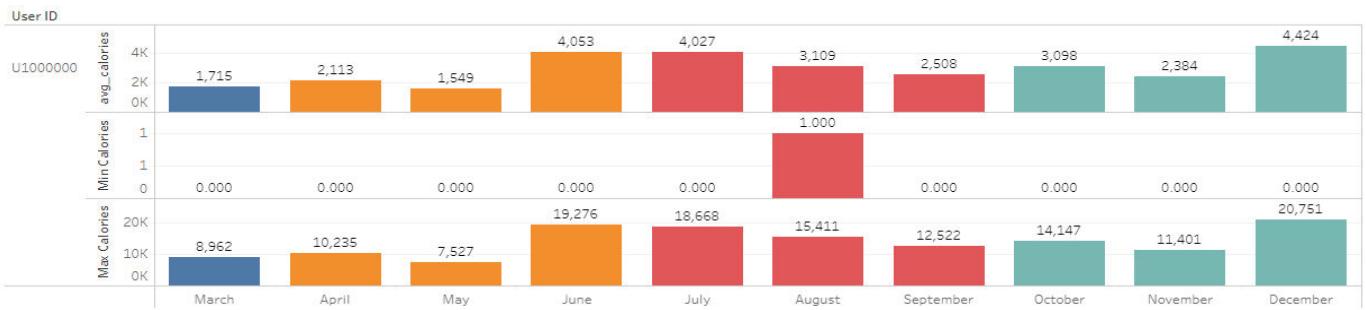


Tableau Dashboard – Monthly report

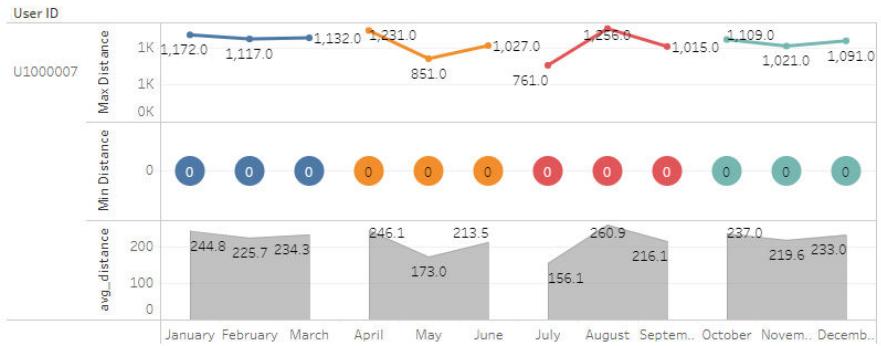
(Avg, Max, Min) - U000007

Max, Min, and Avg Monthly Report 2021 - U000007

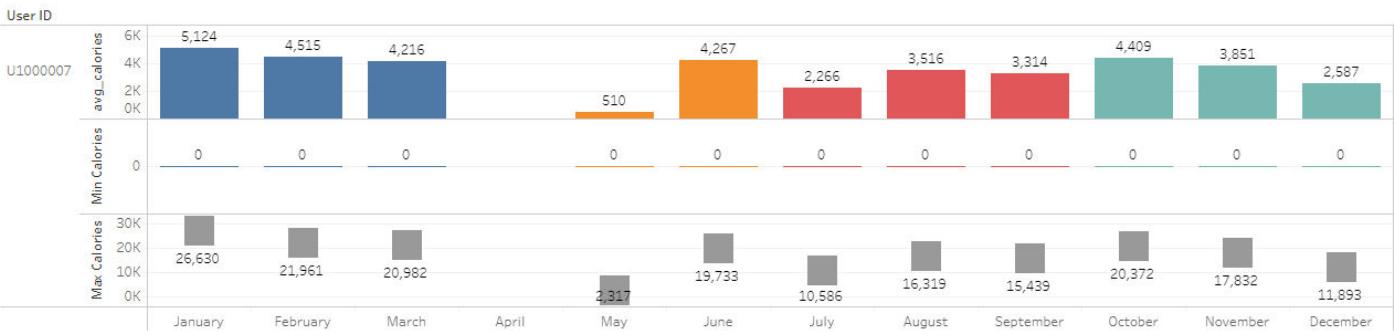
Monthly Calories and Distance Report - U1000007 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	5,124	245	26,630	1,172	0	0
February	4,515	226	21,961	1,117	0	0
March	4,216	234	20,982	1,132	0	0
April		246		1,231		0
May	510	173	2,317	851	0	0
June	4,267	213	19,733	1,027	0	0
July	2,266	156	10,586	761	0	0
August	3,516	261	16,319	1,256	0	0
September	3,314	216	15,439	1,015	0	0
October	4,409	237	20,372	1,109	0	0
November	3,851	220	17,832	1,021	0	0
December	2,587	233	11,893	1,091	0	0

Max, Min and Avg Distance Report by Month (U000007)

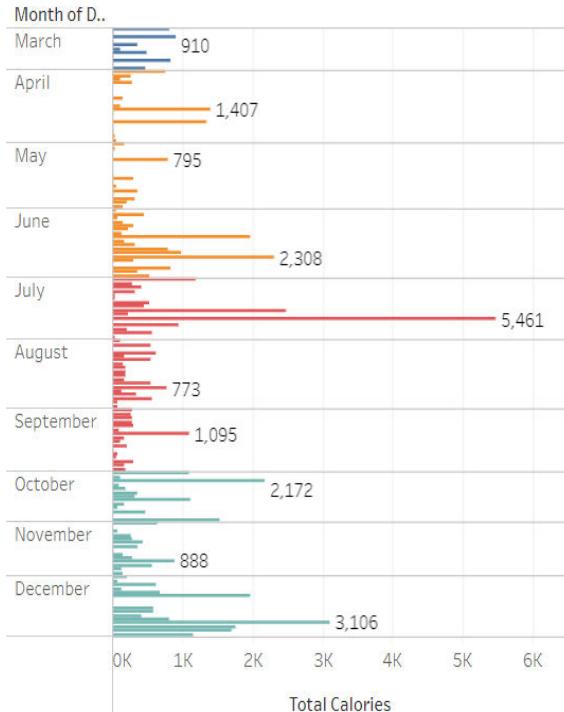


Max, Min and Avg Calories Report by Month (U000007)

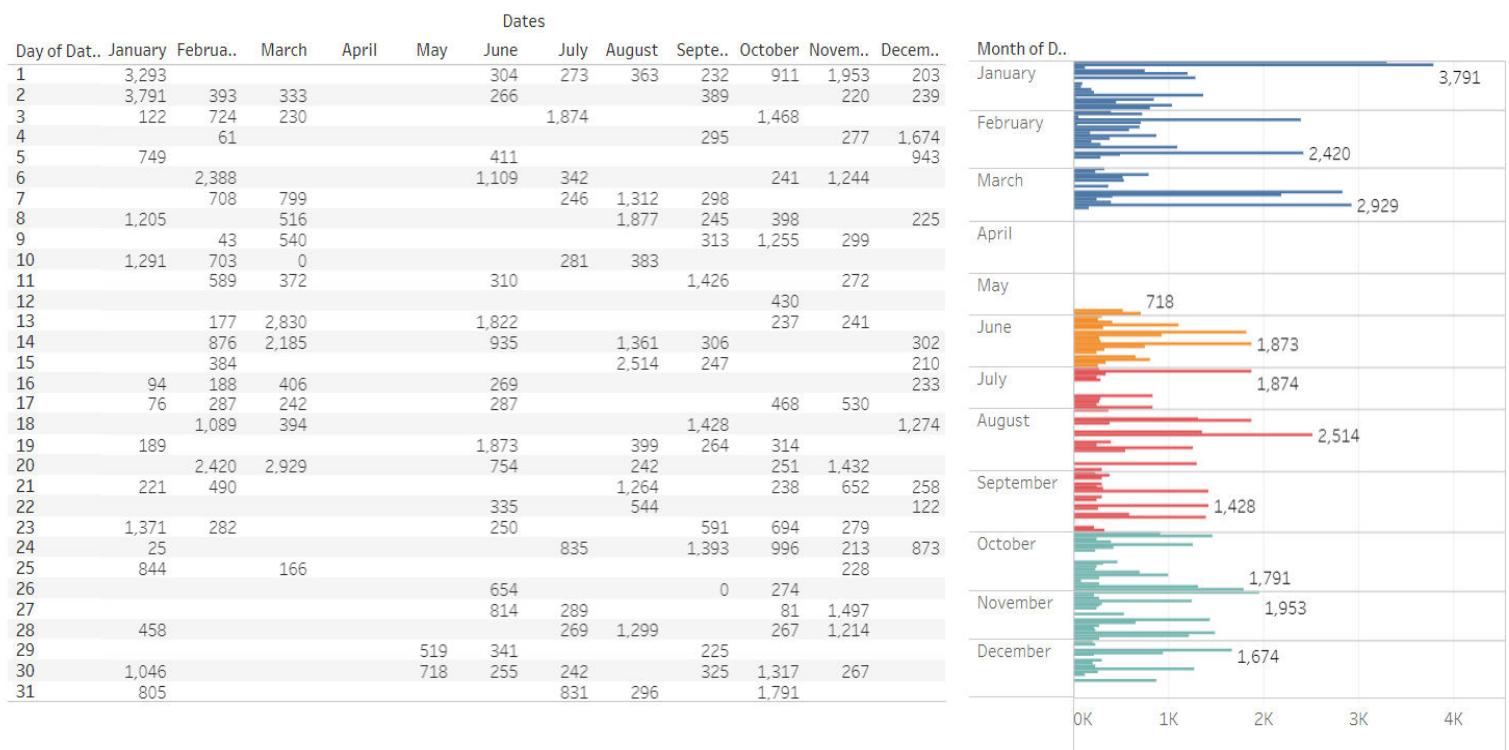


Daily Calorie Tracking 2021 - User U000000

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284			214		
2			33	461	293	540	268			651		
3		269		84	417				1,098			
4		114		159				276		69		
5			294				288			67		
6		292		219	313			113				
7				795	29		308		270			
8					29	633	93	2,172				
9					530	161			288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186		140		
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190				678		
17		1,407		788					1,976			
18	107				184	73						
19	490		28	984		165		359				
20	9		48	2,308				358				
21			351		950	554		27	593			
22		2	19	299		773	60	320	159	581		
23					215		300		284			
24		1,335				179	1,126	888	410			
25							179	563				
26	833	16			570	125		72	820			
27		27	320	830	35	342	184		3,106			
28		26				571		481	131	1,769		
29		46	202	355						1,694		
30	14	65		524		67		144	1,146			
31	481		157			74		1,525				



Daily Calorie Tracking 2021 - User U000007



[Link to GitHub](#)

Participated in IOT Projects

In IOT team, my technical participation was applied mostly in the shape of a project manager, as below:

- Planned features and goals based on the project's status, time and our team capabilities,
- Sprint planning, task assigning and setting the deadlines
- Tracking closely the work flow to make sure that all deadlines are met,
- Suggested possible solutions when team faced any problems,
- Monitored the problem solving process closely and stepped in when needed
- Provided 1:1 support to make sure everyone are in the right track
- modified the projects
- Provided resources, solutions and instructions

Here is some example of my technical participation in IOT:

1- Remote access to the PI

- Provided resources,
- Tracked the task and provided feedback
- Asked William to create an instruction document and include all the links and steps needs to be taken to get remote access to the PI

2- Workout Projects

At the start of this Trimester, it was only one workout (Ramp) implemented which was controlled by the APP, I planned that we develop another three workouts as below:

- Strength
- Endurance
- Threshold

The data is received via Bluetooth using the RPI and submitted via "MQTT" to a broker which distributed that data to relevant process including "The Flutter Mobile App" which can start and stop the workouts.

Problem: The app was down and we were not able to run and test the workouts,

As this workout, was implemented and tested last year, in T2, when the Mobile team leader did a lot of mobile development on his Mac and it worked for him with his iPhone,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also the previous co-leader mentioned that the changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Solution that I came up with:

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-Suggested to implement the workouts just from an IOT perspective, to be start and end using IOT products (not the APP) to be able to showcase how they control the bike.

Which all implemented and tested using our bikes' data.

Debugging (Kickr, Fan and "All-Script")

My participation on debugging:

- Acknowledged the bug
- Recorded them as an task and project
- Assigned each task to a member
- Suggested some possible solutions
- Set deadlines and tracked the projects to make sure that the due dates are met
- Tested/checked out the CMS to be sure the values>0 is also transported

- **Developing a 'start_all' script project**

To get the bike start working, we were required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needed to be executed individually,

So I advised to developing a single .sh script which ables us to start all the .sh, which now implemented

My participation on this project:

- Clarified the project to the members

- *Following up with the progress and providing feedback and solution when needed. EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the “all-start” scrip project and work on the fix separately.*

- *Updating the Trello board*

15 Lead Contributions Achievement

Show that you have achieved the standard needed of a lead contributor across the unit

Date	Author	Comment
2023/05/21 23:46	Elaheh Karimi Zarandi	Ready to Mark
2023/05/25 10:31	Kevin Lee	Complete

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Lead Contributions Achievement

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/05/21 23:46

Tutor:

Kevin LEE

May 21, 2023



Name: Ella Zarandi
Company Name: Redback Operations
Role title or area: Company Leader

Student ID: 222064699
Target grade: HD

Leadership Progress Report

This trimester, I worked with the Redback Operations, as the company leader. I got this opportunity as a way to demonstrate and boost my leadership skills, by performing an effective leadership to the company to Improve productivity of the team members and creates a good work environment, where everyone felt supported. To create and maintain a positive work environment, I ran the following strategies:

- Conducted an effective recruiting and On-boarding process, with the result of 65 students were integrated into the company.
- Helped team members to pick the right teams/projects to join, by providing information about each teams, projects and the tech stacks,
- Organised the teams and established the leadership,
- Set clear expectations for team members
- Collecting information from the students to be able to position them within the company based on their skills and capabilities
- Creating Onboarding reports
- Planning out projects and objectives for the company
- Encouraged participation in planning and task assigning,
- Establishing the company structure and Projects Overview
- Creating projects documentation (Project overview, goals and objectives)
- Assigned tasks and roles to students
- Scope the projects and sprint planning to set timeframes and goals
- Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines
- Organizing and running the meetings, events and agendas and recording the decisions
- Sorted out access for members to their required tools
- Training and provided resources
- Set the “Redback gmail address” as admin for Github, to make it easier for the next leader to use that to set permissions.
- Encouraged team collaboration and communication
- Ran regular team meeting
- Providing 1:1 support to the leaders and team members, to be sure everyone is on track
- Created worklog for IOT team and provided other teams with a desined worklog to modify and use for their teams.
- Merged two teams to ensure consistency in work.

- *Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team*
- *Monitoring and evaluating the project progress across the company, address potential issues and made sure the deadlines are met*
- *Measure and report on project's performance using Tableau and Excel*
- *Act as the point of contact for all participants*
- *Order resources, like equipment and softwares*
- *Providing support to and meeting with IOT student from "shadow program"*
- *Preparing presentation's slides and running the presentations*
- *Promoted communication processes across the company*

1- Organized and run the meetings and events, created agendas and recorded the decisions.

The meeting ran in Redback Operations were as below:

- *Weekly leadership meetings,*
- *Weekly team meetings,*
- *Weekly meetings with Directors,*
- *1:1 meetings to able people to bring their issues up to resolve*

2- Providing 1:1 support to the leaders and team members, to be sure everyone is on track

3- Keep track of all teams progress through our meeting and chat channels to establish team's work flow report, to pass it to the directors in our weekly meetings

4- Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.

5- Scheduled meeting's time based on everyone's availability and encouraged attendance to the meetings

6- Kept track of all projects' progress and teams' workflow through our weekly leadership meeting to establish report, to pass it to the directors in our weekly meetings

- *Encouraged everyone to bring up the problems they are facing to(through 1:1 meetings or direct texts) to seek for the solutions and support*
- *Provide access to required data to all teams*
- *Provided guidance to the team members with their Capstone tasks*
- *To support the leaders with their project planning process, I conducted a deep research about the company projects' status and came up with wide range of new ideas*

and projects for different teams across the entire company to develop and implement new features to the company's products.

- *Provided support, guides, suggestions and feedback to leaders and students at the time they were working on the company Reports, such as:*
 - *Company structure and objectives*
 - *Company progress report*
 - *Company handover document*

- *Encouraged up-skilling and learn about company through following resources*
 - *Studied through the handover document,*
 - *Conducted meetings with leaders, unit chairs, Capstone support staff and directors*
 - *Learned through the GitHub*
 - *Went through resources accessible in the Team Chat channels*
 - *Referred to the last Trimester Trello boards*

- *Locate the stored projects, resources and collected data and shared with other members based on their project's requirements*

- *Created step by step instruction about updating the local cloned codes from GitHub and shared it into the Ms Team*
[How to update your local cloned file](#)

- *Created an introduction about our data pipeline and data dictionary, and shared into Ms Team*
[Link to access to the files though Ms Team](#)

- *Introduction to CMS created and placed in Ms Team*
[Link to the File](#)

- *An step by step instruction about "How to access the GCP project" created and placed in the Ms Team and also shared in chat channels*
[Link to the file](#)

16 Learning Summary Report

Put forward a draft of your learning summary that will be an overview of your portfolio

Date	Author	Comment
2023/05/27 22:29	Elaheh Karimi Zarandi	Ready to Mark
2023/05/28 15:56	Fatemeh Ansarizadeh	Hi Elaheh, thank you for submitting your Learning Summary Report. Could you please include the screenshot of your work log in your report to represent the number of hours you have allocated to the project during this trimester? BTW, there is not need to provide piece of screenshot in this submission since as the name reflects it is a summary and elaborated explanation is enough.
2023/05/28 15:56	Fatemeh Ansarizadeh	Fix and Resubmit
2023/05/28 20:09	Elaheh Karimi Zarandi	Hi Fatima, I checked my submission again, but there is not any screenshots there, if u mean the screen shots of the codes and plots, they are actually ment to be there I believe, as they are part of my report
2023/05/28 20:16	Elaheh Karimi Zarandi	and about the work log, as in the lecture session we are told by the unit chairs that if our work indicates the working hours, then we dont need to submit the work log, that's why I didn't complete the log, as everyday I had bout 4 or 5 meetings with different teams and members, and I had to spend many hours for testing, tracking, up skilling, research and ... so it would took lots of time of me to record all of them in the log, so that's why after we were told that work log is the last thing that teaching team would refer to, so I didn't record my time anymore
2023/05/29 23:57	Elaheh Karimi Zarandi	Ready to Mark
2023/05/29 23:57	Fatemeh Ansarizadeh	Time Exceeded

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Learning Summary Report

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/05/29 23:57

Tutor:

Fatemeh ANSARIZADEH

May 30, 2023



2023

Learning Summary Report



SIT782 – Team Project (B)

Self-Assessment Details

The following checklists provide an overview of my self-assessment for this unit.

	Pass (D)	Credit (C)	Distinction (B)	High Distinction (A)
Self-Assessment				✓

Declaration

I declare that this portfolio is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: **Ella Zarandi**



Portfolio Overview

I believe that I have demonstrated an outstanding leadership participation by creating positive and professional working environment and collaboration and inspiring others to do their best,

Also I have applied a wide range of technical participation, through the key projects across the company's different teams.

Through this portfolio I have included my work which demonstrates that I have achieved all Unit Learning Outcomes for SIT782 Team Project B, to a HD level.

Reflection

The most important things I learnt:

Leadership Achievements

Working as the Redback company leader, provided me with the opportunity to demonstrate and boost my leadership skills,

I believe as the company leader I demonstrated an effective leadership skills to the company to create a positive work environment, where everyone felt supported and motivated.

At all the stage I made sure that I provided clear direction and guidance to members to increase the efficiency and productivity across the company.

I performed the necessary skills and knowledge to make decisions and solve problems effectively.

Here is a List of my leadership achievements

- *Conducted an effective recruiting and On-boarding process, with the result of 65 students were integrated into the company.*
 - *Prepared and Presented the recruitment presentation to provide juniors information about each teams, projects and the tech stacks, to be able to pick the right teams/projects to join,*
 - *collecting information from the students to be able to position them within the company based on their skills and capabilities*
 - *Run a company wide meeting and organised the teams and established the leadership*
 - *Sat clear expectations for team members*
 - *Set up access for members to their required tools and platforms*
 - *Made sure all students were completely settled by end of week three and have their roles and tasks assigned*
 - *Creating Onboarding reports*
- *Planning out projects and objectives for the company*
- *Encouraged participation in planning and task assigning,*
- *Establishing the company structure and Projects Overview*
- *Creating projects documentation (Project overview, goals and objectives)*
- *Assigned tasks and roles to students*
- *Scope the projects and sprint planning to set timeframes and goals*
- *Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines*

- *Organizing and running the meetings, events and agendas and recording the decisions*
- *Sorted out access for members to their required tools*
- *Training and provided resources*
- *Sat the “Redback gmail address” as admin for Github, to make it easier for the next leader to use that to set permissions.*
- *Encouraged team collaboration and communication*
- *Ran regular team meeting*
- *Providing 1:1 support to the leaders and team members, to be sure everyone is on track*
- *Created worklog for IOT team and provided other teams with a desined worklog to modify and use for their teams.*
- *Merged two teams to ensure consistency in work.*
- *Made changes in two team's hierarchical structure, in order to address the issues they faced to through their participation and speed up the process of the project's progress in their team*
- *Monitoring and evaluating the project progress across the company, address potential issues and made sure the deadlines are met*
- *Measure and report on project's performance using Tableau and Excel*
- *Act as the point of contact for all participants*
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- *Preparing presentation's slides and running the presentations*
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1- *Organized and run the meetings and events, created agendas and recorded the decisions.*

The meeting ran in Redback Operations were as below:

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- *Weekly meetings with Directors,*
- *1:1 meetings to able people to bring their issues up to resolve*

2- *Providing 1:1 support to the leaders and team members, to be sure everyone is on track*

3- *Keep track of all teams progress through our meeting and chat channels to stablish team's work flew report, to pass it to the directors in our weekly meetings*

4- *Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.*

5- Scheduled meeting's time based on everyone's availability and encouraged attendance to the meetings

6- Kept track of all projects' progress and teams' workflow through our weekly leadership meeting to establish report, to pass it to the directors in our weekly meetings

- Encouraged everyone to bring up the problems they are facing to (through 1:1 meetings or direct texts) to seek for the solutions and support
- Provide access to required data to all teams
- Provided guidance to the team members with their Capstone tasks
- To support the leaders with their project planning process, I conducted a deep research about the company projects' status and came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features to the company's products.
- Provided support, guides, suggestions and feedback to leaders and students at the time they were working on the company Reports, such as:
 - Company structure and objectives
 - Company progress report
 - Company handover document
- Encouraged up-skilling and learn about company through following resources
 - Studied through the handover document,
 - Conducted meetings with leaders, unit chairs, Capstone support staff and directors
 - Learned through the GitHub
 - Went through resources accessible in the Team Chat channels
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- Locate the stored projects, resources and collected data and shared with other members based on their project's requirements
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[How to update your local cloned file](#)
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[Link to access to the files though Ms Team](#)
- Introduction to CMS created and placed in Ms Team
[Link to the File](#)
- An step by step instruction about "How to access the GCP project" created and placed in the Ms Team and also shared in chat channels
[Link to the file](#)

- ***Self-management***

As self-management is an important leadership quality, so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as below:

- *Evaluating my technical and leadership knowledge and skills and put a lot of effort into researches and up-skilling*
- *Performing a remarkable planning and organizational skills*
 - *Time management*
 - *Working independently and seeked for support and advice when required*
 - *Outline project goals, based on the status of the projects and the member's capabilities*
- *Stress management*
- *Creating to-do list and strict deadlines for team members and myself*
- *Evaluating self-progress toward the goals*
- *Used the provided feedback to improve my progress*
- *Problem solving and Decision making*
- *Monitoring and evaluating the company progress*

Company stability

Below is a list that indicates how I applied and improved Company stability, across the company:

- *All projects were tested and created showcase video to make sure that they are in the working order.*
- *Included the status of the projects in the handover doc,*
- *New ideas and goals were added and all issues are documented in the "open issue" section*
- *prevent data loss*
 - *Backed up files in different locations,*
 - *including the codes into the handover docs*
 - *providing links to the GitHub Repos*
 - *Cleaning up the Team files and folders and added important files there*
 - *Added extra data store for VR Repo, so now we do have all the teams projects and data stored into the GitHub*
- *Sorted out remote access to the pi*
The only problem is that whenever the PI unplugged, the IP would change which make it impossible to use the VPN to get access to the pi, when we don't have the new IP address, to solve that I suggested to assign a static IP to the PI,
- *Introduced a list of capable students that possibly could be great candidates to carry out the teams' leadership roles for the next Trimester.*

Technical Achievements

To showcase my knowledge and technical skills, while worked with Redback Operation company though Trimester 1 2023, I have participated in the following projects:

Fitness Tracker Project:

The aim of this project is to implement a foundational tool to collect data from users and their workouts to be able to provide them with a regular fitness routines and workouts to make their exercise performance more effective.

In this project the data set which has been used, called “Master_Data” which is accessible through BigQuery.

This project has different components as bellow:

- ❖ Data Dictionary
- ❖ Data Pipeline
- ❖ BMI Calculator
- ❖ Feedback Analysis
- ❖ The Corporate Reporting

1- Data Dictionary

Established a data dictionary and placed in GitHub to allow others to understand the data variable names and values.

Fitness data master data set

Fields	
Distance	<i>show distance in either miles/feet (statute units) or kilometers/meters (metric units)</i>
Enhanced_altitude/Altitude	<i>To determine the rider’s elevation which means the total number of feet the rider climb in a ride)</i> <i>This information is recorded during the activity and is used to report elevation related information in Garmin Connect.</i>
Ascent	<i>A climb or walk to the summit of a mountain or hill/an</i>

	<i>instance of rising or moving up through the air.</i>
Total Ascent	A total of elevation gain which means the total number of feet the rider climb in a ride
Average Ascent	Provides an average of all ascents recorded during an activity
Maximum Elevation	Provides the highest elevation achieved.
Grade	Data field for Garmin devices that calculates the slope (or grade) of the hill users are walking on
Calories	This is the total of active and resting calories that are calculated during a recorded activity on your device (from the moment that you start the timer for the activity to the moment you stop the timer)
Speed/Distance Algorithm:	This is the most basic method of determining calories. It is represented in calories/Kcal.
Speed/Enhanced Speed:	<i>It is distance by total time sent on an activity. It is calculated in m/sec or m/h.</i> <i>If the values of speed are too large to be fit in speed, then enhanced speed is used.</i>
Heart_rate:	<i>heart rate values can be set as absolute or relative values.</i> <i>Absolute values represent beats per minute (bpm) for heart rate, or watts for power.</i>
Temperature:	<i>The Temperature widget will display the ambient air temperature near the barometric altimeter port. This reading can be affected by body heat.</i> It is represented in Fahrenheit.
Cadence	<i>The cadence fields in a FIT file represent RPMs. For cycling 1 RPM equals one full rotation of the cranks</i> <i>Cadence in cycling is the number of revolutions your pedals make per minute as you ride. revolution per minute(RPM)</i>
Power	<i>Power values can be set as absolute or relative values.</i> <i>Absolute values represent watts for power.</i>
Left_right_balance	<i>It shows as a percentage the power separately put out by the left and right leg.</i>
Session_ID	<i>It is unique id generated for each session performed by user</i>
User_ID	<i>It is the unique ID generated for every user</i>
Weight	<i>It gives the weight of the person in kgs</i>
Gender	<i>It Shows gender of registered person of the device</i>
FTP	<i>Functional Threshold Power (FTP) is a measurement from power meters. It is the highest power level you can maintain</i>

	<i>for one hour without growing fatigued. FTP is beneficial because it provides an outlook on performance ability.</i>
Age	<i>Available on select Garmin watches, Fitness Age is an estimate of how fit you are compared to your actual age. Compatible Garmin watches will measure your Fitness Age differently, depending on which device you have. Fitness age is an estimate of how fit you are compared to your actual age</i>
Product_Name	<i>It describes the product used for recording the activity.</i>

Link to the Wahoo Introduction

<https://cloud-api.wahooligan.com/#introduction>

[Link to GitHub](#)

[Link to Ms Team](#)

2- Data Pipeline

Conducted research about the data pipeline in Redback Company and provided a copy for other members in GitHub and MS Team,

The Data Origin and Data Pipeline in Redback Company:

As I was new to Redback Operations, so I conducted some researches to comprehend the existing data pipeline to get a clear view of the data transport method in place, in which raw data is ingested from various data sources and then ported to data store/data warehouse, for analysis.

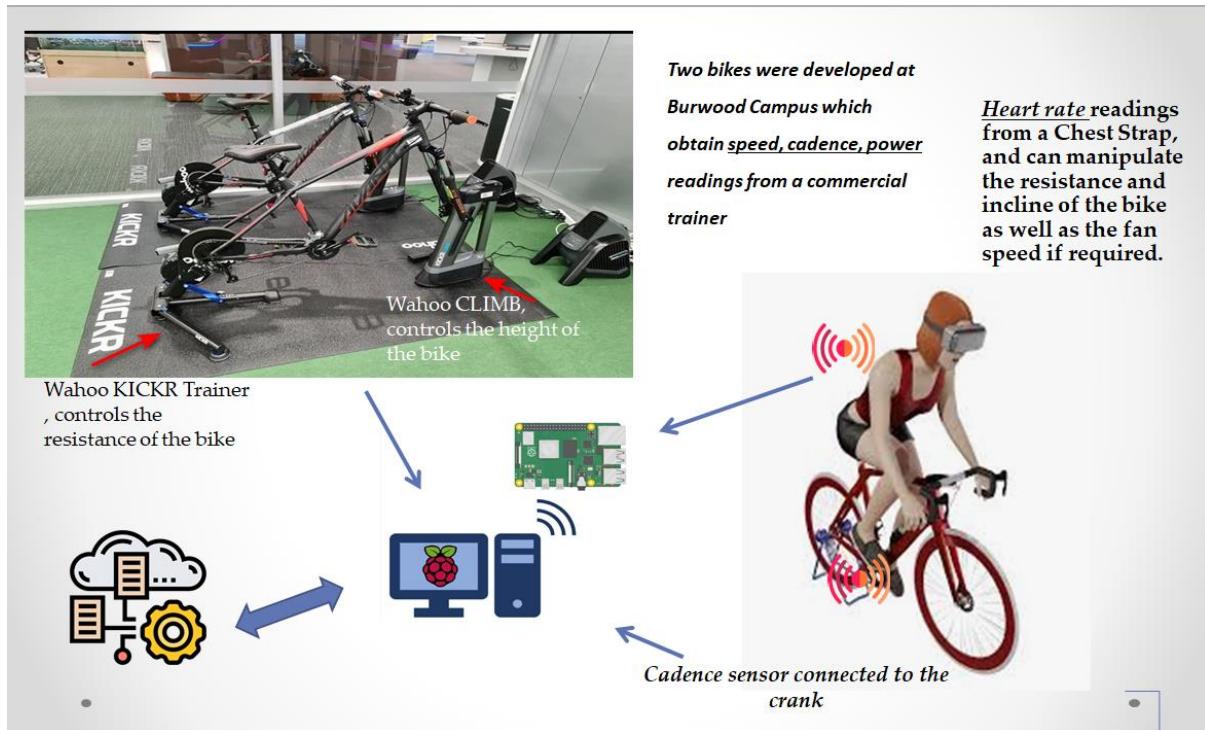
Here is the result of my research:

The Data Origin and Data Pipeline in Redback Company:

At Redback company we utilize “Contact Management System” (CMS). The data is received from bike’s sensors (Whaoo) via Bluetooth using a Raspberry Pi and submitted via MQTT to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python to get data from riders and sending it off to the mobile app to get used.

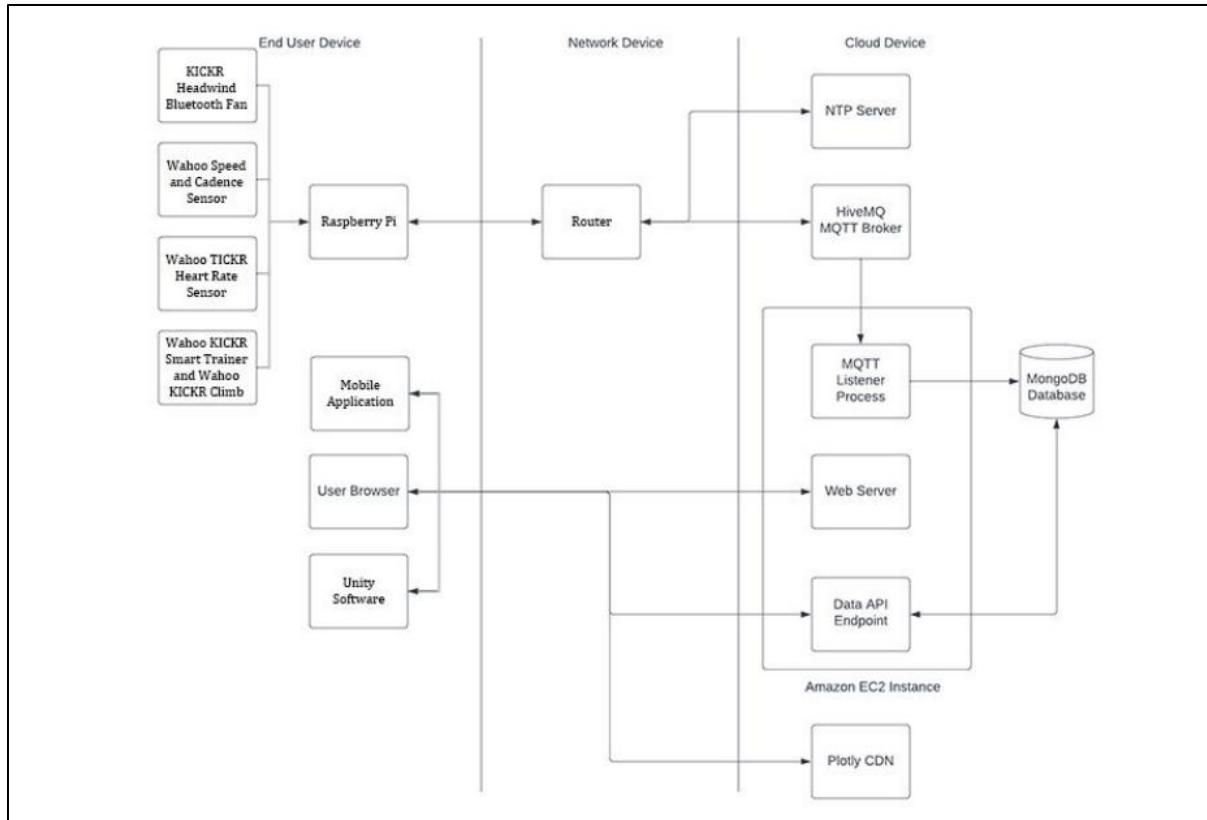
The protocol used for this data transport mechanism used by drivers is MQTT.



The CMS is currently hosted at <http://34.129.10.237> that is under the company owned GCP account.

The dashboard shows an overview of the data collected and displays the recent stored sensors data in real time (if there's any activity using the mobile cycling fitness app), the bikes page can be used to set up additional bikes, the devices page used to provide details for additional sensors, and device data used to search or edit the collected data.

UML Diagram



For more detail see the Sensor Architecture report in GitHub, under Tri 3 2023 folder

[Link to Ms Team](#)

3- BMI Calculator

A BMI Calculator has been implemented using python, as we don't have the height field in our current database to be able to calculate the BMI, so on the model that I've implemented it would ask the user to input their height and weight and then it would calculate the BMI.

Summary of BMI and the benefits and limitations:

BMI(Body Mass Index) is one of the most common ways of grouping people by their weight.

A History of BMI:

BMI was first developed in the mid-1800s by a polymath called Adolf Quetelet. The purpose was to measure people's weight in relation to their height, by dividing their weight in KG by their height in meters squared. Scientists have created BMI categories to group people according to how far their weigh is from the norm for their height.

The categories of BMI:

- *BMI less than 16, classified as "Severely Underweight",*
- *BMI 16 to <18.5, classified as "Underweight" range.*
- *BMI 18.5 to <25, classified as "Healthy weight" range.*
- *BMI 25.0 to <30, classified as "Overweight" range.*
- *BMI 30.0 or higher, falls within the "Obesity" range.*

Benefits:

- *Easy to measure,*
- *No expensive equipment needed,*
- *It is quick and cheap to work out,*

Limitations:

- *BMI is not a way of diagnosing body fat,*
- *Categorizing people based on their BMI could lead to weight stigma,*
- *BMI is not an appropriate measure for children*

The following code will receive "Height" and "Weight" from user to calculate and round the BMI to 2 decimal places and shows the user's BMI category using a function called "BMI". Also this code will check the entered values for "Height" and "Weight" and if it's not valid, it will respond "Incorrect Data"

```
In [77]: h = float(input('Enter height in Meter: '))
if (h >= 1.0 and h <= 2.5):
    height = h
else:
    raise Exception("Incorrect Data, Please enter your height in Meter ")

w = float(input('Enter weight in KG: '))
if (w >= 10 and w <= 1000):
    weight = w
else:
    print("Incorrect Data, Please enter your weight in KG ")

def BMI(height, weight):  #BMI Fuction to calculate BMI
    bmi = round(weight/(height**2), 2)

    if (bmi < 16):
        return 'Severely Underweight', bmi

    elif (bmi >= 16 and bmi <18.5):
        return 'Underweight', bmi

    elif (bmi >= 18.5 and bmi <25):
        return 'Healthy', bmi

    elif (bmi >= 25 and bmi <30):
        return 'Overweight', bmi

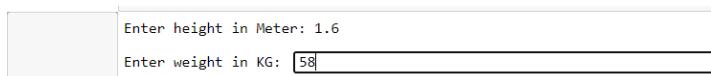
    elif (bmi >= 30):
        return 'Obese', bmi

calculation, bmi = BMI(height, weight)
print('Your BMI is: {} which is {}, the normal BMI is between 18.5 to 25'.format(bmi, calculation))

Enter height in Meter: 1.70
Enter weight in KG: 60

Your BMI is: 20.76 which is Healthy, the normal BMI is between 18.5 to 25
```

After you run the code, it will ask for height and weight



```
Enter height in Meter: 1.6
Enter weight in KG: 58
```

And then it will calculate and return the BMI,

```
-----
Your BMI is: 22.66 which is Healthy, the normal BMI is between 18.5 to 25
```

[Link to GitHub](#)

4- Feedback Analysis

This project aims to train and prepare a "feedback analysis model" to be used at the time that we would have the "feedback" feature for any of our products.

As currently we don't have a "Feedback" feature in our products, so I will be using an "Amazon food reviews and rating" dataset in csv format (which are text reviews and rating the food out of five stars)

- *The Vader Model is developed*
- *Ran NLTK work tokenizer to splits the feedbacks*
- *The required Tokens are generated*
- *Sentiment scores are generated and added to the current dataset*

The Python has been used to create the Model:



- **the plot we can see frome that most of the reviews are 5 stars**

```
In [83]: # Test 2
sia.polarity_scores('This is the worst thing ever.')
Out[83]: {'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

In [4]: sia.polarity_scores('This is the best thing ever.')
Out[4]: {'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

Below indicates the project progress steps and the whole Python code:

- The required libraries imported:

Jupyter Feedback Analysis Last Checkpoint: 04/21/2023 (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help

Not Trusted | Python 3 (ipykernel) C

```
In [ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

plt.style.use('ggplot')

import nltk
nltk.download()

showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml
```

```
In [ ]: import nltk
nltk.download('maxent_ne_chunker')
```

```
In [ ]: import nltk
nltk.download('words')
```

```
In [28]: import nltk
nltk.download('vader_lexicon')

[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\ella\AppData\Roaming\nltk_data...
```

```
Out[28]: True
```

- The data set imported

```
In [17]: # Read in data
feedback = pd.read_csv('Reviews.csv')
feedback.head()
```

	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1	1	5	1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0	0	1	1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1	1	4	1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3	3	2	1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0	0	5	1350777600	Great taffy	Great taffy at a great price. There was a wid...

```
In [ ]: feedback.shape
```

Ella Zarandi (222064699)

Out[18]:										
	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	Summary	Text
0	1	B001E4KFG0	A3SGXH7AUHU8GW	delmartian	1		1	5 1303862400	Good Quality Dog Food	I have bought several of the Vitality canned d...
1	2	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0		0	1 1346976000	Not as Advertised	Product arrived labeled as Jumbo Salted Peanut...
2	3	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1		1	4 1219017600	"Delight" says it all	This is a confection that has been around a fe...
3	4	B000UA0QIQ	A395BORC6FGVXV	Karl	3		3	2 1307923200	Cough Medicine	If you are looking for the secret ingredient i...
4	5	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0		0	5 1350777600	Great taffy	Great taffy at a great price. There was a wid...

- Ran a Quick EDA to get an idea of what the data set looks like

Value count on Score column to see the number of times each score occurs

```
In [19]: feedback['Score'].value_counts().sort_index()  
Out[19]: 1    36  
2     18  
3     37  
4    70  
5   339  
Name: Score, dtype: int64  
  
In [20]: ax = feedback['Score'].value_counts().sort_index() \  
         .plot(kind='bar',  
                title='Count of Reviews by Stars',  
                figsize=(10, 5))  
ax.set_xlabel('Review Stars')  
plt.show()
```



From the plot we can see that most of the reviews are 5 stars

- Running NLTK work tokenizer to splits the sentence into the parts of each word in the sentence

```
ex = feedback['Text'][50]  
print(ex)  
  
This oatmeal is not good. Its mushy, soft, I don't like it. Quaker Oats is the way to go.
```

the result came back negative

```
tokens = nltk.word_tokenize(ex)
tokens

['This',
'oatmeal',
'is',
'not',
'good',
'.',
'It\'s',
'mushy',
',',
'soft',
',',
'I',
'do',
"n't",
'like',
'it',
'.',
'Quaker',
'Oats',
'is',
'the',
'way',
'to',
'go',
'.']
```

- ***Running the nltk pos tag for part of speech tagging***

```
speech_tagged = nltk.pos_tag(tokens)
speech_tagged[:10]

[('This', 'DT'),
('oatmeal', 'NN'),
('is', 'VBZ'),
('not', 'RB'),
('good', 'JJ'),
('.','.'), 
('It\'s', 'PRP$'),
('mushy', 'NN'),
(',',','), 
('soft', 'JJ')]
```

- ***Grouping the Tokens into chunks of text***

```
entities = nltk.chunk.ne_chunk(speech_tagged)
entities pprint()

(S
  This/DT
  oatmeal/NN
  is/VBZ
  not/RB
  good/JJ
  ./
  Its/PRP$ 
  mushy/NN
  ,/
  soft/JJ
  ,/
  I/PRP
  do/VBP
  n't/RB
  like/VB
  it/PRP
  ./
  (ORGANIZATION Quaker/NNP Oats/NNPS)
  is/VBZ
  the/DT
  way/NN
  to/T0
  go/VB
  ./.)
```

Implementing the Vader Model:

Vader Sentiment Scoring

VADER(Valence Aware Dictionary for Sentiment Reasoning) is an NLTK module that provides sentiment scores based on the words used. It is a rule-based sentiment analyzer in which the terms are generally labeled as per their semantic orientation as either positive or negative.

VADER has the advantage of assessing the sentiment of any given text without the need for previous training as we might have to for Machine Learning models. The result generated by VADER is a dictionary of 4 keys neg, neu, pos and compound: neg, neu, and pos meaning negative, neutral, and positive respectively.

This module uses a “bag of words” approach:

- Stop words are removed
- Each word scored and combined to a total score
- This model is not account for relationship between words

```
from nltk.sentiment import SentimentIntensityAnalyzer
from tqdm.notebook import tqdm

#sia is an created object of "Sentiment Intensity Analyzer"
sia = SentimentIntensityAnalyzer()
```

Testing our object

```
sia.polarity_scores('I am so happy!')
```

The result is: negative as zero, neutral point = 0.318 and positive point= 0.682, So this sentence is mostly positive

```
# Test 2
sia.polarity_scores('This is the worst thing ever.')
{'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

sia.polarity_scores('This is the best thing ever.')
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```

The result is: negative point = 0.451, neutral point = 0.549 and positive point= 0 and compound: -0.6249 So this sentence is mostly Negative

```
# Running the sia on our tokens
sia.polarity_scores(ex)
{'neg': 0.22, 'neu': 0.78, 'pos': 0.0, 'compound': -0.5448}
```

The result is: negative point = 0.22, neutral point = 0.78 and positive point= 0 and compound: -0.5448 So this sentence is mostly Negative

Run the polarity score on the entire dataset, the result is a dictionary which stores the result of the below loop which each raw would

```
result = {}
for i, row in tqdm(feedback.iterrows(), total=len(feedback)):
    text = row['Text']
    myid = row['Id']
    result[myid] = sia.polarity_scores(text)

0% | 0/500 [00:00<?, ?it/s]
```

Here shows the result dictionary with each id that contain the scores of neg, neu, pos and compound which stored in a Panda data frame to make it easier to work with and displayed horizontally

```
pd.DataFrame(result).T
```

	neg	neu	pos	compound
1	0.000	0.695	0.305	0.9441
2	0.138	0.862	0.000	-0.5664
3	0.091	0.754	0.155	0.8265
4	0.000	1.000	0.000	0.0000
5	0.000	0.552	0.448	0.9468
...
496	0.000	0.554	0.446	0.9725
497	0.059	0.799	0.142	0.7833
498	0.025	0.762	0.212	0.9848
499	0.041	0.904	0.055	0.1280
500	0.000	0.678	0.322	0.9811

500 rows × 4 columns

So now we have a data frame that has index which is the IDs and the four neg, neu, pos and compound fields, we call this result Vaders

```
#vaders.reset_index().rename(columns={'index': 'Id'})  
vaders["Id"] = feedback["Id"]  
#vaders.merge(feedback, how='Left')  
#vaders.columns  
  
vaders.columns  
Index(['neg', 'neu', 'pos', 'compound', 'Id'], dtype='object')  
  
vaders=vaders.merge(feedback, how='left')
```

Now we have sentiment score added to the original fields

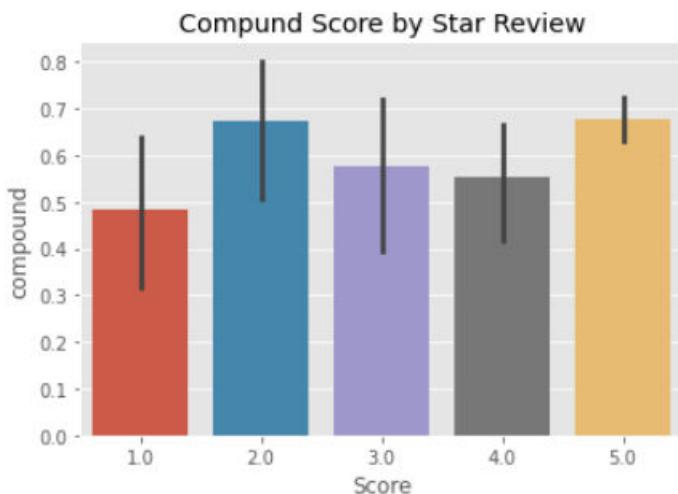
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vaders.head()													
	neg	neu	pos	compound	Id	ProductId	UserId	ProfileName	HelpfulnessNumerator	HelpfulnessDenominator	Score	Time	
0	0.000	0.695	0.305	0.9441	2.0	B00813GRG4	A1D87F6ZCVE5NK	dll pa	0.0	0.0	1.0	1.346976e+09	
1	0.138	0.862	0.000	-0.5664	3.0	B000LQOCHO	ABXLMWJIXXAIN	Natalia Corres "Natalia Corres"	1.0	1.0	4.0	1.219018e+09	
2	0.091	0.754	0.155	0.8265	4.0	B000UA0QIQ	A395BORC6FGVXV	Karl	3.0	3.0	2.0	1.307923e+09	
3	0.000	1.000	0.000	0.0000	5.0	B006K2ZZ7K	A1UQRSCLF8GW1T	Michael D. Bigham "M. Wassir"	0.0	0.0	5.0	1.350778e+09	
4	0.000	0.552	0.448	0.9468	6.0	B006K2ZZ7K	ADT0SRK1MGOEU	Twoapennything	0.0	0.0	4.0	1.342051e+09	

Plot VADER results

Runing the Plot on vaders' data by assigning x the score valuse which is the star review of the the person and then compound is going to be our y value and that's the negative to positive.

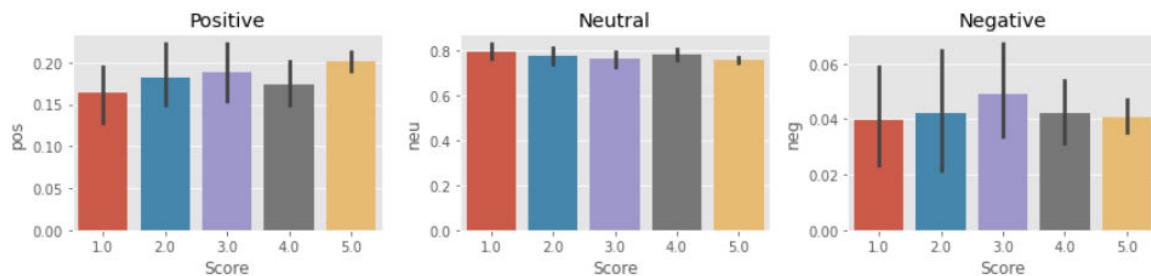
```
ax = sns.barplot(data=vaders, x='Score', y='compound')
ax.set_title('Compund Score by Star Review')
plt.show()
```



The plot shows that one star review has lower compound score and the five star view is higher

Running the Plot based on the positive neutral and negative scores

```
fig, axs = plt.subplots(1, 3, figsize=(12, 3))
sns.barplot(data=vaders, x='Score', y='pos', ax=axs[0])
sns.barplot(data=vaders, x='Score', y='neu', ax=axs[1])
sns.barplot(data=vaders, x='Score', y='neg', ax=axs[2])
axs[0].set_title('Positive')
axs[1].set_title('Neutral')
axs[2].set_title('Negative')
plt.tight_layout()
plt.show()
```



The plots confirm that our Vader Model is valuable in having the connection between the score of the text and sentiment score and it does relate to the actual rating review of the reviewers

[Link to GitHub:](#)

5- Fitness Summary Reporting

The aims of this project is to create the summary reports, using SQL queries on the “`fitness_data.master_data`” table accessible in the BigQuary.

In this project some dashboards designed using Tableau to visualize the user’s workouts reports

Summary Reports – All users

For the best measure of calories burned, the ELEMNT GPS devices series (including the ELEMNT, BOLT, ROAM, and RIVAL) and Wahoo Fitness app default to using calculations based on power output when a trainer or power meter are connected (if no direct power source is connected, heart rate will be used to calculate calories as described further below). Calories from power are calculated based on the following formula:

- **Calorie rate = (4.184kJ) * 0.239GMR**

In the calculation above, Kilo Joules (**kJ**) are measured from the trainer or power meter and multiplied by the Gross Metabolic Rate (**GMR**, an average of gross metabolic efficiency),

estimated at 23.9% since 1 Calorie is equal to 4.184kJ of work and the human body is about 24% efficient at burning calories.

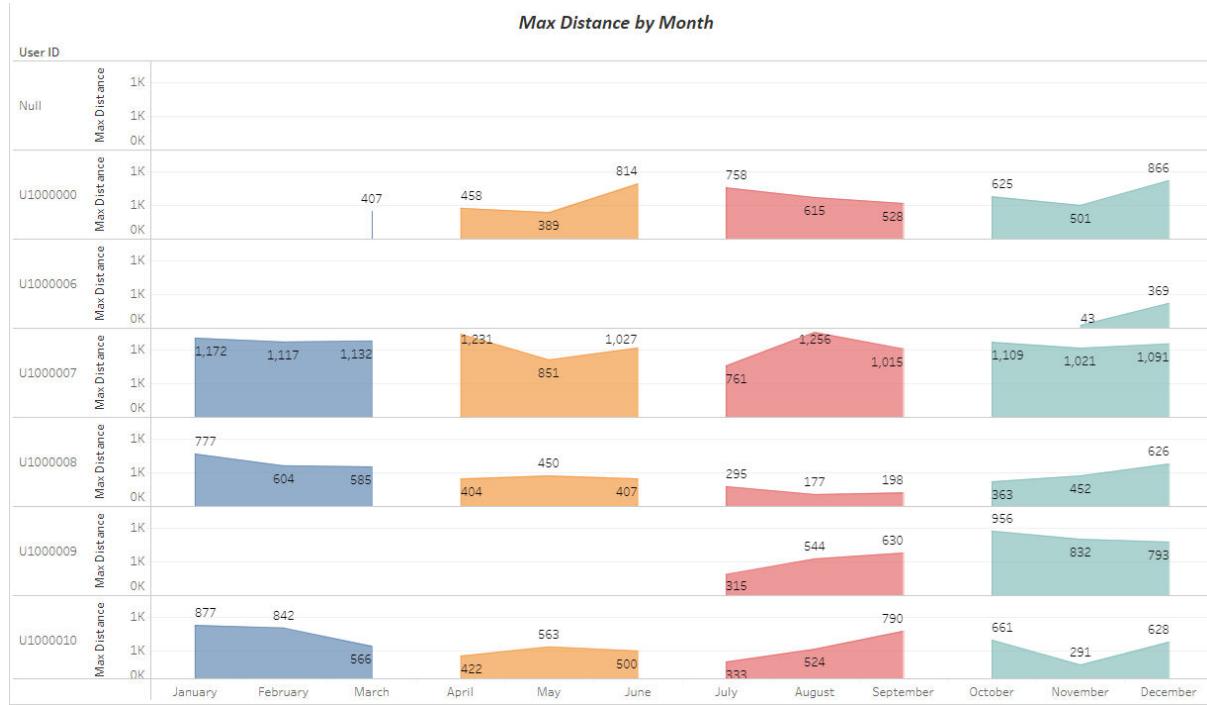
The MAX calories – By Month

```
SELECT DISTINCT EXTRACT(MONTH from date_AEST) AS month, userId, max(calories) as max_calories
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE calories IN
      (SELECT max(calories) as max_calories
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from date_AEST)
      )
GROUP BY userID, month
ORDER BY month
```

The MAX Distance – By Month

```
SELECT f.date_AEST, f.userId, max(f.distance) as max_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
inner join
      (SELECT s.userID, max(s.distance) as max_distance
       FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
       WHERE date_AEST BETWEEN '2021-01-01' AND '2022-01-01'
       GROUP BY EXTRACT(MONTH from s.date_AEST), s.userID
      )
ON f.userID = s.userID and
GROUP BY f.userID, date_AEST
```

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Total Calories and Distance for all users by each date – 2021

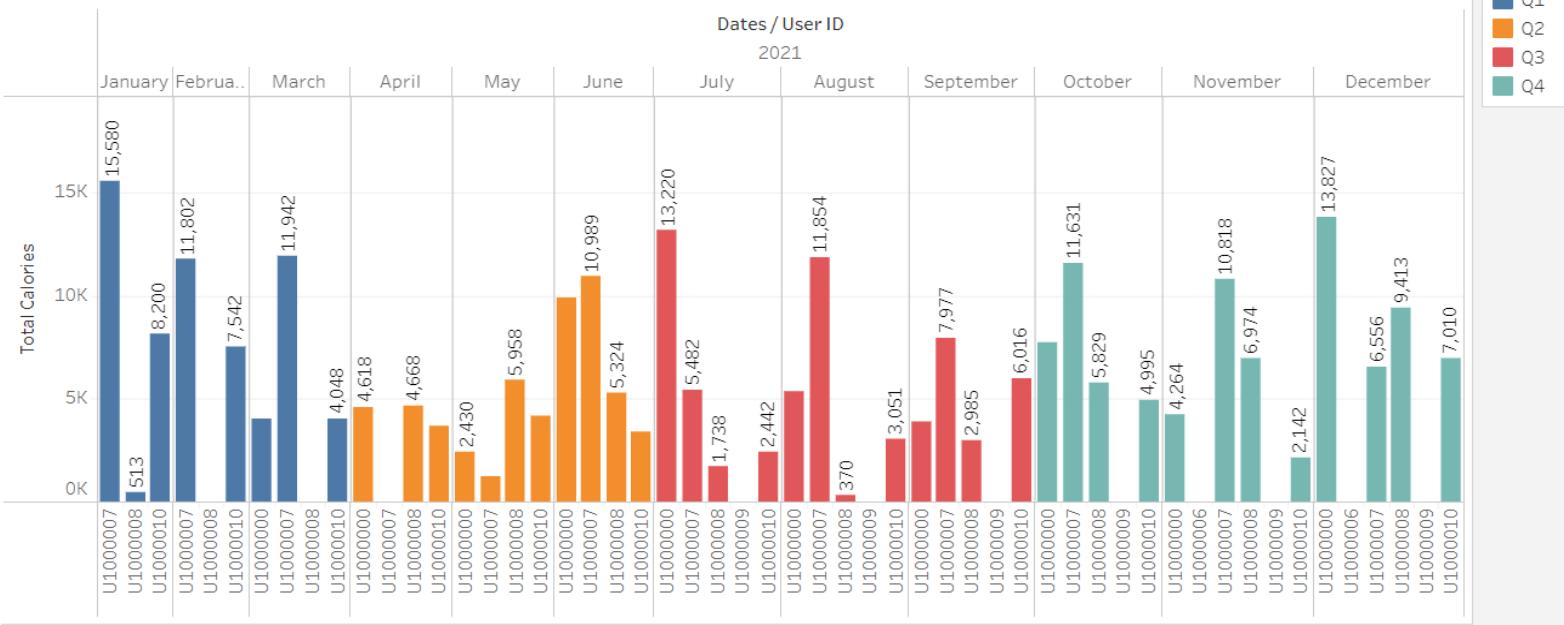
```

SELECT userID, date_AEST AS dates, Round(SUM(calories)/4.18) as total_calories,
       Round(SUM(distance)/1000)AS total_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data` 
WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31')

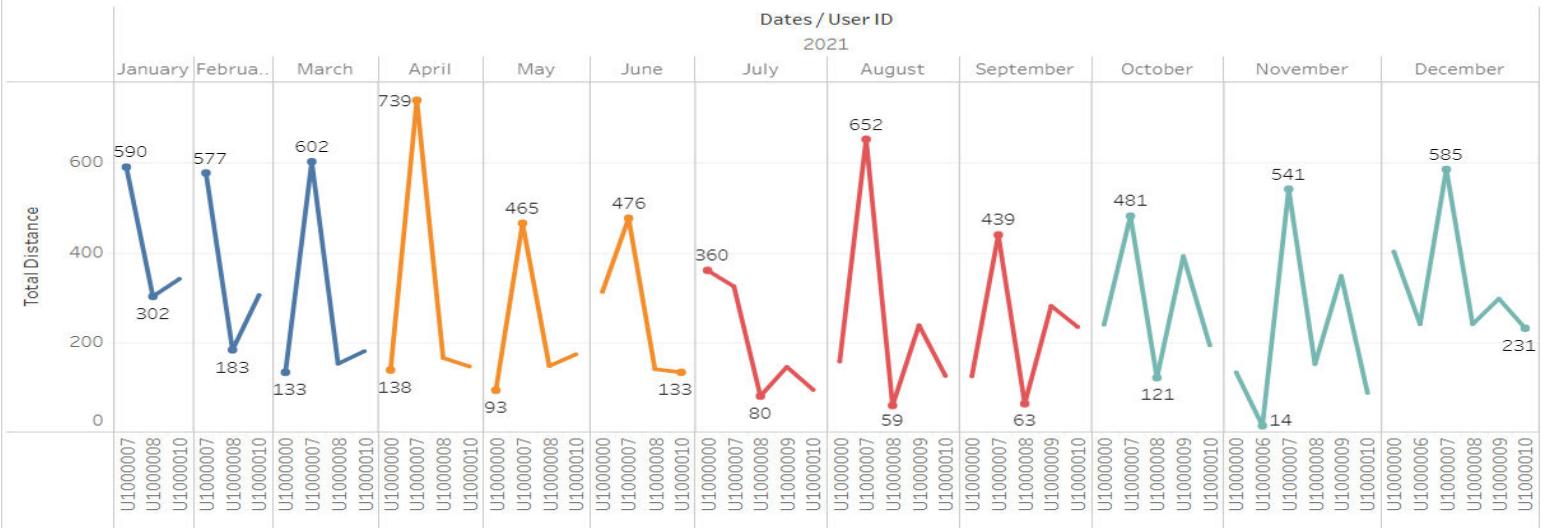
GROUP BY date_AEST, userID
ORDER BY date_AEST
    
```

Row	userID	dates	total_calories	total_distance
1	U1000007	2021-01-01	3293.0	66.0
2	U1000007	2021-01-02	3791.0	70.0
3	U1000010	2021-01-02	101.0	5.0
4	U1000007	2021-01-03	122.0	8.0
5	U1000007	2021-01-05	749.0	16.0
6	U1000010	2021-01-07	1308.0	54.0
7	U1000010	2021-01-08	77.0	4.0
8	U1000007	2021-01-08	1205.0	28.0
9	U1000008	2021-01-08	null	3.0
10	U1000010	2021-01-09	568.0	22.0
11	U1000007	2021-01-09	null	106.0
12	U1000008	2021-01-09	233.0	31.0
13	U1000008	2021-01-10	null	11.0
14	U1000007	2021-01-10	1291.0	49.0

Total Calories - All Users



Total Distance - All Users



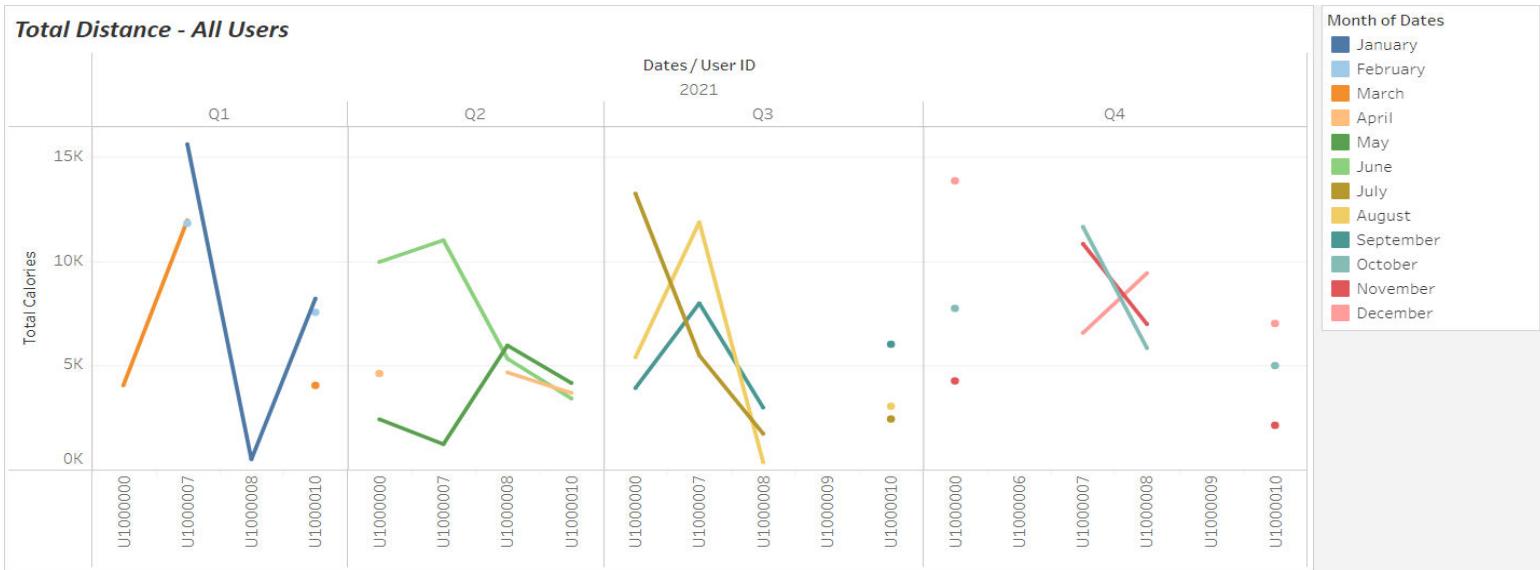
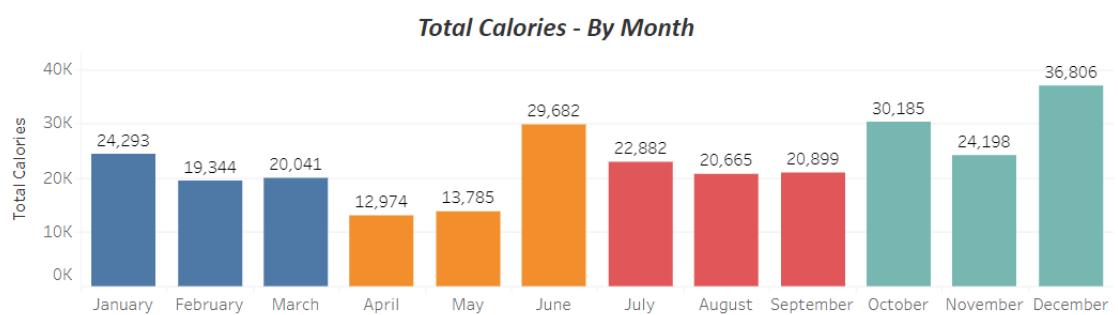
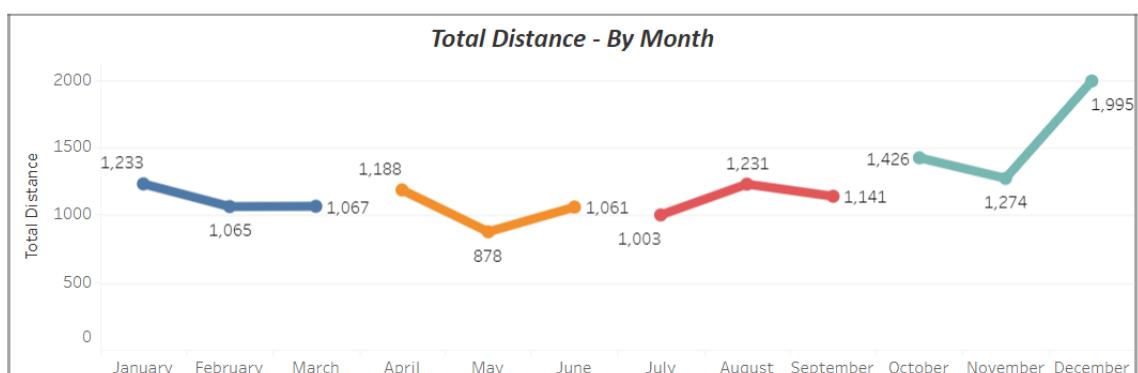


Tableau Dashboard - Total Report by Month (All Users)

Tracking Summary Report 2021 - All Users

Month of Dates	Total Calories	Total Distance
January	24,293	1,233
February	19,344	1,065
March	20,041	1,067
April	12,974	1,188
May	13,785	878
June	29,682	1,061
July	22,882	1,003
August	20,665	1,231
September	20,899	1,141
October	30,185	1,426
November	24,198	1,274
December	36,806	1,995



- Average, MAX and MIN distance and calories for all riders – By Month

SELECT

```
EXTRACT(MONTH from date_AEST) AS month,
round(AVG(calories)) as avg_calories,
Round(AVG(distance))AS agv_distance,
round(MAX(calories)) as max_calories,
Round(MAX(distance))AS max_distance,
round(MIN(calories)) as min_calories,
Round(MIN(distance))AS min_distance,
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
```

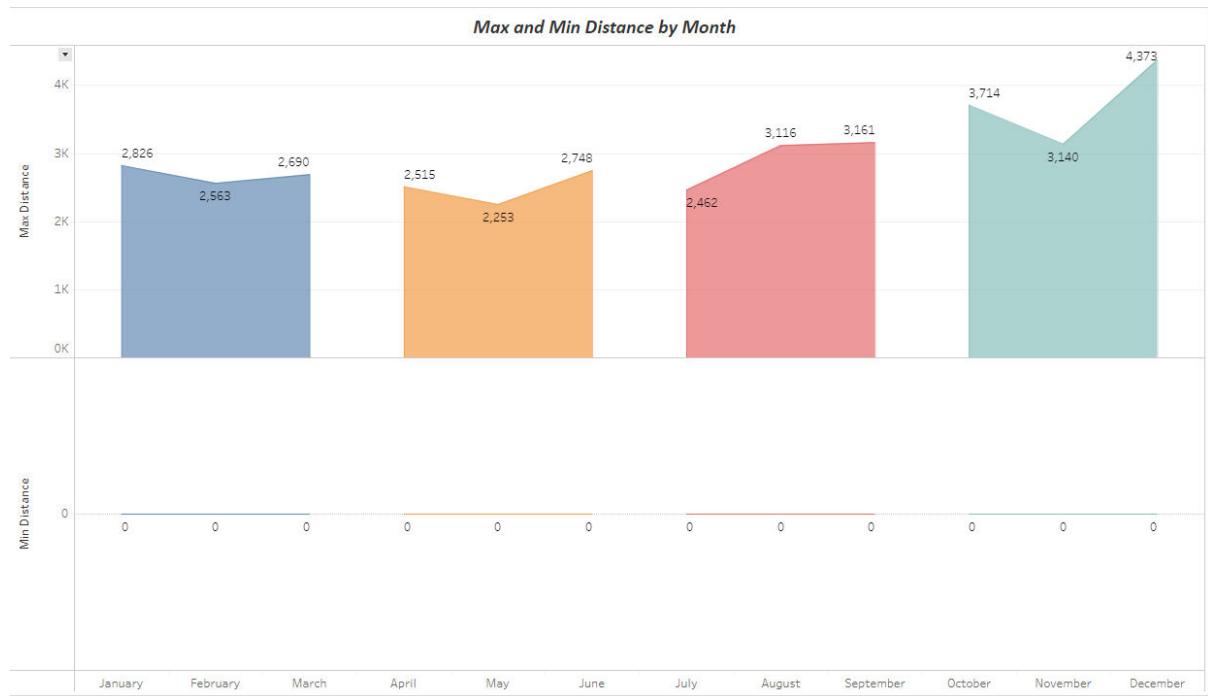
```
WHERE date_AEST BETWEEN '2021-01-01' AND '2021-12-30'
```

```
GROUP BY month
ORDER BY month;
```

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**Monthly Calories and Distance Report - All Users
(Average, MAX and MIN)**

Month of d..	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0



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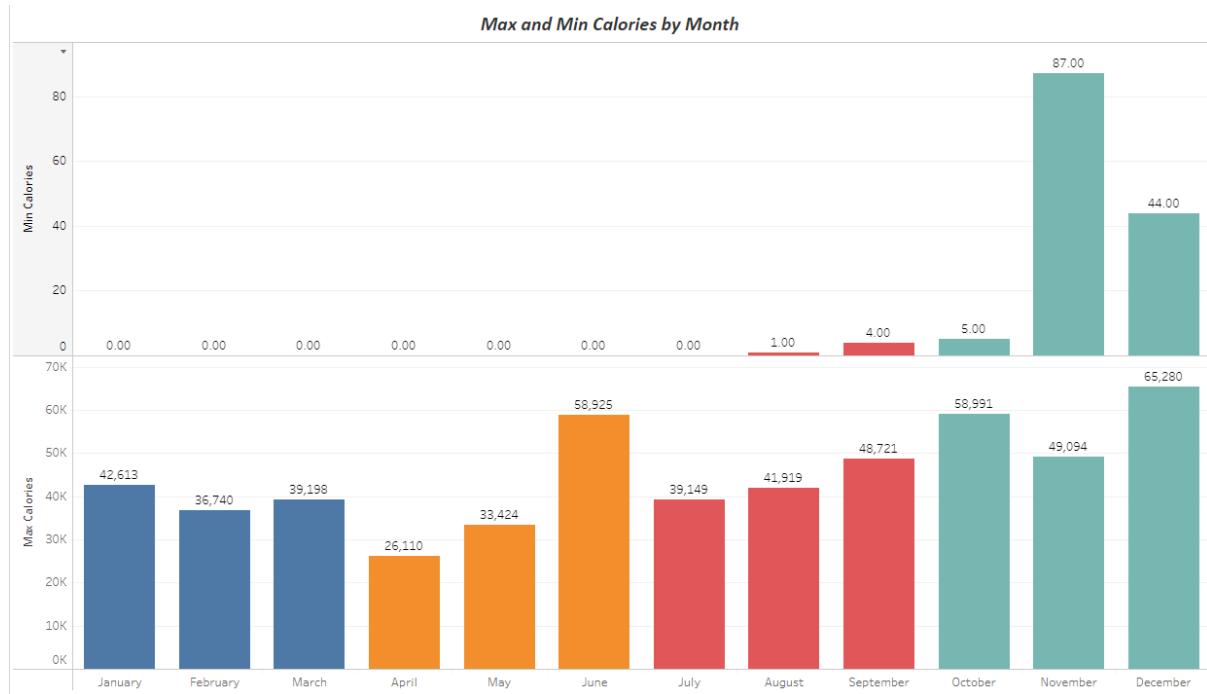


Tableau Dashboard - Monthly Calories and Distance Report

All Users (Average, MAX and MIN)



Summary Cycling Tracking 2021

Monthly Totals for each user:

The below query would calculate the Monthly total distance in KM, total calories and the total hours, for each users in 2021,

Calculation For User U1000000

```
SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18)   AS total_calories,
       Round(SUM(distance)/1000)   AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
  FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
 WHERE userID = "U1000000"
   and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
   and date_AEST
 GROUP BY month
 ORDER BY month;
```

month	total_calories	total_distance	total_hour
3	4050.0	136.0	13.0
4	4619.0	140.0	15.0
5	2429.0	92.0	14.0
6	9950.0	313.0	23.0
7	13220.0	362.0	23.0
8	5389.0	157.0	18.0
9	3920.0	124.0	15.0
10	7730.0	241.0	16.0
11	4264.0	133.0	14.0
12	13828.0	402.0	26.0

Total Calories - By Day

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268		651			
3		269		84	417			1,098				
4		114		159			276			69		
5				294			288			67		
6		292		219	313			113				
7			795		29		308		270			
8					29	633	93	2,172				
9					530	161			288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186			140	
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190				678		
17		1,407		788							1,976	
18	107					184	73					
19	490		28	984		165		359				
20	9		48	2,308					358			
21			351		950	554			27	593		
22		2	19	299		773	60	320	159	581		
23					215		300		284			
24		1,335					179	1,126	888	410		
25								179		563		
26	833	16			570	125		72			820	
27		27	320	830	35	342	184				3,106	
28		26				571		481	131		1,769	
29		46	202	355							1,694	
30	14	65		524		67			144		1,146	
31		481		157		74		1,525				

Calculation For User U1000007

```

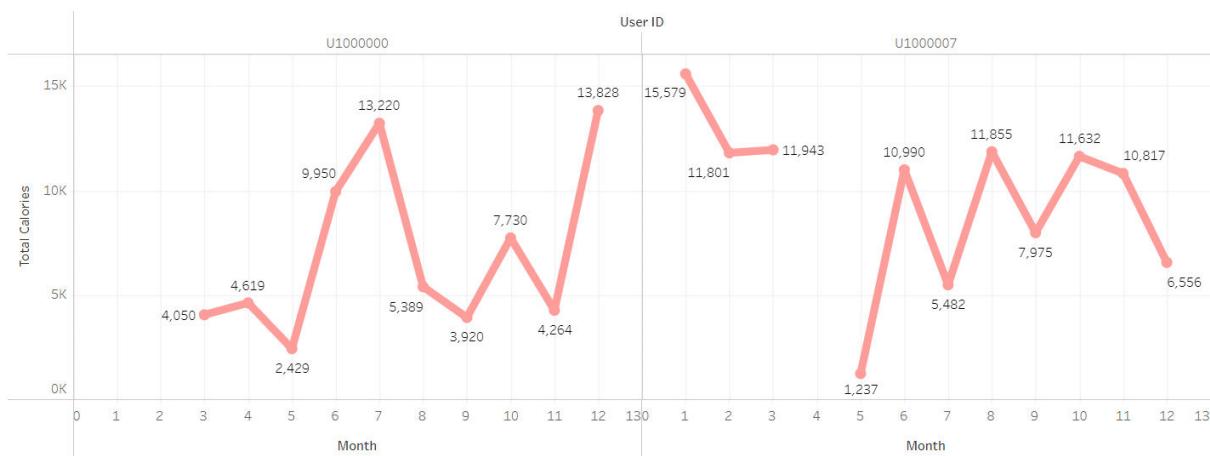
SELECT EXTRACT(MONTH from date_AEST) AS month,
       ROUND(SUM(calories)/4.18) AS total_calories,
       Round(SUM(distance)/1000) AS total_distance,
       ROUND(count(date_AEST)/4663) AS total_hour
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
WHERE userID = "U1000007"
      and date_AEST BETWEEN 2021-12-31' AND '2022-01-01'
      and date_AEST
GROUP BY month
ORDER BY month;

```

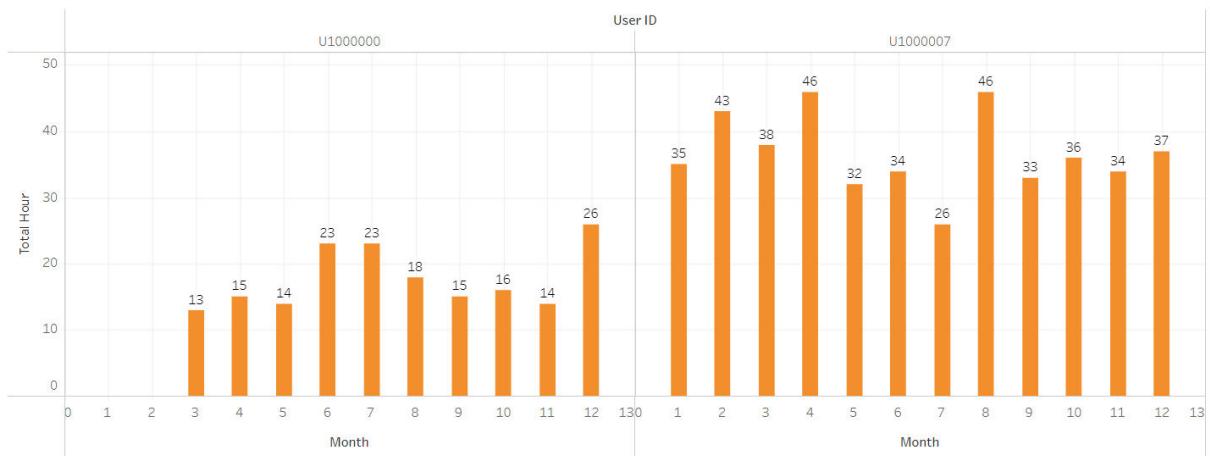
Ella Zarandi (222064699)

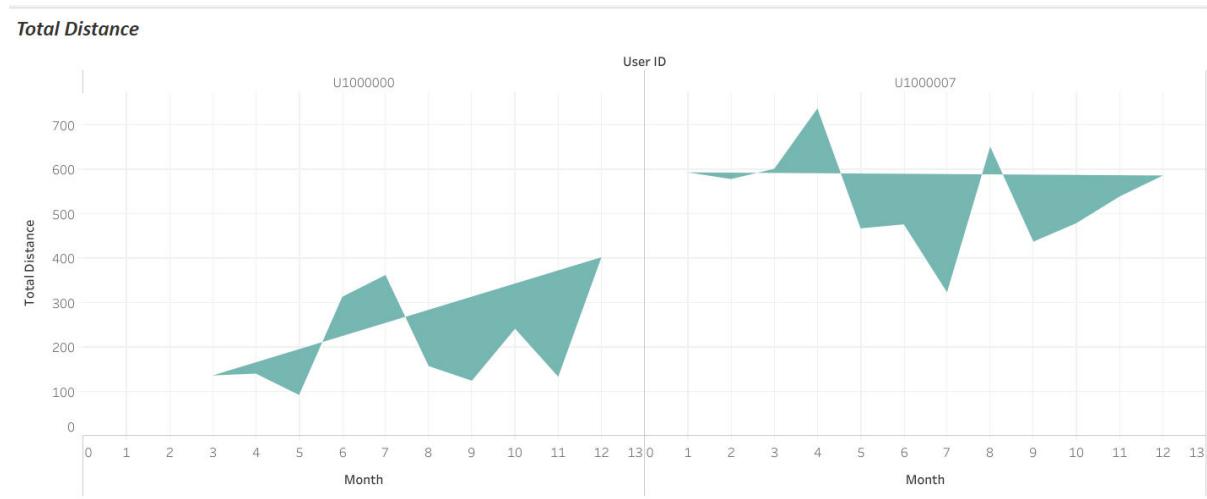
month	total_calories	total_distance	total_hour
1	15579.0	593.0	35.0
2	11801.0	578.0	43.0
3	11943.0	601.0	38.0
4	null	737.0	46.0
5	1237.0	467.0	32.0
6	10990.0	476.0	34.0
7	5482.0	323.0	26.0
8	11855.0	651.0	46.0
9	7975.0	437.0	33.0
10	11632.0	479.0	36.0
11	10817.0	539.0	34.0
12	6556.0	586.0	37.0

Total Calories



Total Hours





Daily Total Report for each user:

The below query would calculate the total distance in KM and total calories for each day of the year 2021:

For user U1000000

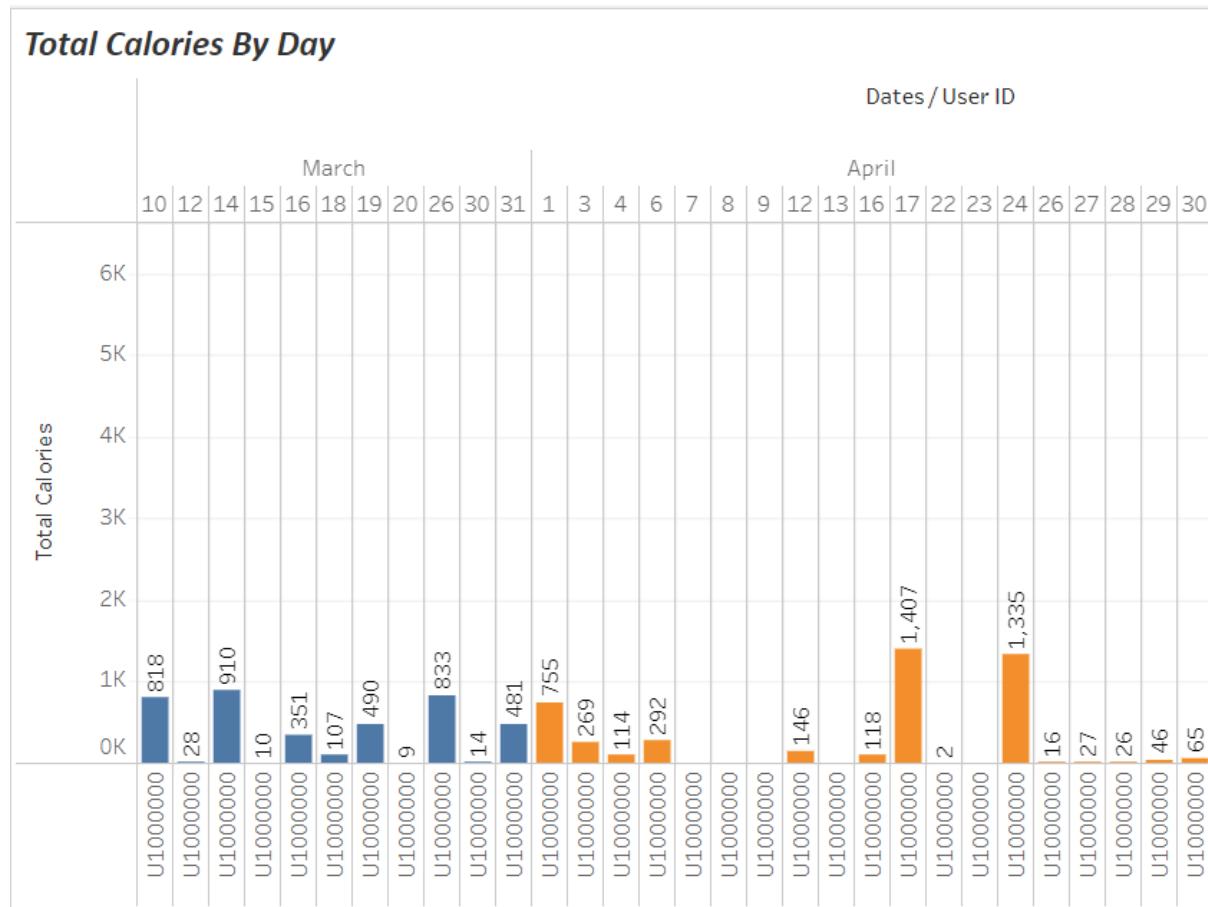
```
SELECT userID,
       date_AEST AS dates,
       ROUND(SUM(calories/4.18)) AS total_calories,
       Round(SUM(distance/1000))   AS total_distance
  FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
 WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31)
   AND userID = 'U1000000'
 GROUP BY date_AEST, userID
 ORDER BY date_AEST
```

Ella Zarandi (222064699)

Row	userID	dates	total_calories	total_distance
1	U1000000	2021-03-10	818.0	26.0
2	U1000000	2021-03-12	28.0	1.0
3	U1000000	2021-03-14	910.0	31.0
4	U1000000	2021-03-15	10.0	0.0
5	U1000000	2021-03-16	351.0	10.0
6	U1000000	2021-03-18	107.0	3.0
7	U1000000	2021-03-19	490.0	19.0
8	U1000000	2021-03-20	9.0	0.0
9	U1000000	2021-03-26	833.0	26.0
10	U1000000	2021-03-30	14.0	0.0
11	U1000000	2021-03-31	481.0	17.0
12	U1000000	2021-04-01	755.0	25.0
13	U1000000	2021-04-03	269.0	7.0
14	U1000000	2021-04-04	114.0	3.0
15	U1000000	2021-04-06	292.0	9.0

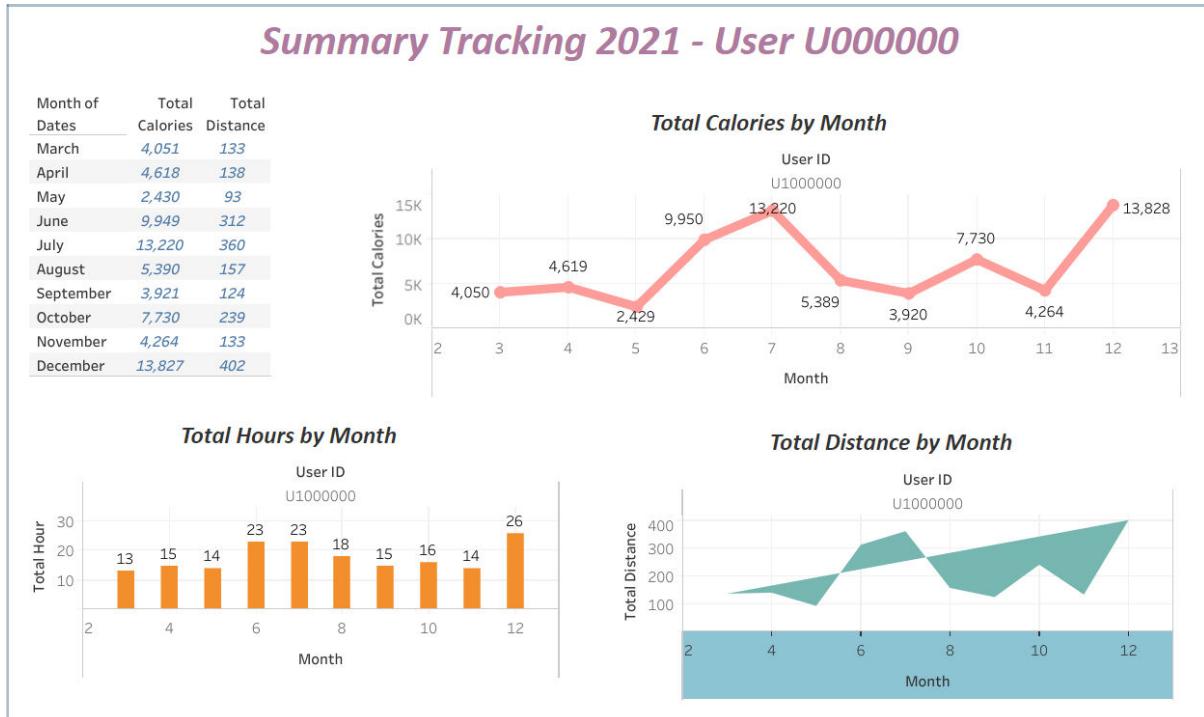
Total Calories - By Day

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284				214	
2			33	461	293	540	268			651		
3		269		84	417				1,098			
4		114		159			276				69	
5			294				288			67		
6		292		219	313			113				
7			795		29		308		270			
8				29		633	93	2,172				
9				530	161				288			
10	818				461		1,095		434			
11				130	2,488					631		
12	28	146			234		172	99				
13				1,962		553	114	186		140		
14	910		1	170		154	200					
15	10			327	5,461	182	27					
16	351	118	297			190				678		
17		1,407		788						1,976		
18	107					184	73					
19	490		28	984		165		359			358	
20	9		48	2,308							27	593
21			351		950	554					284	
22		2	19	299		773	60	320	159		581	
23					215		300					
24		1,335					179	1,126	888		410	
25							179	179	563			
26	833	16			570	125		72			820	
27		27	320	830	35	342	184				3,106	
28		26		355		571		481	131		1,769	
29		46	202									1,694
30		14	65	524			67			144		1,146
31		481		157			74		1,525			

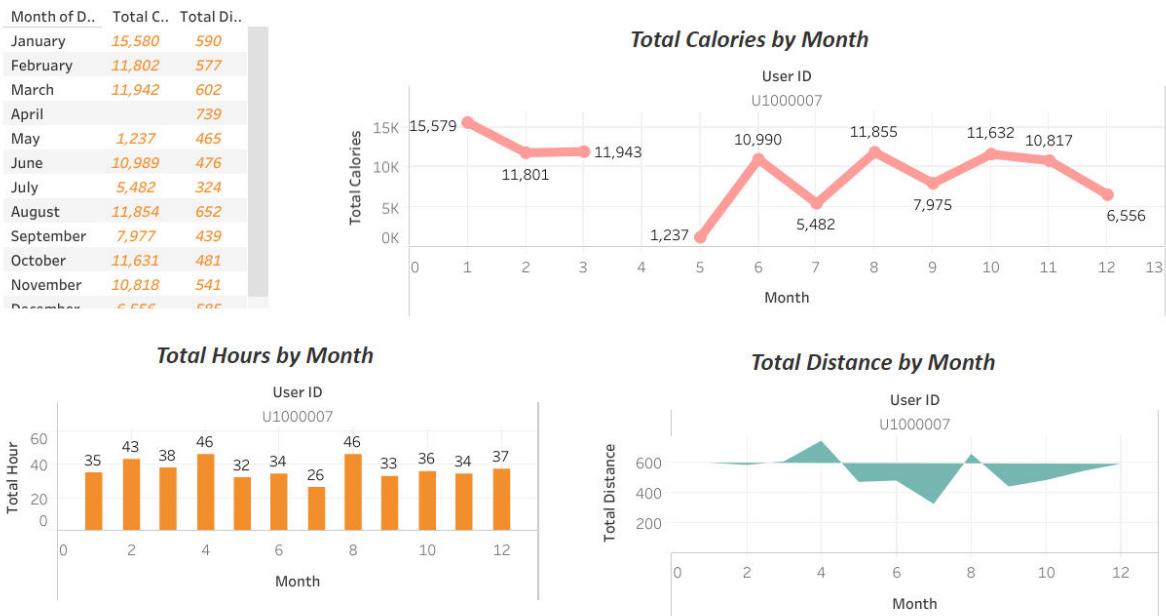


Created the following Summary Tracking Dashboards using Tableau:

Monthly Total – for User1 and User7



Tracking Summary Report 2021 - User U000007



The below query would calculate the Monthly Average distance (KM) and calories for each user – in year 2021:

```
select userID, EXTRACT(MONTH from date_AEST) AS month, round(AVG(calories)) as avg_calories, Round(AVG(distance))AS avg_distance
FROM `sit-23t1-fit-data-pipe-ee8896e.fitness_data.master_data`
```

Ella Zarandi (222064699)

WHERE (date_AEST BETWEEN '2021-01-01' AND 2021-12-31) AND userID = 'U1000000'

GROUP BY month, userID
ORDER BY month;



Tableau Dashboard – Monthly report

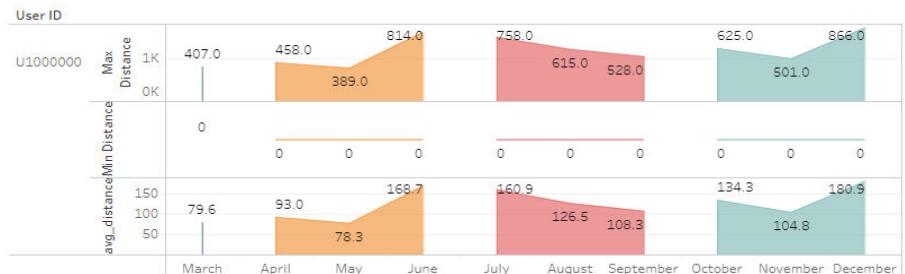
(Avg, Max, Min) – U0000000

Max, Min, and Avg Monthly Report 2021 - U000000

Monthly Calories and Distance Report - U1000000
 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
March	1,715	80	8,962	407	0	0
April	2,113	93	10,235	458	0	0
May	1,549	78	7,527	389	0	0
June	4,053	169	19,276	814	0	0
July	4,027	161	18,668	758	0	0
August	3,109	127	15,411	615	1	0
September	2,508	108	12,522	528	0	0
October	3,098	134	14,147	625	0	0
November	2,384	105	11,401	501	0	0
December	4,424	181	20,751	866	0	0

Max, Min and Avg Distance Report by Month (U000000)



Monthly Caloriy Report (Max, Min and Avg) - U000007

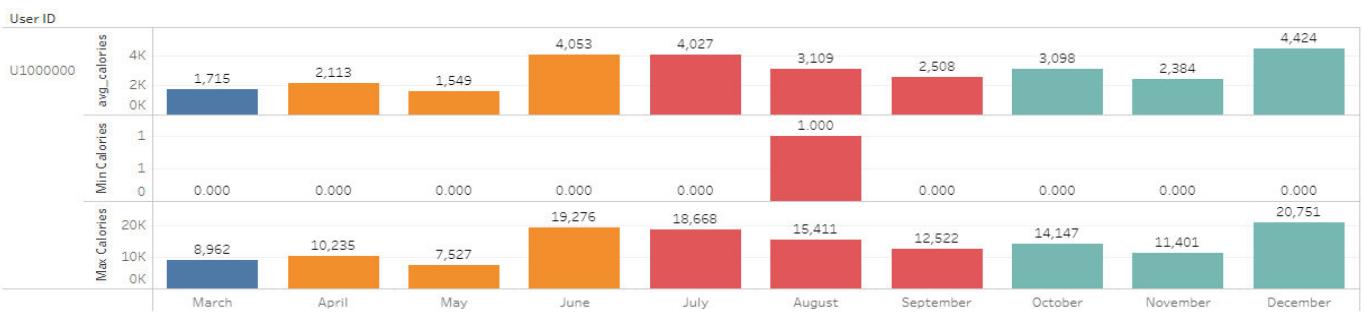


Tableau Dashboard – Monthly report

Ella Zarandi (222064699)

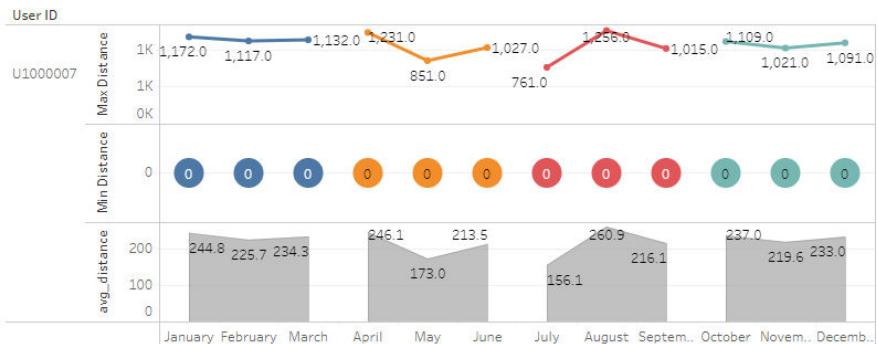
(Avg, Max, Min) – U000007

Max, Min, and Avg Monthly Report 2021 - U000007

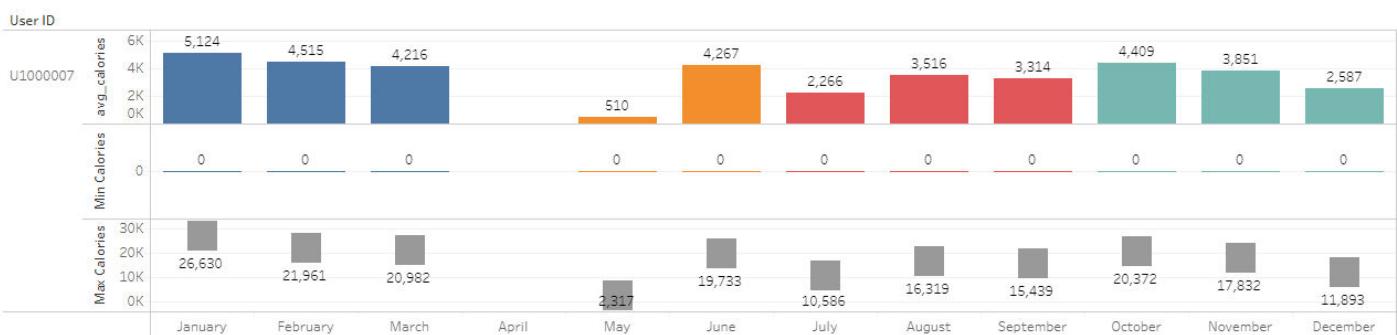
Monthly Calories and Distance Report - U000007 (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	5,124	245	26,630	1,172	0	0
February	4,515	226	21,961	1,117	0	0
March	4,216	234	20,982	1,132	0	0
April		246		1,231		0
May	510	173	2,317	851	0	0
June	4,267	213	19,733	1,027	0	0
July	2,266	156	10,586	761	0	0
August	3,516	261	16,319	1,256	0	0
September	3,314	216	15,439	1,015	0	0
October	4,409	237	20,372	1,109	0	0
November	3,851	220	17,832	1,021	0	0
December	2,587	233	11,893	1,091	0	0

Max, Min and Avg Distance Report by Month (U000007)



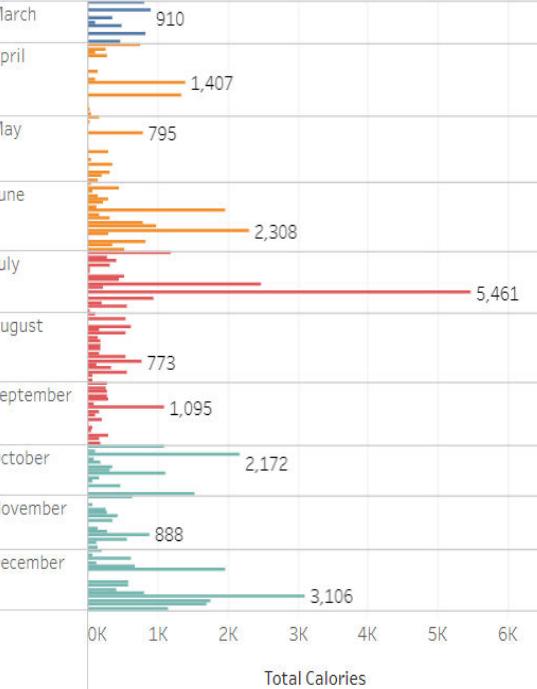
Max, Min and Avg Calories Report by Month (U000007)



Daily Calorie Tracking 2021 - User U000000

Day of Dates	Dates											
	March	April	May	June	July	August	Septem..	October	Novem..	Decemb..		
1		755	179	55	1,195	122	284			214		
2			33	461	293	540	268		651			
3		269		84	417				1,098			
4		114		159				276		69		
5			294				288		67			
6		292		219	313			113				
7			795		29		308		270			
8				29	633	93	2,172					
9				530	161				288			
10	818			461		1,095		434				
11				130	2,488				631			
12	28	146		234		172	99					
13				1,962	553	114	186		140			
14	910		1	170	154	200						
15	10		327	5,461	182	27						
16	351	118	297		190				678			
17		1,407		788					1,976			
18	107				184	73						
19	490		28	984	165		359					
20	9		48	2,308				358				
21			351		950	554		27	593			
22		2	19	299		773	300	320	159	581		
23					215		300	284				
24		1,335				179	1,126	888	410			
25						179	1,126	888	410			
26	833	16		570	125		72		820			
27		27	320	830	35	342	184		3,106			
28		26	202	355		571		481	131	1,769		
29		46								1,694		
30	14	65		524		67		144		1,146		
31	481		157			74	1,525					

Month of D..



Daily Calorie Tracking 2021 - User U000007



[Link to GitHub](#)

Participated in IOT Projects

In IOT team, my technical participation was applied mostly in the shape of a project manager, as below:

- Planned features and goals based on the project's status, time and our team capabilities,
- Sprint planning, task assigning and setting the deadlines
- Tracking closely the work flow to make sure that all deadlines are met,
- Suggested possible solutions when team faced any problems,
- Monitored the problem solving process closely and stepped in when needed
- Provided 1:1 support to make sure everyone are in the right track
- **modified the projects**
- **Provided resources, solutions and instructions**

Here is some example of my technical participation in IOT:

1- Remote access to the PI

- Provided resources,
- Tracked the task and provided feedback
- Asked to create an instruction document and include all the links and steps needs to be taken to get remote access to the PI

2- Workout Projects

At the start of this Trimester, it was only one workout (Ramp) implemented which was controlled by the APP, I planned that we develop another three workouts as below:

- Strength
- Endurance
- Threshold

The data is received via Bluetooth using the RPI and submitted via “MQTT” to a broker which distributed that data to relevant process including “The Flutter Mobile App” which can start and stop the workouts.

Problem: The app was down and we were not able to run and test the workouts,

As this workout, was implemented and tested last year, in T2, when the Mobile team leader did a lot of mobile development on his Mac and it worked for him with his iPhone,

Based on my research over the handover doc, to be able to run the app right now we need to download both repositories (app-frontend and backend) and ensure to use the extra-data-fields branch of the backend.

Also the previous co-leader mentioned that the changes for laptop's IP address are also required so the phone knows to use the local instance of the backend on the laptop. I think Android might still have the same issue not being able to get the App working as I don't think anybody focused on this last trimester.

Solution that I came up with:

-To deploy the backend in GCP, so everyone could use that and then there is no need to hard code the IP address in the app.

-Suggested to implement the workouts just from an IOT perspective, to be start and end using IOT products (not the APP) to be able to showcase how they control the bike.

Which all implemented and tested using our bikes' data.

3- Debugging (Kickr, Fan and "All-Script")

My participation on debugging:

- Acknowledged the bug
- Recorded them as an task and project
- Assigned each task to a member
- Suggested some possible solutions
- Sat deadlines and tracked the projects to make sure that the due dates are met
- Tested/checked out the CMS to be sure the values>0 is also transported

- ***Developing a 'start_all' script project***

To get the bike start working, we were required to run several .sh scripts to enable the Drivers (.py files) to publish data, which each script needed to be executed individually,

So I advised to developing a single .sh script which ables us to start all the .sh, which now implemented

My participation on this project:

- Clarified the project to the members
- Following up with the progress and providing feedback and solution when needed.
EX: As currently the fan itself is dependent on the Unity game engine, so we decided to not including the fan into the "all-start" scrip project and work on the fix separately.
- Updating the Trello board

During my participation with Redback company what helped me the most were as below:

- Promoting communication across the company

- Acted as the point of contact for all participants
- Organized and run the meetings and events, created agendas and recorded the decisions.
- Providing 1:1 support to the leaders and team members, to be sure everyone is on track
- Keep track of all teams progress through our meeting and chat channels to establish team's work flew report, to pass it to the directors in our weekly meetings
- Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.

- *Effective problem solving process*

- *Identified the existing issues and suggested the possible solutions*
 - *Reviewed and Evaluate the status of the company's projects and products by referring to the available resources, Identified and defined the existing project's problems and issues and Suggested the possible solutions*
 - *Came up with wide range of new ideas and projects for different teams across the entire company to develop and implement new features*
-
- *Asked questions and sought for support and advice when required*
 - *Made sure that everyone were clear with their assign tasks*

This unit will help me in the future:

Through this unit I practiced how to manage and face challenges and use them as an opportunity to learn and master new skills.

Also I learnt how to seek for the resources to upskill myself when required

And the most important lesson that I've learnt is that I have a great capability to be a successful project manager ☺

Other...:

At the end, I would like to take this opportunity to express my thankfulness to the unit chairs, company directors and all capstone team, for providing me with their support, guidance, advice and feedbacks.

I truly appreciate you all, and all the time you spent to assist me when I required throughout the entire trimester.

17 Company Handover and Showcase

Showcase and Handover

Date	Author	Comment
2023/05/28 23:36	Elaheh Karimi Zarandi	Ready to Mark

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Company Handover and Showcase

Submitted By:

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Kevin LEE

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majoriti	Tim	MAJOR	
mtelley	Mark	TELLEY	
pastifo	Paul	ASTIFO	
africker	Ashley James	FRICKER	
truongt	The Tung	TRUONG	
s222181313	Pengyu	XIAO	
s222034126	Jikuan	LIU	
cjpark	Caitlin	PARKER	
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May 29, 2023



Project Handover Document

Company ----Redback Operations

Project -----Deployment of Redback website on GCP
(Google Cloud Platform)

Trimester 2, 2022

Table of Contents

1.	Project Information	3
1.1.	<i>Company Acting Director.....</i>	3
1.2.	<i>Project Team.....</i>	3
2.	Project Overview	3
3.	User Manual	3
4.	Completed Deliverables.....	4
5.	Roadmap	12
6.	Open Issues	12
7.	Lessons Learned	13
8.	Product Development Life Cycle	13
8.1.	<i>New Tasks.....</i>	13
8.2.	<i>Definition of Done.....</i>	13
8.3.	<i>Task Review</i>	14
8.4.	<i>Testing</i>	14
8.5.	<i>Branching Strategy</i>	15
9.	Product Architecture	16
9.1.	<i>UML Diagram</i>	16
9.2.	<i>Tech Stack.....</i>	16
10.	Source Code.....	17
11.	Login Credentials	17
12.	Other Relevant Information.....	Error! Bookmark not defined.
13.	Appendices	17

1. Project Information

1.1. Company Acting Director

Kevin Lee

Director

kevin.lee@deakin.edu.au

1.2. Project Team

Deployment of Redback website on GCP (Google Cloud Platform)

Redback Operations

Name	Level	Role
<i>Arjodh Singh</i>	<i>Junior</i>	<i>Team Lead</i>
<i>Astifo Paul</i>	<i>Junior</i>	<i>Team Member</i>
<i>Adhish Anand</i>	<i>Junior</i>	<i>Team Member</i>
<i>Sam TitusMenacheery</i>	<i>Junior</i>	<i>Team Member</i>
<i>Steve Lee</i>	<i>Senior</i>	<i>Team Member</i>

2. Project Overview

The main objective of the project was the deployment of Redback website on Google Cloud Platform. It entails the creation of CI/CD pipeline which would trigger every time any new changes to code are pushed to Git Hub and would be automatically deployed on Google Cloud. This would help the website to get updated with new code changes without undergoing any downtime.

3. User Manual

CI/CD Pipeline has been built for the Redback Website frontend on Goggle Cloud Platform. The pipeline is configured to be triggered every time new code was pushed into the minor/cloud branch of the GitHub repository. Once that happens, the pipeline:

- Builds the Docker image
- Pushes the built Docker image into Google Cloud Artifact Registry
- Deploy the Docker image on Google Kubernetes Engine

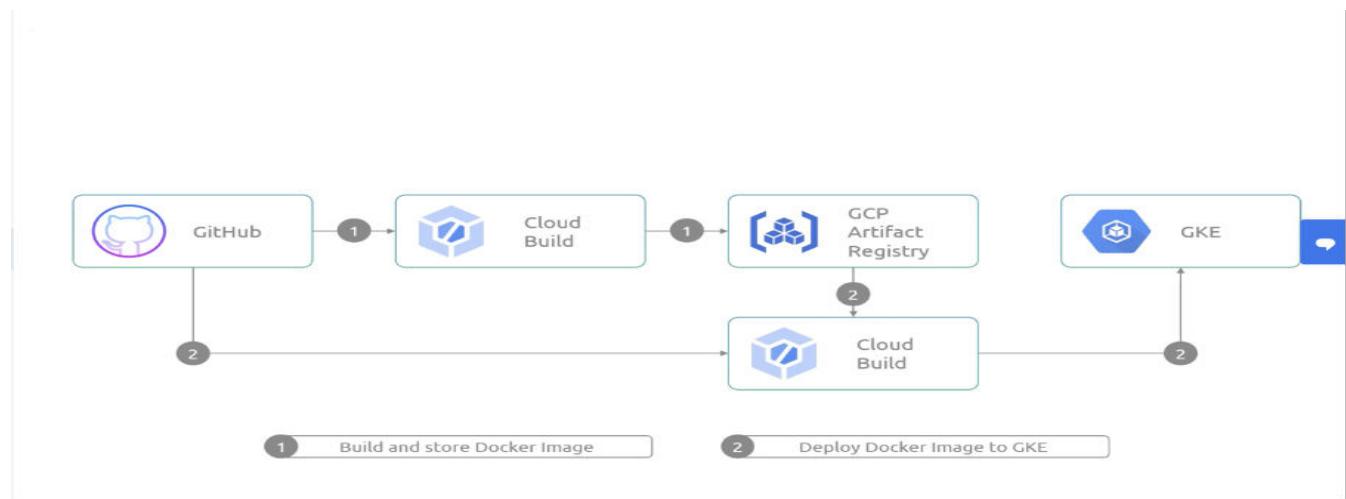
4. Completed Deliverables

CI/CD Pipeline is created for the redback website frontend.

Configuration files for deployment are stored on Git Hub.

Services such as Cloud Build, Artifact Registry and Google Kubernetes Engine are provisioned on GCP.

The architecture diagram for the entire process is:



Configuring Cloud Build Pipeline:

- The first step is responsible for building and tagging the Docker image of our application
- The second step is responsible for pushing the Docker image built on the step one to Google Artifact Registry
- The third step is responsible for deploying the Docker image on Google Kubernetes Engine

```

steps:
- name: "gcr.io/cloud-builders/docker"
  args: ["build","-t","gcr.io/$PROJECT_ID/website-frontend","."]
- name: "gcr.io/cloud-builders/docker"
  args: ["push","gcr.io/$PROJECT_ID/website-frontend"]
- name: "gcr.io/cloud-builders/gke-deploy"
  args:
    - run
    - --filename=gke.yaml
    - --image=gcr.io/$PROJECT_ID/website-frontend
    - --location=us-central1
    - --cluster=website-frontend
    - --namespace=website-frontend-test

```

Create cloud build:

Latest Build	Duration	Trigger description	Source	Commit
5/5/23, 9:52 AM	00:02:37	This is the trigger for redback website	Arjodh Singh/website-frontend	9044d11

Build History: [Latest](#) [View all](#)

Average Duration: 00:02:47

Pass - Fail %: 67% + 33%

Connect with your GitHub Repository:

The screenshot shows the Cloud Build Repositories (2nd gen) interface. At the top, there are tabs for '1ST GEN', '2ND GEN' (which is selected), and 'PREVIEW'. A prominent message box titled 'Introducing Cloud Build repositories (2nd gen)' contains text about the second generation of Cloud Build repositories, mentioning better management of connections between Cloud Build and third-party source code providers. Below the message box, there is a 'VIEW REPOSITORIES (2ND GEN)' button and a 'LEARN MORE' link. A dropdown menu for 'Region' is set to 'us-central1'. Under 'Host connections', there is a table with columns 'Name', 'Hostname', and 'Host connection', showing 'No rows to display'. Below this, there is a section for 'Repositories' with a 'CONNECT REPOSITORY' button and a table for connecting repositories to Cloud Build, also showing 'No rows to display'.

Setting up the Cloud Build Trigger: Create Trigger on your branch minor/cloudbuild:

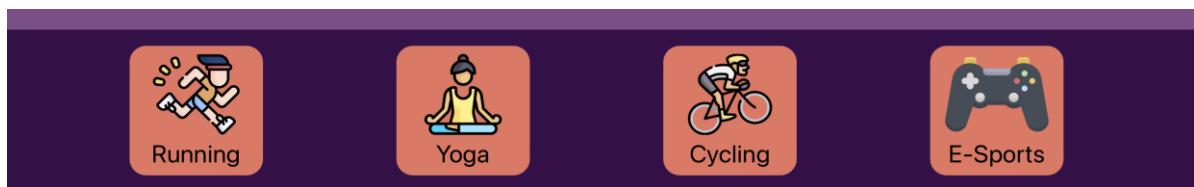
The screenshot shows the 'Edit trigger' configuration page. At the top, there are buttons for 'Edit trigger', 'DISABLE', and 'DELETE'. The 'Source' field is set to 'Arijodh-Singh/website-frontend'. Below it, the 'Name' field is set to 'website-frontend', with a note that it must be unique within the project's region. The 'Region' is set to 'us-central1 (Iowa)'. The 'Description' field contains the text 'This is the trigger for redback website'. The 'Tags' field is empty. In the 'Event' section, the 'Repository event that invokes trigger' is set to 'Push to a branch' (radio button selected). Other options include 'Push new tag', 'Pull request' (disabled), 'Manual invocation', 'Pub/Sub message', and 'Webhook event'. There is also a note stating 'Not available for Cloud Source Repositories' for the 'Pull request' option.

Create Google Kubernetes Cluster:

Make any small change in the code files and push changes to branch. This push will trigger the pipeline and all the steps are executed sequentially and new changes are deployed on Kubernetes cluster.

Let's say you change the code for Redback Operations Testing Version to Redback Operations:

Before:



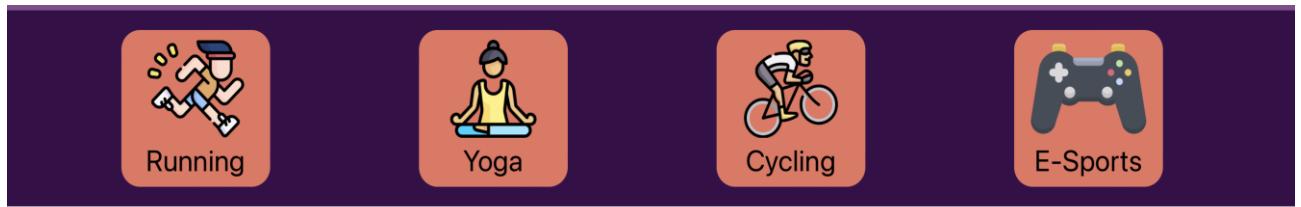
Welcome to Redback Operations Testing Version

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

```
Article.jsx – website-frontend
src > app > components > home > Article.jsx > Article
1 import React from "react";
2 import "./HomeStyles.css"
3 import logo from "./img/Logo.png"
4
5 export default function Article() {
6   return (
7     <div className="background">
8       <div className="redback-banner">
9         <img className="home-logo" src={logo}/>
10        <div className="info">
11          <h3>Welcome to Redback Operations</h3>
12          <p>Redback Operations builds cutting-edge technologies for connected health,
13             fitness and sport to enable safe smart exercise. It is focused on providing
14             a community-driven exercise and well-being gaming experience with competitive elements.</p>
15        </div>
16      </div>
17    </div>
18  );
19}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
(base) arjodh_singh@Arjodhs-MacBook-Air website-frontend %
```

After:



Welcome to Redback Operations

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

Check build history for build summary:

Build history		STOP STREAMING BUILDS						LEARN	
	Status	Build	Source	Ref	Commit	Trigger Name	Created	Duration	⋮
Filter Enter property name or value									
<input type="checkbox"/>	✓	21cd326d	Arijodh-Singh/website-frontend	minor/cloudbuild	9044d11	website-frontend	5/5/23, 9:52 AM	2 min 37 sec	⋮
<input type="checkbox"/>	✓	47999d85	Arijodh-Singh/website-frontend	minor/cloudbuild	6ff8232	website-frontend	5/4/23, 1:35 PM	3 min 6 sec	⋮
<input type="checkbox"/>	✓	a79d5364	Arijodh-Singh/website-frontend	minor/cloudbuild	3a33beb	website-frontend	5/4/23, 12:27 PM	3 min 3 sec	⋮
<input type="checkbox"/>	✓	19f5a9ac	Arijodh-Singh/website-frontend	minor/cloudbuild	e92dab5	website-frontend	5/3/23, 8:22 PM	2 min 58 sec	⋮
<input type="checkbox"/>	✓	6a8024d2	Arijodh-Singh/website-frontend	minor/cloudbuild	a93d652	website-frontend	5/1/23, 10:14 PM	2 min 54 sec	⋮
<input type="checkbox"/>	✓	6c885cbb	Arijodh-Singh/website-frontend	minor/cloudbuild	5ab18aa	website-frontend	4/29/23, 10:43 PM	2 min 49 sec	⋮
<input type="checkbox"/>	✓	92a70005	Arijodh-Singh/website-frontend	minor/cloudbuild	ba0e342	website-frontend	4/29/23, 10:18 PM	2 min 28 sec	⋮
<input type="checkbox"/>	✓	81faef1b	Arijodh-Singh/website-frontend	minor/cloudbuild	e9aaeff	website-frontend	4/28/23, 9:30 PM	2 min 55 sec	⋮
<input type="checkbox"/>	✓	cb6e2c7a	Arijodh-Singh/website-frontend	minor/cloudbuild	1a3e48d	website-frontend	4/28/23, 8:58 PM	2 min 53 sec	⋮
<input type="checkbox"/>	✓	529bf581	Arijodh-Singh/website-frontend	minor/cloudbuild	00a097c	website-frontend	4/28/23, 8:51 PM	3 min 4 sec	⋮
<input type="checkbox"/>	✓	53e14cc3	Arijodh-Singh/website-frontend	minor/cloudbuild	324e5de	website-frontend	4/28/23, 8:30 PM	6 min 32 sec	⋮
<input type="checkbox"/>	⌚	c3432761	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:16 PM	2 min 33 sec	⋮
<input type="checkbox"/>	⌚	f231da13	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:02 PM	2 min 14 sec	⋮
<input type="checkbox"/>	⌚	d76dcfbb	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 10:07 AM	2 min 19 sec	⋮
<input type="checkbox"/>	⌚	0bbfb6ef	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:33 AM	1 min 51 sec	⋮
<input type="checkbox"/>	⌚	a1ce33fe	Arijodh-Singh/website-frontend	minor/cloudbuild	6ca0a4	website-frontend	4/28/23, 1:17 AM	1 min 44 sec	⋮
<input type="checkbox"/>	⌚	454f79fc	Arijodh-Singh/website-frontend	minor/cloudbuild	f1add0c	website-frontend	4/28/23, 12:55 AM	2 min 8 sec	⋮
<input type="checkbox"/>	⌚	3b6ffbf0	Arijodh-Singh/website-frontend	minor/cloudbuild	48d4aaf	website-frontend	4/28/23, 12:51 AM	-	⋮
<input type="checkbox"/>	⌚	3a1528ca	Arijodh-Singh/website-frontend	minor/cloudbuild	2a334db	website-frontend	4/28/23, 12:48 AM	-	⋮
<input type="checkbox"/>	✓	8f1e59c0	Arijodh-Singh/website-frontend	minor/cloudbuild	4225981	website-frontend	4/27/23, 11:47 PM	1 min 59 sec	⋮
<input type="checkbox"/>	✓	218b26ec	Arijodh-Singh/website-frontend	minor/cloudbuild	71589f3	website-frontend	4/27/23, 11:39 PM	2 min 1 sec	⋮

Rows per page: 50 ▾ 1 – 21 of 21 < >

Build details | REBUILD | COPY URL | LEARN

Successful: 21cd326d

Started on May 5, 2023, 9:52:02 AM

Trigger: website-frontend | Source: Arjodh-Singh/website-frontend | Branch: minor/cloudbuild | Commit: 9044611

Steps	Duration	BUILD LOG	EXECUTION DETAILS	BUILD ARTIFACTS
Build Summary 3 Steps	0:02:37	<input type="checkbox"/> Wrap lines <input type="checkbox"/> Show newest entries first <pre> 1 starting build "21cd326d-6d9f-4ce9-bd4c-07a7f95e1a7a" 2 3 FETCHSOURCE 4 hint: Using 'master' as the name for the initial branch. This default branch name 5 hint: is subject to change. To configure the initial branch name to use in all 6 hint: of your new repositories, which will suppress this warning, call: 7 hint: 8 hint: git config --global init.defaultBranch <name> 9 hint: 10 hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and 11 hint: 'development'. The just-created branch can be renamed via this command: 12 hint: 13 hint: git branch -m <name> 14 Initialized empty Git repository in /workspace/.git/ 15 From https://github.com/Arjodh-Singh/website-frontend 16 * branch 90446116f75a1cc653926adcc0d5590dc098b892e8 > FETCH_HEAD 17 HEAD is now at 9044611 demo version 2.2 18 BUILD 19 Starting Step #0 20 Step #0: Already have image (with digest): gcr.io/cloud-builders/docker 21 Step #0: Sending build context to Docker daemon 31.86MB 22 23 Step #0: Step 1/6 : FROM node:12.18.1 24 Step #0: 12.18.1: Pulling from library/node 25 Step #0: 81fc19181915: Pulling fs layer 26 Step #0: ec449ec6a23d1: Pulling fs layer 27 Step #0: 828510924538: Pulling fs layer 28 Step #0: a8f55c4fcce0: Pulling fs layer 29 Step #0: 33699067df21e: Pulling fs layer 30 Step #0: 923785ffa8f8: Pulling fs layer 31 Step #0: ffa4fe08a10b: Pulling fs layer 32 Step #0: 7f3e9e92e48c2: Pulling fs layer </pre>		EXPAND VIEW RAW

All the configuration files for cloud build and deployment are saved at:
<https://github.com/Arjodh-Singh/website-frontend/tree/minor/cloudbuild>

External end points for website deployed on GKE:

<http://34.67.157.179>

Services & Ingress | REFRESH | CREATE INGRESS | DELETE | HELP ASSISTANT | LEARN

Cluster: Namespace: RESET SAVE

SERVICES **INGRESS**

Services are sets of Pods with a network endpoint that can be used for discovery and load balancing. Ingresses are collections of rules for routing external HTTP(S) traffic to Services.

Filter Is system object: False Filter services and ingresses

Name	Status	Type	Endpoints	Pods	Namespace	Clusters	Pods Running	Pods Desired
gcp-website-frontend-gke-service	OK	External load balancer	34.67.157.179:80	1/1	website-frontend-test	website-frontend	1	1

Created documentation to show how to setup a Jenkins server on GCP.
[How to Setup a Jenkins Server.docx](#)

Updated the Trello board.

Trello Board link: <https://trello.com/b/SvbARmmY/devops>

Key Achievements:

Name	Level	Achievements	Role
Arjodh Singh	Junior	<ul style="list-style-type: none"> Upskilled on DEVOPS stack and deployed Jenkins on VM on private and tested it for integration and deployment Conducted regular meetings and updated all the documents related to project Created end-end pipeline for redback website front end and deployed on GKE 	Team Lead
Astifo Paul	Junior	<ul style="list-style-type: none"> Upskilling on Jenkins, research and testing done to deploy it on VM. Also, research of CICD pipelines, Kubernetes engine, etc to continue work in DevOps. Organization and attendance of meetings to let all members know of the tasks/deadlines that are due. 	Team Member
Adhish Anand	Junior	<ul style="list-style-type: none"> Upskilled on Google Cloud Platform, Docker, Flutter. Also researched on Jenkins and its deployment. Deployed Jenkins server on GCP vm instance and created a documentation on the same. Tested the working on Jenkins server using a sample job. Created docker image for the flutter application on the local along with its documentation 	Team Member
Sam TitusMenacheer y	Junior	<ul style="list-style-type: none"> Created a google cloud project. Created VM in google cloud for running Jenkins. Installed Jenkins in VM. Configured Jenkins into VM external link. Downloaded the Jenkins Plugins. Researching on building a Docker image of Git hub application from the git repository. and push the image into Google cloud Container Registry Preparing for the next step by researching Kubernetes cluster technology to host the application 	Team Member
Steve Lee	Senior	<ul style="list-style-type: none"> Tested the working on jenkins server using a sample job. 	Team Member

	<ul style="list-style-type: none"> <i>Set up the yaml file for installing the monitoring tool (grafana) on the linux server so that it can be applied immediately after installing kubernetes.</i> <i>Pre-preparation for Kubernetes installation completed.</i> 	
--	--	--

5. Roadmap

The next trimester we will aim to complete the deployment of backend of Redback website.

6. Open Issues

The main issue that we encountered this trimester was limited privileges for deployment of Kubernetes cluster on Google Cloud Platform.

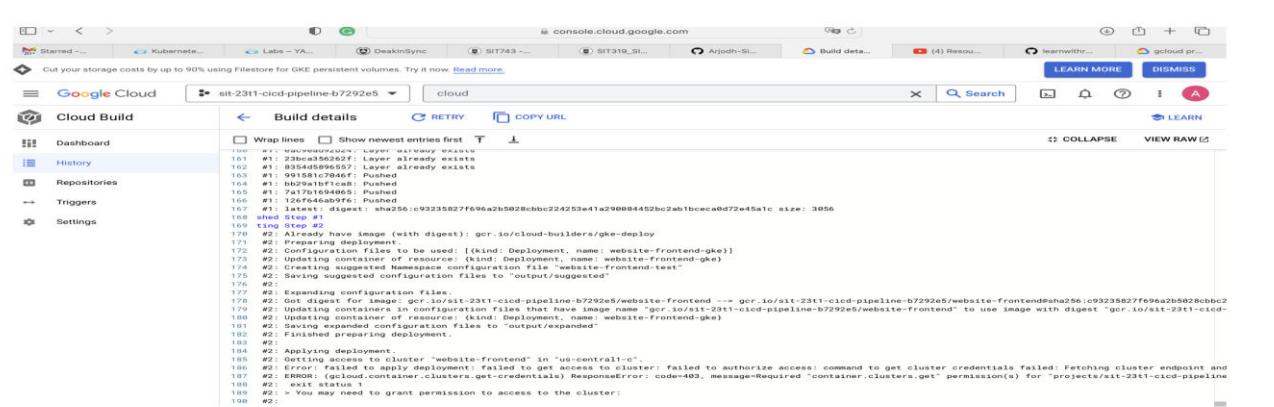
Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

Friday, 28 April 2023 at 1:19 PM

From: ARJODH ARJODH SINGH <s221530673@deakin.edu.au>
 To: @_SIT Technical Team; Cc: Kevin Lee

Subject: Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

Hi Team,
 I hope you are doing fine.
 I am getting stuck with the below error when trying to deploy containers on GKE. It's related to permission for the service account. Could you please look into this?



The screenshot shows the Google Cloud Build interface with a log of deployment steps. The log includes:

- Step 1: Fetching image with digest: gcr.io/cloud-builders/gke-deploy
- Step 2: Preparing deployment.
- Step 3: Configuration file to be used: {kind: Deployment, name: website-frontend-gke}
- Step 4: Updating configuration files that have image name "gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend-test"
- Step 5: Creating suggested Namespace configuration file "website-frontend-test"
- Step 6: Saving expanded configuration files to "output/suggested"
- Step 7: Expanding configuration files
- Step 8: Got digest for image: gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend --> gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend@sha256:c93235827f696a2b5028ccbc224253e41a298084452bc2ab1bceca0d72e45a1c size: 3056
- Step 9: Saving expanded configuration files to "output/expanded"
- Step 10: Finished preparing deployment.
- Step 11: Applying deployment.
- Step 12: Creating deployment in cluster "website-frontend" in "us-central1-c"
- Step 13: Error: Failed to apply deployment: Failed to get access to cluster: failed to authorize access: command to get cluster credentials failed: Fetching cluster endpoint and token failed: (gcloud.container.clusters.get-credentials) ResponseError: code=403, message=Required "container.clusters.get" permission(s) for "projects/sit-23t1-cicd-pipeline" are missing.
- Step 14: exit status 1
- Step 15: You may need to grant permission to access to the cluster:

But that was resolved after working with Technical Team.

Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

😊 ⏪ ⏴ ⏵ ⏶

AA

✉ ARJODH ARJODH SINGH <s221530673@deakin.edu.au>
To: ✉ _SIT Technical Team; Cc: ● Kevin Lee ▾

Friday, 28 April 2023 at 1:19 PM

Good morning Arjodh,

I have now enabled the **Kubernetes Engine Developer** role for the 671060301813@cloudbuild.gserviceaccount.com service account. Please re-test and let me know if this resolves the issue.

If problems persist, can you re-send any errors / warnings in full? (your screenshot below is a bit cut-off in places)

Best of luck!

Service account permissions

Cloud Build executes builds with the permissions granted to the [Cloud Build service account](#) tied to the project. You can grant additional roles to the service account to allow Cloud Build to interact with other GCP services.

Service account email: 671060301813@cloudbuild.gserviceaccount.com

GCP Service	Role ⓘ	Status
Cloud Functions	Cloud Functions Developer	● DISABLED ▾
Cloud Run	Cloud Run Admin	● DISABLED ▾
App Engine	App Engine Admin	● DISABLED ▾
Kubernetes Engine	Kubernetes Engine Developer	● ENABLED ▾
Compute Engine	Compute Instance Admin (v1)	● DISABLED ▾
Firebase	Firebase Admin	● DISABLED ▾
Cloud KMS	Cloud KMS CryptoKey Decrypter	● DISABLED ▾
Secret Manager	Secret Manager Secret Accessor	● DISABLED ▾
Service Accounts	Service Account User	● DISABLED ▾
Cloud Build	Cloud Build WorkerPool User	● DISABLED ▾

Roles not listed here can be managed in the [IAM section](#)

Regards,

Scott Blackburn
Senior Technical Officer, Cloud Computing & AI
School of Information Technology

7. Lessons Learned

The most important lesson was to have a fixed schedule for the meetings and that would be agreed by everyone. This would allow each team member to come into the meeting and speak his mind. If he is not technical strong enough to contribute, he must listen carefully about the progress of the project. This would enable him to give presentations or create documents for the team.

8. Product Development Life Cycle

8.1. New Tasks

The weekly meeting was done at 10 pm on Sunday and all the tasks were planned for next week and introspection was done on previous tasks. The tasks were created in Trello.

Trello Board link: <https://trello.com/b/SvbARmmY/devops>

8.2. Definition of Done

The task was considered done if it was able to get its objective with proper code and documentation.

8.3. Task Review

Team leader was used to review the task of teammates by running the code on its machine and giving the required feedback to assignee.

8.4. Testing

Let's say you change the code for Redback Operations Testing Version to Redback Operations:

Before:



Welcome to Redback Operations Testing Version

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.



```

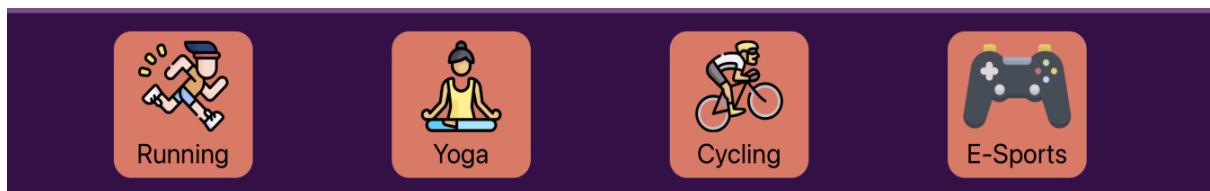
src > app > components > home > Article.jsx
1 import React from "react";
2 import "./HomeStyles.css"
3 import logo from "./img/Logo.png"
4
5 export default function Article() {
6   return (
7     <div className="background">
8       <div className="redback-banner">
9         <img className="home-logo" src={logo}/>
10        <div className="info">
11          <h3>Welcome to Redback Operations</h3>
12          <p>Redback Operations builds cutting-edge technologies for connected health,
13             fitness and sport to enable safe smart exercise. It is focused on providing
14             a community-driven exercise and well-being gaming experience with competitive
15             elements.</p>
16        </div>
17      </div>
18    );
19 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

(base) arjodh_singh@Arjodhs-MacBook-Air website-frontend %

After:



Welcome to Redback Operations

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

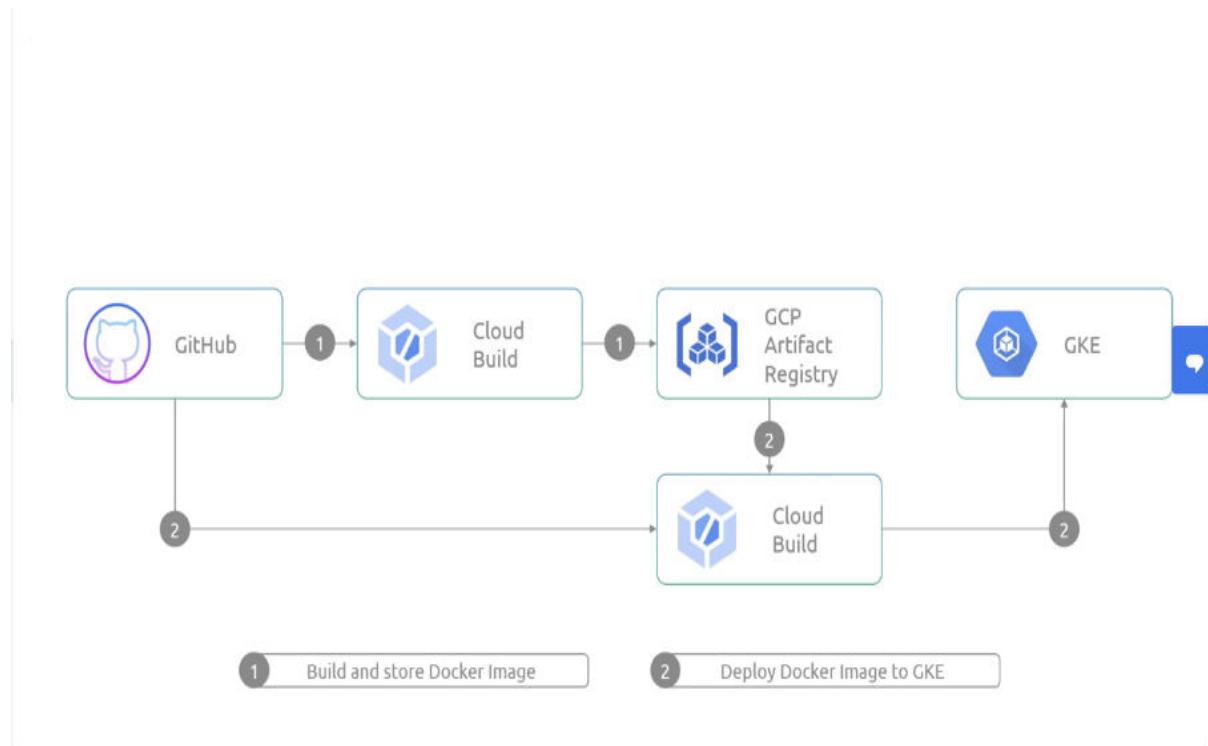
8.5. Branching Strategy

We use an open-source strategy of forking the main repository and then cloning it to your local computer. You should work on each feature in its own branch on your computer and

submit a pull request once it is complete. Upon review, the pull request will be merged into the main repository. This system is in place because it is easy to accidentally create commits with thousands of unnecessary changes, and rolling this back is difficult. If this occurs and you can't fix it easily, you can always back up the few files you did need to change and then delete your local repository, then clone your fork again and put your changes back in to give you a clean working copy again. Reach out to your team leader if you need help with this. As a result, only the team leaders will have direct access to the GitHub repository, others will be able to fork it and submit pull requests but not commit directly. The team leaders should also try to ensure that the other team leader reviews their code rather than merging their own commits without review

9. Product Architecture

9.1. UML Diagram



9.2. Tech Stack

Git Hub:

GitHub is an online software development platform. It's used for storing, tracking, and collaborating on software projects.

Google Cloud Build:

Cloud Build is a service that executes your builds on Google Cloud. Cloud Build can import source code from a variety of repositories or cloud storage spaces, execute a build to your specifications, and produce artifacts such as Docker containers or Java archives.

Google Artifact Registry:

Artifact Registry provides a single location for storing and managing your packages and Docker container images. You can: Integrate Artifact Registry with Google Cloud CI/CD services or your existing CI/CD tools. Store artifacts from Cloud Build.

Google Kubernetes Cluster:

Google Kubernetes Engine is a powerful cluster manager and orchestration system for running your Docker containers. It's built on the open-source Kubernetes system, giving you the flexibility to take advantage of on-premises, hybrid, or public cloud infrastructure.

10. Source Code

All the configuration files for cloud build and deployment are saved at:

<https://github.com/Arjodh-Singh/website-frontend/tree/minor/cloudbuild>

11. Login Credentials

N/A

12. Appendices

https://video.deakin.edu.au/media/t/1_yk64he12

Project Handover Document

Company ----Redback Operations

Project -----Deployment of Redback website on GCP
(Google Cloud Platform)

Trimester 2, 2022

Table of Contents

1.	Project Information	3
1.1.	<i>Company Acting Director.....</i>	3
1.2.	<i>Project Team.....</i>	3
2.	Project Overview	3
3.	User Manual	3
4.	Completed Deliverables.....	4
5.	Roadmap	12
6.	Open Issues	12
7.	Lessons Learned	13
8.	Product Development Life Cycle	13
8.1.	<i>New Tasks.....</i>	13
8.2.	<i>Definition of Done.....</i>	13
8.3.	<i>Task Review</i>	14
8.4.	<i>Testing</i>	14
8.5.	<i>Branching Strategy</i>	15
9.	Product Architecture	16
9.1.	<i>UML Diagram</i>	16
9.2.	<i>Tech Stack.....</i>	16
10.	Source Code.....	17
11.	Login Credentials	17
12.	Other Relevant Information.....	Error! Bookmark not defined.
13.	Appendices	17

1. Project Information

1.1. Company Acting Director

Kevin Lee

Director

kevin.lee@deakin.edu.au

1.2. Project Team

Deployment of Redback website on GCP (Google Cloud Platform)

Redback Operations

Name	Level	Role
<i>Arjodh Singh</i>	<i>Junior</i>	<i>Team Lead</i>
<i>Astifo Paul</i>	<i>Junior</i>	<i>Team Member</i>
<i>Adhish Anand</i>	<i>Junior</i>	<i>Team Member</i>
<i>Sam TitusMenacheery</i>	<i>Junior</i>	<i>Team Member</i>
<i>Steve Lee</i>	<i>Senior</i>	<i>Team Member</i>

2. Project Overview

The main objective of the project was the deployment of Redback website on Google Cloud Platform. It entails the creation of CI/CD pipeline which would trigger every time any new changes to code are pushed to Git Hub and would be automatically deployed on Google Cloud. This would help the website to get updated with new code changes without undergoing any downtime.

3. User Manual

CI/CD Pipeline has been built for the Redback Website frontend on Goggle Cloud Platform. The pipeline is configured to be triggered every time new code was pushed into the minor/cloud branch of the GitHub repository. Once that happens, the pipeline:

- Builds the Docker image
- Pushes the built Docker image into Google Cloud Artifact Registry
- Deploy the Docker image on Google Kubernetes Engine

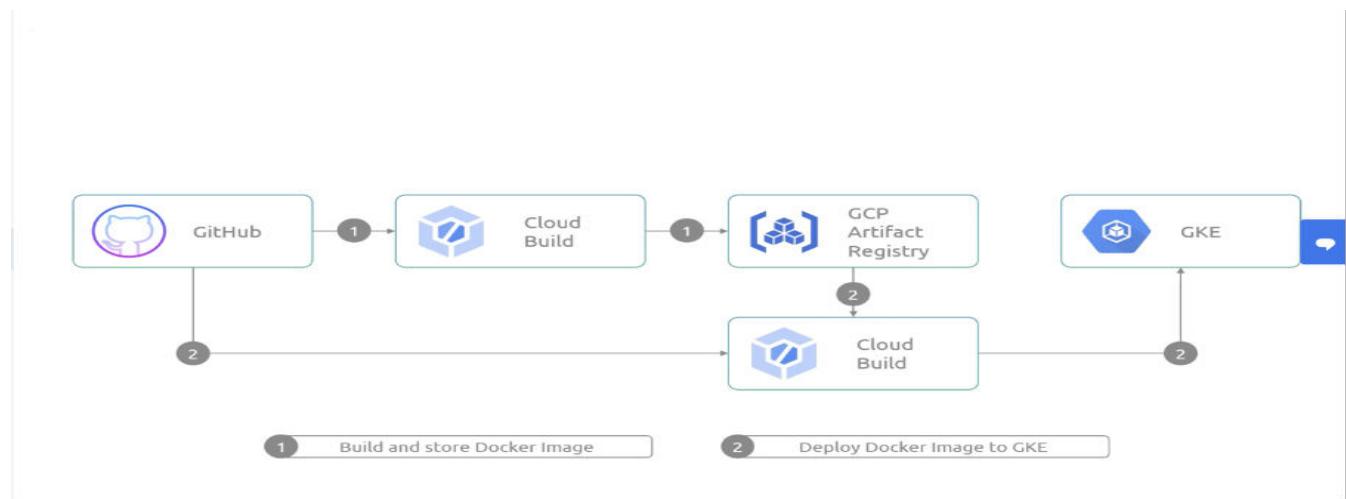
4. Completed Deliverables

CI/CD Pipeline is created for the redback website frontend.

Configuration files for deployment are stored on Git Hub.

Services such as Cloud Build, Artifact Registry and Google Kubernetes Engine are provisioned on GCP.

The architecture diagram for the entire process is:



Configuring Cloud Build Pipeline:

- The first step is responsible for building and tagging the Docker image of our application
- The second step is responsible for pushing the Docker image built on the step one to Google Artifact Registry
- The third step is responsible for deploying the Docker image on Google Kubernetes Engine

```

steps:
- name: "gcr.io/cloud-builders/docker"
  args: ["build","-t","gcr.io/$PROJECT_ID/website-frontend","."]
- name: "gcr.io/cloud-builders/docker"
  args: ["push","gcr.io/$PROJECT_ID/website-frontend"]
- name: "gcr.io/cloud-builders/gke-deploy"
  args:
    - run
    - --filename=gke.yaml
    - --image=gcr.io/$PROJECT_ID/website-frontend
    - --location=us-central1
    - --cluster=website-frontend
    - --namespace=website-frontend-test

```

Create cloud build:

Latest Build	Duration	Trigger description	Source	Commit
5/5/23, 9:52 AM	00:02:37	This is the trigger for redback website	Arjodh Singh/website-frontend	9044d11

Build History: Latest | [View all](#)

Average Duration: 00:02:47

Pass - Fail %: 67% + 33%

Connect with your GitHub Repository:

The screenshot shows the Cloud Build Repositories (2nd gen) interface. At the top, there are tabs for '1ST GEN', '2ND GEN' (which is selected), and 'PREVIEW'. A prominent message box titled 'Introducing Cloud Build repositories (2nd gen)' contains text about the second generation of Cloud Build repositories, mentioning better management of connections between Cloud Build and third-party source code providers. Below the message box, there is a 'VIEW REPOSITORIES (2ND GEN)' button and a 'LEARN MORE' link. A dropdown menu for 'Region' is set to 'us-central1'. Under 'Host connections', there is a table with columns 'Name', 'Hostname', and 'Host connection', showing 'No rows to display'. Below this, there is a section for 'Repositories' with a 'CONNECT REPOSITORY' button and a table showing a single entry for 'Aroodh.Singh/website-frontend' connected to 'Cloud Build GitHub App'.

Setting up the Cloud Build Trigger:

Create Trigger on your branch minor/cloudbuild:

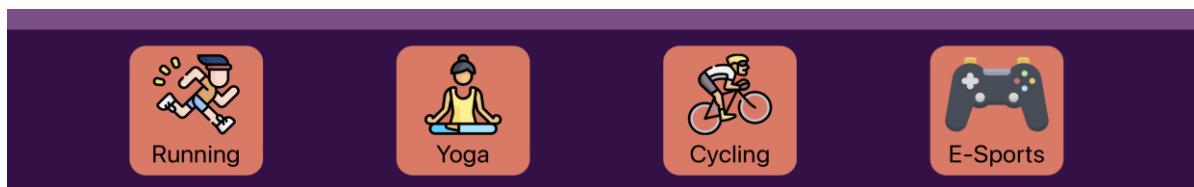
The screenshot shows the 'Edit trigger' configuration page. At the top, there are buttons for 'Edit trigger', 'DISABLE', and 'DELETE'. The 'Source' field is set to 'Aroodh-Singh/website-frontend'. Below the source, there is a 'Name*' field containing 'website-frontend', a note that it must be unique within the project's region, and a 'Region' dropdown set to 'us-central1 (Iowa)'. There is also a 'Description' field with the text 'This is the trigger for redback website'. A 'Tags' field is present. The 'Event' section includes a note about repository events and three options: 'Push to a branch' (selected), 'Push new tag', and 'Pull request' (disabled). It also lists 'Or in response to' options: 'Manual invocation', 'Pub/Sub message', and 'Webhook event'.

Create Google Kubernetes Cluster:

Make any small change in the code files and push changes to branch. This push will trigger the pipeline and all the steps are executed sequentially and new changes are deployed on Kubernetes cluster.

Let's say you change the code for Redback Operations Testing Version to Redback Operations:

Before:



Welcome to Redback Operations Testing Version

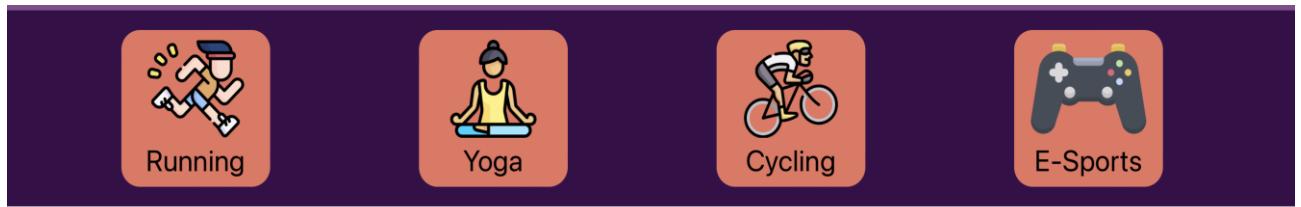
Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

A screenshot of the Visual Studio Code interface. The title bar says "Article.jsx – website-frontend". The left sidebar shows a project structure under "WEBSITE-FRONTEND" with files like ".vs", "website-frontend", "slnx.sqlite", "VSWorkspaceState...", ".vscode", "launch.json", "public", "index.html", "logo192.png", "logo512.png", "manifest.json", "robots.txt", "src", ".vs", "app", "components", "aboutUs", "contactUs", "home", and "img". The main editor area displays the content of "Article.jsx":

```
1 import React from "react";
2 import "./HomeStyles.css"
3 import logo from "./img/Logo.png"
4
5 export default function Article() {
6     return (
7         <div className="background">
8             <div className="redback-banner">
9                 <img className="home-logo" src={logo}/>
10                <div className="info">
11                    <h3>Welcome to Redback Operations</h3>
12                    <p>Redback Operations builds cutting-edge technologies for connected health,
13                        fitness and sport to enable safe smart exercise. It is focused on providing
14                        a community-driven exercise and well-being gaming experience with competitive elements.</p>
15                </div>
16            </div>
17        </div>
18    );
19 }
```

The status bar at the bottom shows "PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL" and "(base) arjodh_singh@Arjodhs-MacBook-Air website-frontend %".

After:



Welcome to Redback Operations

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

Check build history for build summary:

Build history		STOP STREAMING BUILDS						LEARN	
	Status	Build	Source	Ref	Commit	Trigger Name	Created	Duration	⋮
Filter Enter property name or value									
<input type="checkbox"/>	✓	21cd326d	Arijodh-Singh/website-frontend	minor/cloudbuild	9044d11	website-frontend	5/5/23, 9:52 AM	2 min 37 sec	⋮
<input type="checkbox"/>	✓	47999d85	Arijodh-Singh/website-frontend	minor/cloudbuild	6ff8232	website-frontend	5/4/23, 1:35 PM	3 min 6 sec	⋮
<input type="checkbox"/>	✓	a79d5364	Arijodh-Singh/website-frontend	minor/cloudbuild	3a33beb	website-frontend	5/4/23, 12:27 PM	3 min 3 sec	⋮
<input type="checkbox"/>	✓	19f5a9ac	Arijodh-Singh/website-frontend	minor/cloudbuild	e92dab5	website-frontend	5/3/23, 8:22 PM	2 min 58 sec	⋮
<input type="checkbox"/>	✓	6a8024d2	Arijodh-Singh/website-frontend	minor/cloudbuild	a93d652	website-frontend	5/1/23, 10:14 PM	2 min 54 sec	⋮
<input type="checkbox"/>	✓	6c885cbb	Arijodh-Singh/website-frontend	minor/cloudbuild	5ab18aa	website-frontend	4/29/23, 10:43 PM	2 min 49 sec	⋮
<input type="checkbox"/>	✓	92a70005	Arijodh-Singh/website-frontend	minor/cloudbuild	ba0e342	website-frontend	4/29/23, 10:18 PM	2 min 28 sec	⋮
<input type="checkbox"/>	✓	81faef1b	Arijodh-Singh/website-frontend	minor/cloudbuild	e9aaeff	website-frontend	4/28/23, 9:30 PM	2 min 55 sec	⋮
<input type="checkbox"/>	✓	cb6e2c7a	Arijodh-Singh/website-frontend	minor/cloudbuild	1a3e48d	website-frontend	4/28/23, 8:58 PM	2 min 53 sec	⋮
<input type="checkbox"/>	✓	529bf581	Arijodh-Singh/website-frontend	minor/cloudbuild	00a097c	website-frontend	4/28/23, 8:51 PM	3 min 4 sec	⋮
<input type="checkbox"/>	✓	53e14cc3	Arijodh-Singh/website-frontend	minor/cloudbuild	324e5de	website-frontend	4/28/23, 8:30 PM	6 min 32 sec	⋮
<input type="checkbox"/>	⌚	c3432761	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:16 PM	2 min 33 sec	⋮
<input type="checkbox"/>	⌚	f231da13	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:02 PM	2 min 14 sec	⋮
<input type="checkbox"/>	⌚	d76dcfbb	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 10:07 AM	2 min 19 sec	⋮
<input type="checkbox"/>	⌚	0bbfb6ef	Arijodh-Singh/website-frontend	minor/cloudbuild	75646cf	website-frontend	4/28/23, 1:33 AM	1 min 51 sec	⋮
<input type="checkbox"/>	⌚	a1ce33fe	Arijodh-Singh/website-frontend	minor/cloudbuild	6ca0a4	website-frontend	4/28/23, 1:17 AM	1 min 44 sec	⋮
<input type="checkbox"/>	⌚	454f79fc	Arijodh-Singh/website-frontend	minor/cloudbuild	f1add0c	website-frontend	4/28/23, 12:55 AM	2 min 8 sec	⋮
<input type="checkbox"/>	⌚	3b6ffbf0	Arijodh-Singh/website-frontend	minor/cloudbuild	48d4aaf	website-frontend	4/28/23, 12:51 AM	-	⋮
<input type="checkbox"/>	⌚	3a1528ca	Arijodh-Singh/website-frontend	minor/cloudbuild	2a334db	website-frontend	4/28/23, 12:48 AM	-	⋮
<input type="checkbox"/>	✓	8f1e59c0	Arijodh-Singh/website-frontend	minor/cloudbuild	4225981	website-frontend	4/27/23, 11:47 PM	1 min 59 sec	⋮
<input type="checkbox"/>	✓	218b26ec	Arijodh-Singh/website-frontend	minor/cloudbuild	71589f3	website-frontend	4/27/23, 11:39 PM	2 min 1 sec	⋮

Rows per page: 50 ▾ 1 – 21 of 21 < >

Build details | REBUILD | COPY URL | LEARN

Successful: 21cd326d

Started on May 5, 2023, 9:52:02 AM

Trigger: website-frontend | Source: Arjodh-Singh/website-frontend | Branch: minor/cloudbuild | Commit: 9044611

Steps	Duration	BUILD LOG	EXECUTION DETAILS	BUILD ARTIFACTS
Build Summary 3 Steps	0:02:37	<input type="checkbox"/> Wrap lines <input type="checkbox"/> Show newest entries first <pre> 1 starting build "21cd326d-6d9f-4ce9-bd4c-07a7f95e1a7a" 2 3 FETCHSOURCE 4 hint: Using 'master' as the name for the initial branch. This default branch name 5 hint: is subject to change. To configure the initial branch name to use in all 6 hint: of your new repositories, which will suppress this warning, call: 7 hint: 8 hint: git config --global init.defaultBranch <name> 9 hint: 10 hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and 11 hint: 'development'. The just-created branch can be renamed via this command: 12 hint: 13 hint: git branch -m <name> 14 Initialized empty Git repository in /workspace/.git/ 15 From https://github.com/Arjodh-Singh/website-frontend 16 * branch 90446116f75a1cc653926adcc0d5590dc098b892e8 > FETCH_HEAD 17 HEAD is now at 9044611 demo version 2.2 18 BUILD 19 Starting Step #0 20 Step #0: Already have image (with digest): gcr.io/cloud-builders/docker 21 Step #0: Sending build context to Docker daemon 31.86MB 22 23 Step #0: Step 1/6 : FROM node:12.18.1 24 Step #0: 12.18.1: Pulling from library/node 25 Step #0: 81fc19181915: Pulling fs layer 26 Step #0: ec449ec6a23d1: Pulling fs layer 27 Step #0: 828510924538: Pulling fs layer 28 Step #0: a8f55c4fcce0: Pulling fs layer 29 Step #0: 33699067df21e: Pulling fs layer 30 Step #0: 923785ffa8f8: Pulling fs layer 31 Step #0: ffa4fe08a10b: Pulling fs layer 32 Step #0: 7f3e9e92e48c2: Pulling fs layer </pre>	EXPAND	VIEW RAW

All the configuration files for cloud build and deployment are saved at:
<https://github.com/Arjodh-Singh/website-frontend/tree/minor/cloudbuild>

External end points for website deployed on GKE:

<http://34.67.157.179>

Services & Ingress | REFRESH | CREATE INGRESS | DELETE | HELP ASSISTANT | LEARN

Cluster: Namespace: RESET SAVE

SERVICES **INGRESS**

Services are sets of Pods with a network endpoint that can be used for discovery and load balancing. Ingresses are collections of rules for routing external HTTP(S) traffic to Services.

Filter Is system object: False Filter services and ingresses

Name	Status	Type	Endpoints	Pods	Namespace	Clusters	Pods Running	Pods Desired
gcp-website-frontend-gke-service	OK	External load balancer	34.67.157.179:80	1/1	website-frontend-test	website-frontend	1	1

Created documentation to show how to setup a Jenkins server on GCP.
[How to Setup a Jenkins Server.docx](#)

Updated the Trello board.

Trello Board link: <https://trello.com/b/SvbARmmY/devops>

Key Achievements:

Name	Level	Achievements	Role
Arjodh Singh	Junior	<ul style="list-style-type: none"> Upskilled on DEVOPS stack and deployed Jenkins on VM on private and tested it for integration and deployment Conducted regular meetings and updated all the documents related to project Created end-end pipeline for redback website front end and deployed on GKE 	Team Lead
Astifo Paul	Junior	<ul style="list-style-type: none"> Upskilling on Jenkins, research and testing done to deploy it on VM. Also, research of CICD pipelines, Kubernetes engine, etc to continue work in DevOps. Organization and attendance of meetings to let all members know of the tasks/deadlines that are due. 	Team Member
Adhish Anand	Junior	<ul style="list-style-type: none"> Upskilled on Google Cloud Platform, Docker, Flutter. Also researched on Jenkins and its deployment. Deployed Jenkins server on GCP vm instance and created a documentation on the same. Tested the working on Jenkins server using a sample job. Created docker image for the flutter application on the local along with its documentation 	Team Member
Sam TitusMenacheer y	Junior	<ul style="list-style-type: none"> Created a google cloud project. Created VM in google cloud for running Jenkins. Installed Jenkins in VM. Configured Jenkins into VM external link. Downloaded the Jenkins Plugins. Researching on building a Docker image of Git hub application from the git repository. and push the image into Google cloud Container Registry Preparing for the next step by researching Kubernetes cluster technology to host the application 	Team Member
Steve Lee	Senior	<ul style="list-style-type: none"> Tested the working on jenkins server using a sample job. 	Team Member

	<ul style="list-style-type: none"> <i>Set up the yaml file for installing the monitoring tool (grafana) on the linux server so that it can be applied immediately after installing kubernetes.</i> <i>Pre-preparation for Kubernetes installation completed.</i> 	
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5. Roadmap

The next trimester we will aim to complete the deployment of backend of Redback website.

6. Open Issues

The main issue that we encountered this trimester was limited privileges for deployment of Kubernetes cluster on Google Cloud Platform.

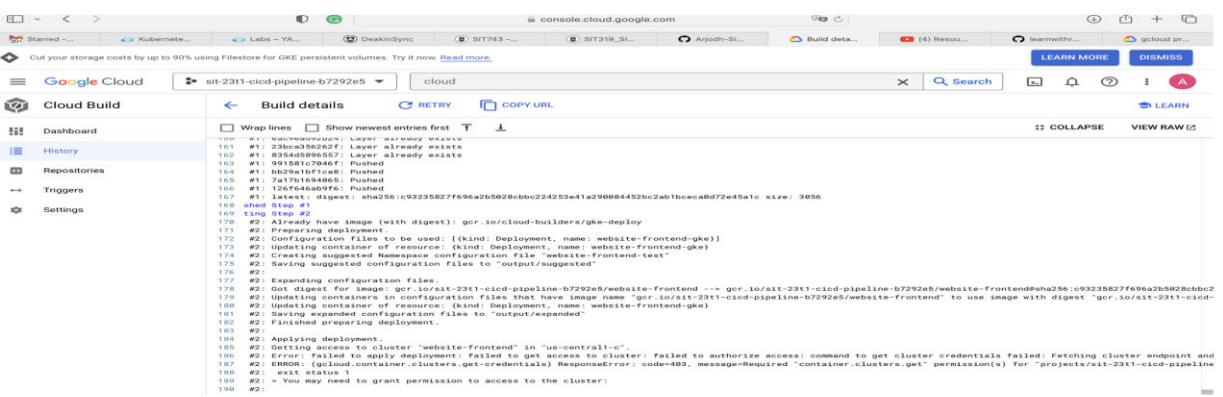
Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

Friday, 28 April 2023 at 1:19 PM

From: ARJODH ARJODH SINGH <s221530673@deakin.edu.au>
 To: @_SIT Technical Team; Cc: Kevin Lee

Subject: Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

Hi Team,
 I hope you are doing fine.
 I am getting stuck with the below error when trying to deploy containers on GKE. It's related to permission for the service account. Could you please look into this?



```

 161 #1: 23baea56e26f: Layer already exists
 162 #1: 89588959595f: Layer already exists
 163 #1: 991581959595: Pushed
 164 #1: bb29a9bf1ca8: Pushed
 165 #1: 126f64ca09fc: Pushed
 166 #1: latest: digest: sha256:c93235827f696a2b5928ccbc224253e41a298084452bc2ab1bceca0d72e45a1c size: 3056
 167 #1: digest:sha256:1
 168
 169 Time Step #2
 170 #2: Preparing to have image (with digest): gcr.io/cloud-builders/gke-deploy
 171 #2: Configuration file to be used: /kind:Deployment, name:website-frontend-gke
 172 #2: Configuration file to be used: /kind:Deployment, name:website-frontend-test
 173 #2: Creating suggested Namespace configuration file "website-frontend-test"
 174 #2: Writing Namespace configuration file to "output/suggested"
 175 #2: Expanding configuration files
 176 #2: Got digest for image: gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend --> gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend@sha256:c93235827f696a2b5928ccbc224253e41a298084452bc2ab1bceca0d72e45a1c
 177 #2: Updating container in configuration files that have image name "gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend" to use image with digest "gcr.io/sit-23t1-cicd-pipeline-b7292e5/website-frontend@sha256:c93235827f696a2b5928ccbc224253e41a298084452bc2ab1bceca0d72e45a1c"
 178 #2: Saving expanded configuration files to "output/expanded"
 179 #2: Finished preparing deployment.
 180
 181 #2: Applying deployment...
 182 #2: Applying deployment to cluster "website-frontend" in "us-central1-c"
 183 #2: Error: Failed to apply deployment: Failed to get access to cluster: failed to authorize access: command to get cluster credentials failed: Fetching cluster endpoint and
 184 #2: Error: failed to get cluster credentials ResponseError: code=403, message=Required "container.clusters.get" permission(s) for "projects/sit-23t1-cicd-pipeline"
 185 #2: exit status 1
 186 #2: You may need to grant permission to access to the cluster:
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Re: FOLLOW UP: Capstone GCP - 2023 T1 - Arjodh Singh - Redback Operations - New Project Request

😊 ⏪ ⏴ ⏵ ⏶

AA

✉ ARJODH ARJODH SINGH <s221530673@deakin.edu.au>
To: ✉ _SIT Technical Team; Cc: ● Kevin Lee ▾

Friday, 28 April 2023 at 1:19 PM

Good morning Arjodh,

I have now enabled the **Kubernetes Engine Developer** role for the 671060301813@cloudbuild.gserviceaccount.com service account. Please re-test and let me know if this resolves the issue.

If problems persist, can you re-send any errors / warnings in full? (your screenshot below is a bit cut-off in places)

Best of luck!

Service account permissions

Cloud Build executes builds with the permissions granted to the [Cloud Build service account](#) tied to the project. You can grant additional roles to the service account to allow Cloud Build to interact with other GCP services.

Service account email: 671060301813@cloudbuild.gserviceaccount.com

GCP Service	Role ⓘ	Status
Cloud Functions	Cloud Functions Developer	● DISABLED ▾
Cloud Run	Cloud Run Admin	● DISABLED ▾
App Engine	App Engine Admin	● DISABLED ▾
Kubernetes Engine	Kubernetes Engine Developer	● ENABLED ▾
Compute Engine	Compute Instance Admin (v1)	● DISABLED ▾
Firebase	Firebase Admin	● DISABLED ▾
Cloud KMS	Cloud KMS CryptoKey Decrypter	● DISABLED ▾
Secret Manager	Secret Manager Secret Accessor	● DISABLED ▾
Service Accounts	Service Account User	● DISABLED ▾
Cloud Build	Cloud Build WorkerPool User	● DISABLED ▾

Roles not listed here can be managed in the [IAM section](#)

Regards,

Scott Blackburn
Senior Technical Officer, Cloud Computing & AI
School of Information Technology

7. Lessons Learned

The most important lesson was to have a fixed schedule for the meetings and that would be agreed by everyone. This would allow each team member to come into the meeting and speak his mind. If he is not technical strong enough to contribute, he must listen carefully about the progress of the project. This would enable him to give presentations or create documents for the team.

8. Product Development Life Cycle

8.1. New Tasks

The weekly meeting was done at 10 pm on Sunday and all the tasks were planned for next week and introspection was done on previous tasks. The tasks were created in Trello.

Trello Board link: <https://trello.com/b/SvbARmmY/devops>

8.2. Definition of Done

The task was considered done if it was able to get its objective with proper code and documentation.

8.3. Task Review

Team leader was used to review the task of teammates by running the code on its machine and giving the required feedback to assignee.

8.4. Testing

Let's say you change the code for Redback Operations Testing Version to Redback Operations:

Before:



Welcome to Redback Operations Testing Version

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

```

src > app > components > home > Article.jsx
1 import React from "react";
2 import "./HomeStyles.css"
3 import logo from "./img/Logo.png"
4
5 export default function Article() {
6   return (
7     <div className="background">
8       <div className="redback-banner">
9         <img className="home-logo" src={logo}/>
10        <div className="info">
11          <h3>Welcome to Redback Operations</h3>
12          <p>Redback Operations builds cutting-edge technologies for connected health,
13             fitness and sport to enable safe smart exercise. It is focused on providing
14             a community-driven exercise and well-being gaming experience with competitive
15             elements.</p>
16        </div>
17      </div>
18    );
19 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

(base) arjodh_singh@Arjodhs-MacBook-Air website-frontend %

After:



Welcome to Redback Operations

Redback Operations builds cutting-edge technologies for connected health, fitness and sport to enable safe smart exercise. It is focused on providing a community-driven exercise and well-being gaming experience with competitive elements.

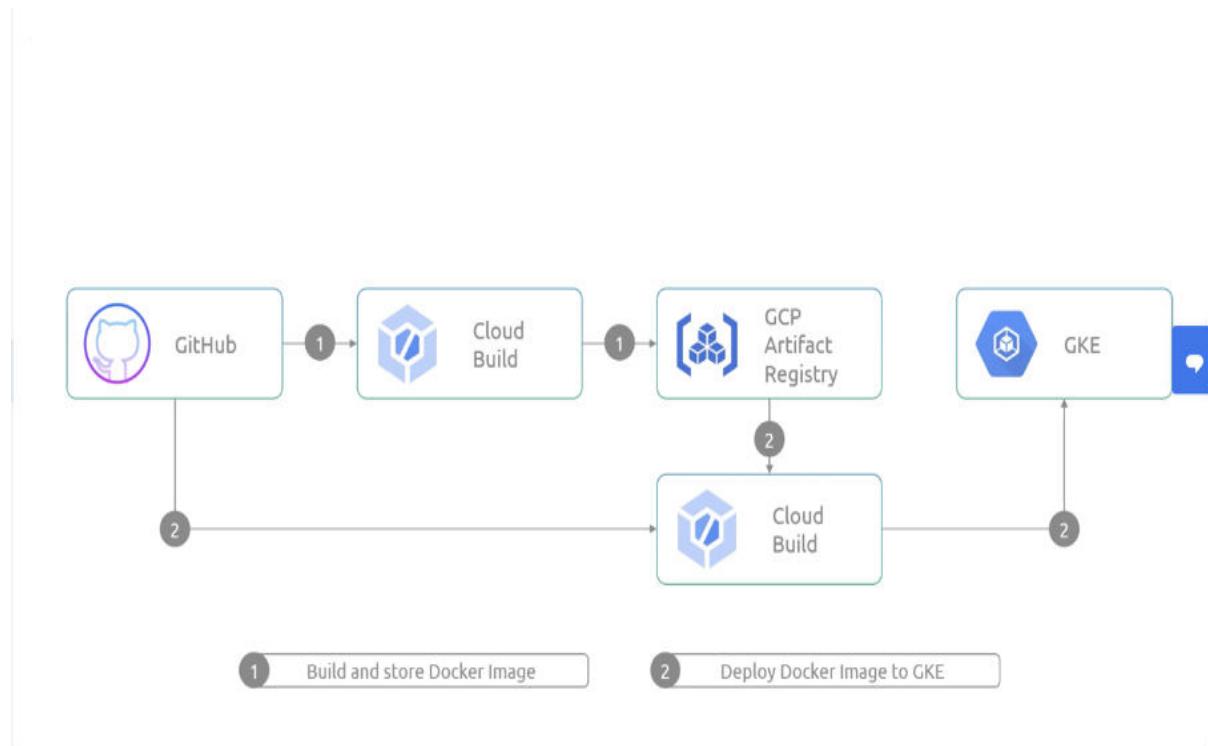
8.5. Branching Strategy

We use an open-source strategy of forking the main repository and then cloning it to your local computer. You should work on each feature in its own branch on your computer and

submit a pull request once it is complete. Upon review, the pull request will be merged into the main repository. This system is in place because it is easy to accidentally create commits with thousands of unnecessary changes, and rolling this back is difficult. If this occurs and you can't fix it easily, you can always back up the few files you did need to change and then delete your local repository, then clone your fork again and put your changes back in to give you a clean working copy again. Reach out to your team leader if you need help with this. As a result, only the team leaders will have direct access to the GitHub repository, others will be able to fork it and submit pull requests but not commit directly. The team leaders should also try to ensure that the other team leader reviews their code rather than merging their own commits without review

9. Product Architecture

9.1. UML Diagram



9.2. Tech Stack

Git Hub:

GitHub is an online software development platform. It's used for storing, tracking, and collaborating on software projects.

Google Cloud Build:

Cloud Build is a service that executes your builds on Google Cloud. Cloud Build can import source code from a variety of repositories or cloud storage spaces, execute a build to your specifications, and produce artifacts such as Docker containers or Java archives.

Google Artifact Registry:

Artifact Registry provides a single location for storing and managing your packages and Docker container images. You can: Integrate Artifact Registry with Google Cloud CI/CD services or your existing CI/CD tools. Store artifacts from Cloud Build.

Google Kubernetes Cluster:

Google Kubernetes Engine is a powerful cluster manager and orchestration system for running your Docker containers. It's built on the open-source Kubernetes system, giving you the flexibility to take advantage of on-premises, hybrid, or public cloud infrastructure.

10. Source Code

All the configuration files for cloud build and deployment are saved at:

<https://github.com/Arjodh-Singh/website-frontend/tree/minor/cloudbuild>

11. Login Credentials

N/A

12. Appendices

https://video.deakin.edu.au/media/t/1_yk64he12

18 Final HD Panel Presentation

This is your opportunity to showcase your achievements to demonstrate achievement of excellence

Date	Author	Comment
2023/05/28 20:05	Elaheh Karimi Zarandi	Ready to Mark
2023/05/29 11:03	Kevin Lee	Complete
2023/05/29 11:03	Kevin Lee	Good luck in the panel - focus on lasting outcomes that you can demonstrate - less on focused technical outcomes.
2023/05/29 14:57	Elaheh Karimi Zarandi	Sure, I am grateful for your valuable insight Kevin :blush:

DEAKIN UNIVERSITY

CAPSTONE TEAM PROJECT (B)

ONTRACK SUBMISSION

Final HD Panel Presentation

Submitted By:

Elaheh KARIMI ZARANDI
ekarimizarandi
2023/05/28 20:05

Tutor:

Kevin LEE

May 28, 2023





Redback Operations

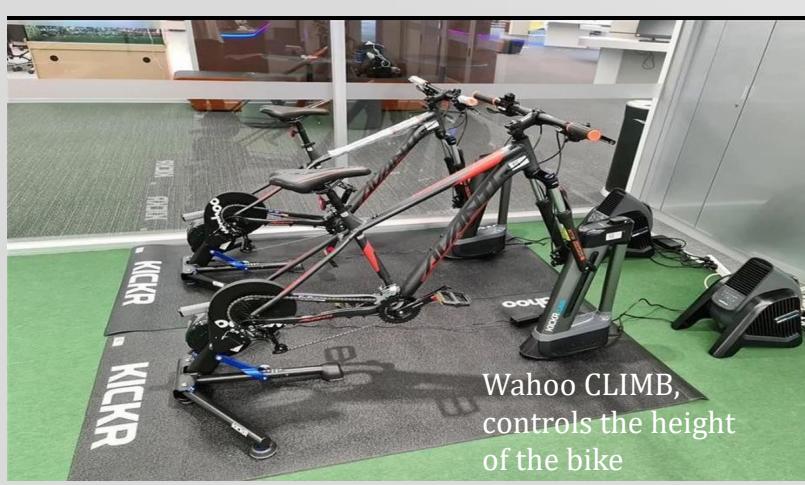
Name:	<i>Ella Zarandi</i>	Student ID:	<i>222064699</i>
Company Name:	<i>Redback Operations</i>	Target grade:	<i>HD</i>
Role title or area:	<i>Company Leader</i>		



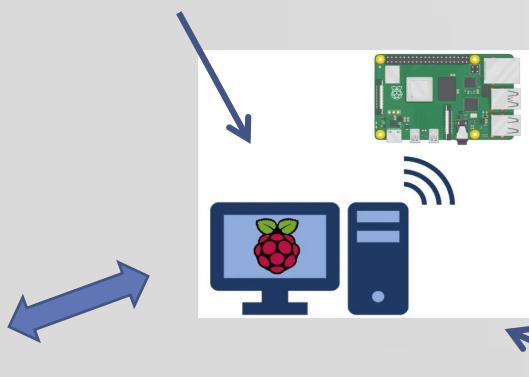
Company Mission

Redback is about gamifying exercise, to help people to be more active or train better.

The bikes connected to the mobile app and one branch VR applications via MQTT to produce system where people can do a workout or experience riding through the VR game environments .



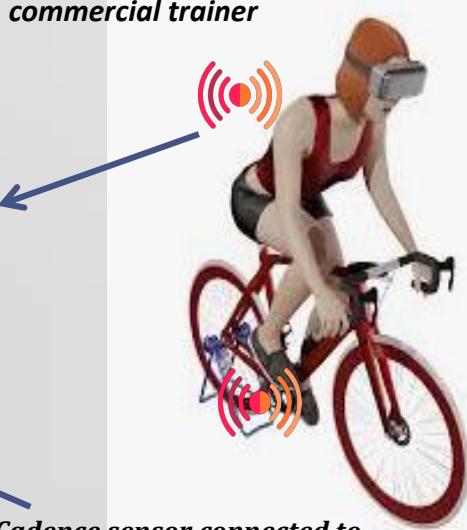
Wahoo KICKR Trainer , controls the resistance of the bike



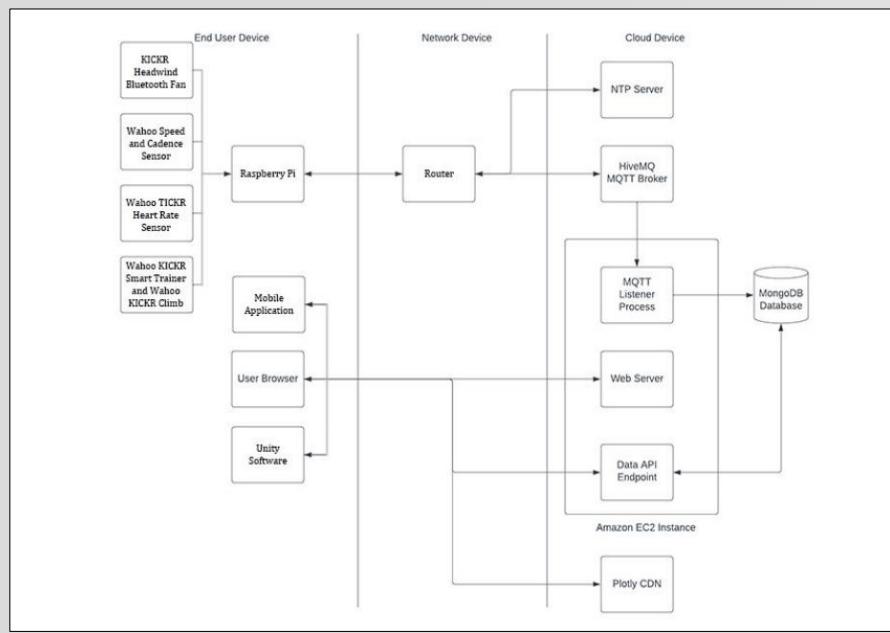
Two bikes were

developed at Burwood Campus which obtain speed, cadence, power readings from a commercial trainer

Heart rate readings from a Chest Strap, and can manipulate the resistance and incline of the bike as well as the fan speed if required.



The Data Origin and Data Pipeline in Redback Company:



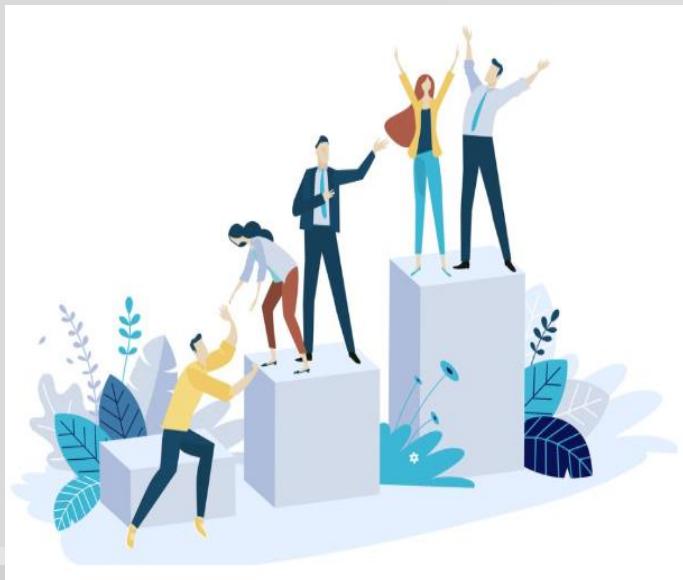
At Redback company we utilize “Contact Management System” (CMS).

There is a Rasberry Pi in place which gets the data through the Bluetooth from bike's sensors (Whaoo) in FIT format, and then this data is sent from Pi to the CMS, GCP, unity and mobile app.

In coding side, what is done is mostly coding in Python and java to get data from riders and sending it off to the mobile app to get used.

The protocol used for this data transport mechanism used by drivers is MQTT.

The impact of leadership role, on the overall company performance



I believe as the company leader I demonstrated an effective leadership skills to the company to create a positive work environment, where everyone felt supported and motivated.

At all the stage I made sure that I provided clear direction and guidance to members to increase efficiency and productivity across the company.

I performed the necessary skills and knowledge to make decisions and solve problems effectively.

leadership achievements

Here is a List of my leadership achievements, through working at the Redback company by end of week five



Conducted an effective on-boarding process

- *Prepared and Presented the recruitment presentation to provide juniors information about each teams, projects and the tech stacks, to be able to pick the right teams/projects to join,*
- *collecting information from the students to be able to position them within the company based on their skills and capabilities*
- *Run a company wide meeting and Organised the teams and established the leadership*
- *Set up access for members to their required tools and platforms*
- *Made sure all students were completely settled by end of week three and have their roles and tasks assigned*
- *Scoped the projects and sprint planning to set timeframes and goals*



Established the company Objectives and Project Report

- **Planned out projects and objectives for the company**
- **Created the projects documentation (Project overview, goals and objectives)**
- **Prepared the presentation's slides and running the presentations**



Keeping track of the progress

- **Scoped the projects and sprint planning to set goals timeframes**
- **Using Trello board as means of project management and Agile tool to keep track on the projects and deadlines**
- **Monitored and evaluated the project progress across the company, address potential issues and made sure the deadlines are met**
- **Merged two teams to ensure consistency in work.**
- **Made changes in two team's structure, in order to address the issues they faced to, through their participation and speed up the process of the project's progress in their team**

Promoted communication across the company

- Acted as the point of contact for all participants**
- Organized and run the meetings and events, created agendas and recorded the decisions.**
- Providing 1:1 support to the leaders and team members, to be sure everyone is on track**
- Keep track of all teams progress through our meeting and chat channels to establish team's work flow report, to pass it to the directors in our weekly meetings**
- Invited everyone to an in-person meeting, to get an opportunity to catch up and get to know each other.**



Self-management

As self-management is an important leadership quality, so I worked so hard to improve my skills in this area and I believe that I have demonstrated a wide range of self-managing skills as below:

- Evaluating my technical and leadership knowledge and skills and put a lot of effort into researches and up-skilling***
- Performing a remarkable planning and organizational skills***



- Time management***
- Working independently and seeked for support and advice when required***
- Outline project goals, based on the status of the projects and the member's capabilities***
- Stress management***
- Creating to-do list and strict deadlines for team members and myself***
- Evaluating self- progress toward the goals***
- Used the provided feedback to improve my progress***
- Problem solving and Decision making***
- Monitoring and evaluating the company progress***

Promoted Tech Literacy at the company

To Promote Tech Literacy in the Redback company, and to support the leaders with their project planning process, I got myself familiar and up skilled with all the tools and coding languages utilized across the company.

Also I conducted a deep research to review and evaluate the status of the current company's projects, and came up with wide range of new ideas and projects for different teams, to develop and implement new features to our company's products.

Below are the resources that I had access to:

- ***Studied through the handover document,***
- ***Conducted meetings with the previous company leader,***
- ***Learned through the GitHub***
- ***Went through resources accessible in the Chat channels***
- ***Referred to the last Trimester Trello boards***
- ***Researche***



Identified the existing project's issues and Suggested the possible solutions



To find out about IOT projects , the scripts were tested and the Raspberry Pi and other hardware were tried out ,

The issues/bugs were defined and listed and assigned to the IOT members to get fixed,

- The KICKR would't start, after running the script,
This bug is fixed,
Defined the bug
Tested/checked out the CMS to be sure the values>0 is also transported***
- Develop the FTP and workout features locally through the PI, without needing the APP running.***
- Remote access to Rasberry Pi***

- Redesigned and modified some projects' plans to make them achievable



Access to Data

- Get the web-design team, to develop an API to present the data stored in CMS in our website(this project is currently on pause, as we decided to try out the second option)
- Create a FIT file, to extract the FIT files from wahoo directly (Mark is currently working on that and he is about to complete it)

The Fan would keep publishing data,(even when it is off, still it would publish 0s,

Suggested the solution by modifying the project to also be able to control the fan's operation using IOT's features, for the times that we don't have access to the VR and App's products.

Advised to conduct some researches about how we could use kickr's data values to control/adjust the Fan's operation, so When the speed is 0, stop sending data to reduce the cost of GCP, so that the fan output is assimilated with the 'speed of the bike', so we want to have the KICKR speed to be fed into the FAN python script, such that the Wahoo fan speed increases/decreases as the KICKR speed increases.

Also we are working on FTP and workout projects just in their IOT perspective

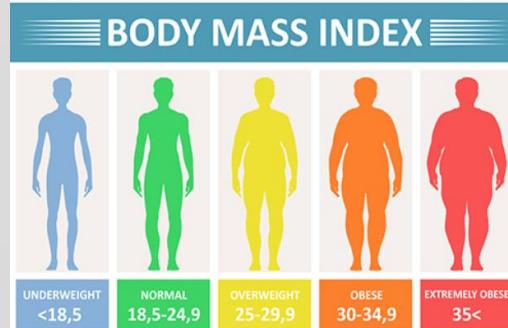
Fitness Tracker

The aim of this project is to implement a foundational tool to collect data from users and their workouts to be able to provide them with a regular fitness routines and workouts to make their exercise performance more effective.

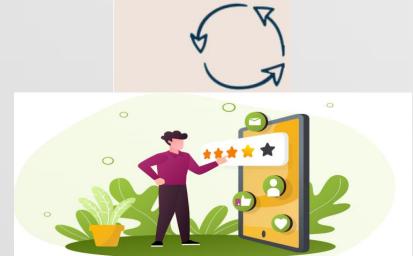
In this project the data set which has been used, called "Master Data" which is accessible through BigQuery.

Data Dictionary

Fields	
Distance	show distance in either miles/feet (statute units) or kilometers/meters (metric units)
Enhanced_altitude/Altitude	To determine the rider's elevation which means the total number of feet the rider climb in a ride This information is recorded during the activity and is used to report elevation related information in Garmin Connect.
Ascent	A climb or walk to the summit of a mountain or hill/an instance of rising or moving up through the air.
Total Ascent	A total of elevation gain which means the total number of feet the rider climb in a ride
Average Ascent	Provides an average of all ascents recorded during an activity
Maximum Elevation	Provides the highest elevation achieved.
Grade	Data field for Garmin devices that calculates the slope (or grade) of the hill users are walking on
Calories	This is the total of active and resting calories that are calculated during a recorded activity on your device (from the moment that you start the timer for the activity to the moment you stop the timer)
Speed/Distance Algorithm:	This is the most basic method of determining calories. It is represented in calories/kcal.
Speed/Enhanced Speed:	It is distance by total time spent on an activity. It is calculated in m/sec or m/h. If the values of speed are too large to be fit in speed, then enhanced speed is used.
Heart_rate:	heart rate values can be set as absolute or relative values. Absolute values represent beats per minute (bpm) for heart rate, or watts for power.
Temperature:	The Temperature widget will display the ambient air temperature near the barometric altimeter port. This reading can be affected by body heat. It is represented in



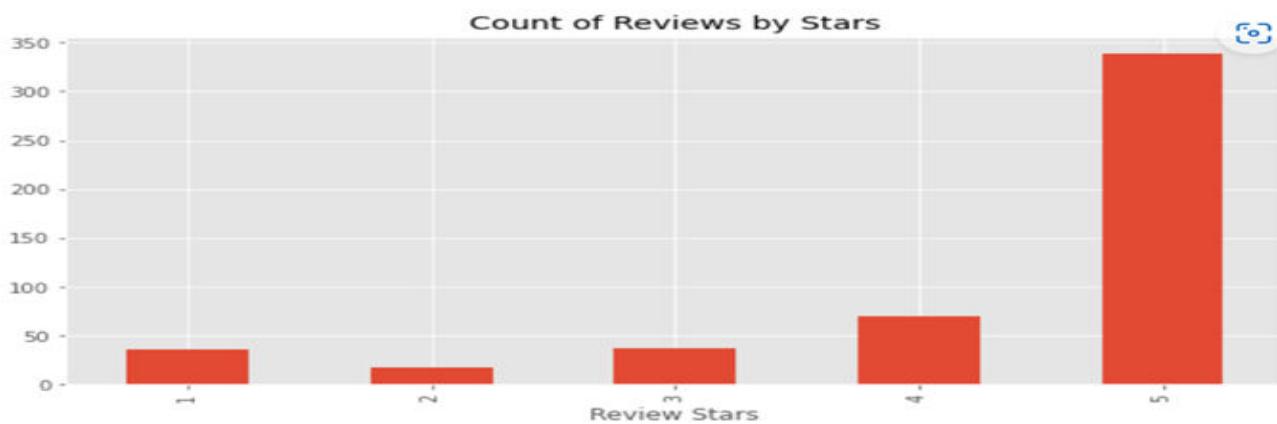
FEEDBACK ANALYSIS



Feedback Analysis

Aim of the project was to train and prepare a “feedback analysis model” for our products.

- *The Vader Model is developed*
- *Ran NLTK word tokenizer to splits the feedbacks*
- *The required Tokens are generated*
- *Sentiment scores are generated and added to the current dataset*

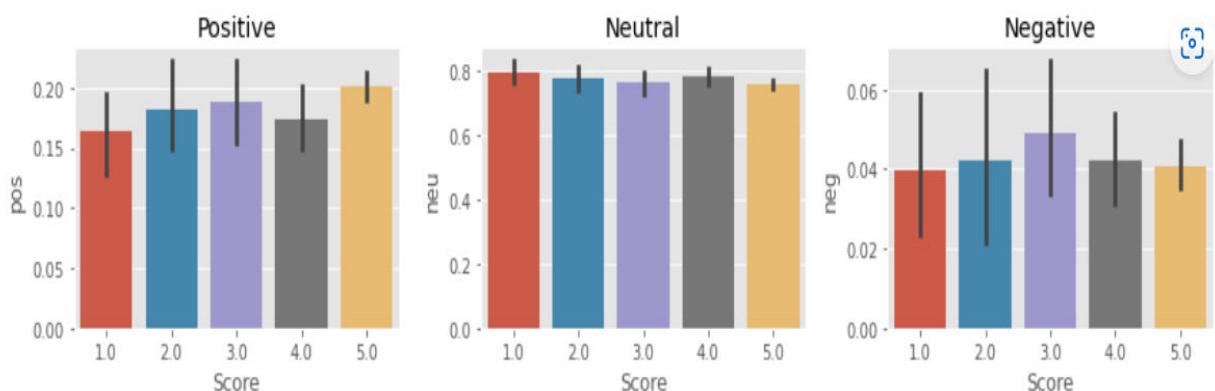


the plot we can seFrome that most of the reviews are 5 stars

The Model has been tested and ran different plots to confirm that the Vader Model achieves the result of 80% accuracy on testing the current dataset.

```
# Test 2
sia.polarity_scores('This is the worst thing ever.')
{'neg': 0.451, 'neu': 0.549, 'pos': 0.0, 'compound': -0.6249}

sia.polarity_scores('This is the best thing ever.')
{'neg': 0.0, 'neu': 0.543, 'pos': 0.457, 'compound': 0.6369}
```



BMI Calculator

A BMI Calculator has been implemented using python, which receives "Height" and "Weight" from user to calculate and round the BMI to 2 decimal places and shows the user's BMI category using a function called "BMI". Also this code will check the entered values for "Height" and "Weight" and if it's not valid, it will respond: "Incorrect Data"

Benefits:

Easy to measure,

No expensive equipment needed,

It is quick and cheap to work out,

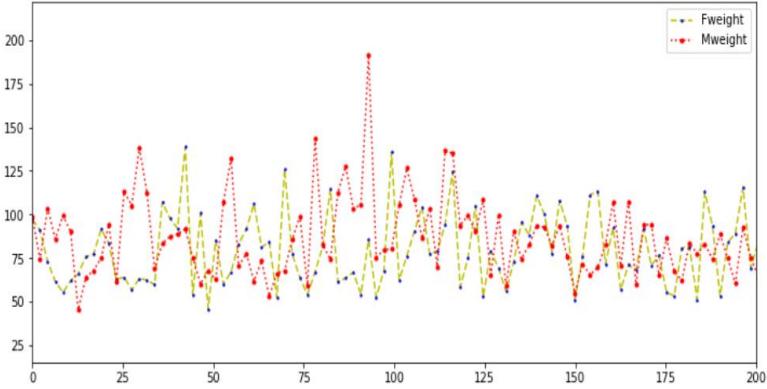
The categories of BMI:

BMI less than 16, classified as "Severely Underweight",

BMI 16 to <18.5, classified as "Underweight" range.

BMI 18.5 to <25, classified as "Healthy weight" range.

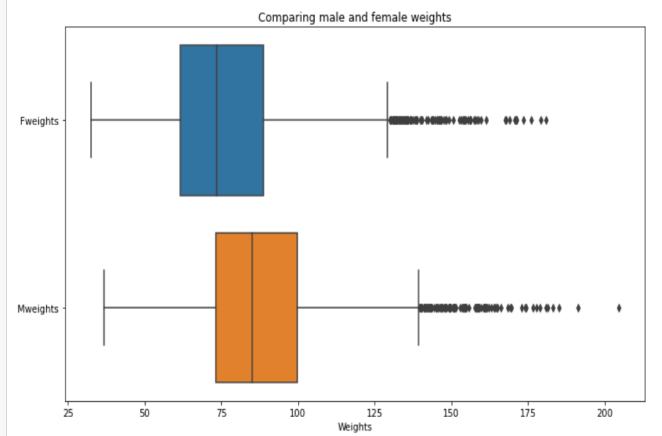
BMI 25.0 to <30, classified as "Overweight" range.



Enter height in Meter: 1.6

Enter weight in KG: 58

Your BMI is: 22.66 which is Healthy, the normal BMI is between 18.5 to 25



Corporate Reporting Project



The Corporate Reporting project aims to create the static reports mentioned below, using SQL queries on the underlying tables.

- Weekly summary reports
- Ranking analysis reports
- Workout summary reports

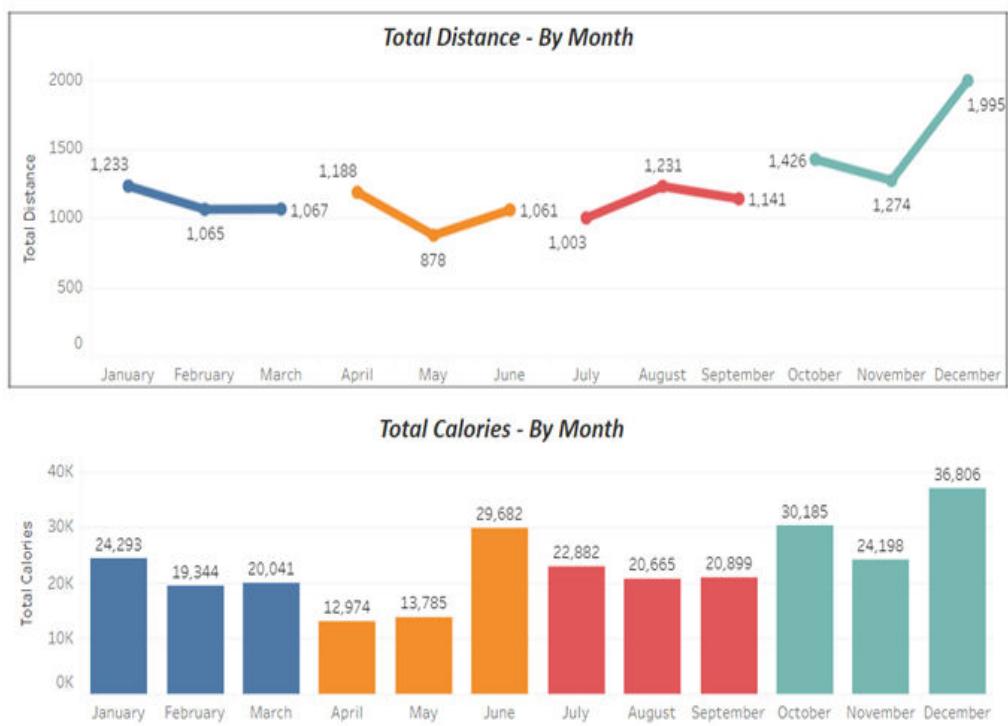
There will be views created which will pull out the data required from the tables and produce the reports.

This project will also aim at creating dynamic dashboards (Power BI or Tableau) that pulls data from database every time we need reports and generates the reports.

Tracking Summary Report 2021 - All Users

Month of Dates	Total Calories	Total Distance
January	24,293	1,233
February	19,344	1,065
March	20,041	1,067
April	12,974	1,188
May	13,785	878
June	29,682	1,061
July	22,882	1,003
August	20,665	1,231
September	20,899	1,141
October	30,185	1,426
November	24,198	1,274
December	36,806	1,995

Tableau Dashboard - Total Report by Month (All Users)



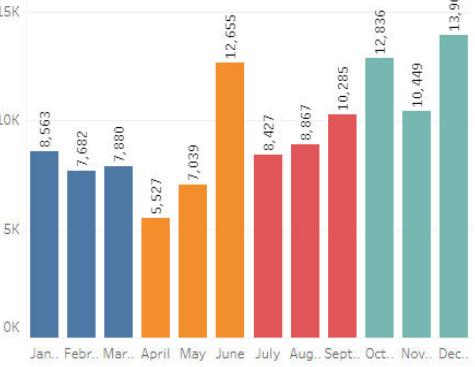
Monthly Calories and Distance Report - All Users (Average, MAX and MIN)

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	8,563	597	42,613	2,826	0	0
February	7,682	535	36,740	2,563	0	0
March	7,880	562	39,198	2,690	0	0
April	5,527	516	26,110	2,515	0	0
May	7,039	468	33,424	2,253	0	0
June	12,655	575	58,925	2,748	0	0
July	8,427	518	39,149	2,462	0	0
August	8,867	657	41,919	3,116	1	0
September	10,285	673	48,721	3,161	4	0
October	12,836	799	58,991	3,714	5	0
November	10,449	673	49,094	3,140	87	0
December	13,909	936	65,280	4,373	44	0

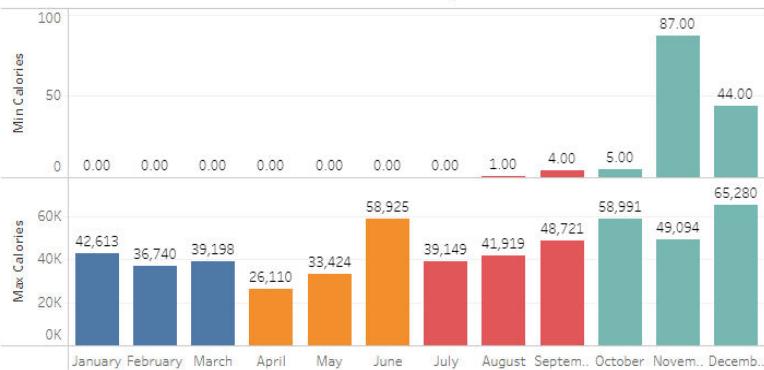
AVG Distance by Month - All Users



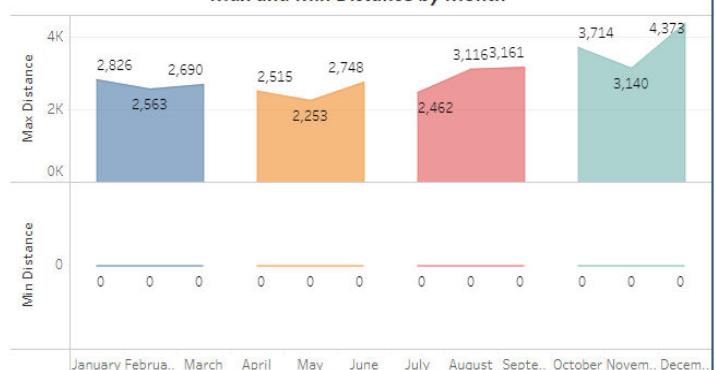
AVG Calories by Month



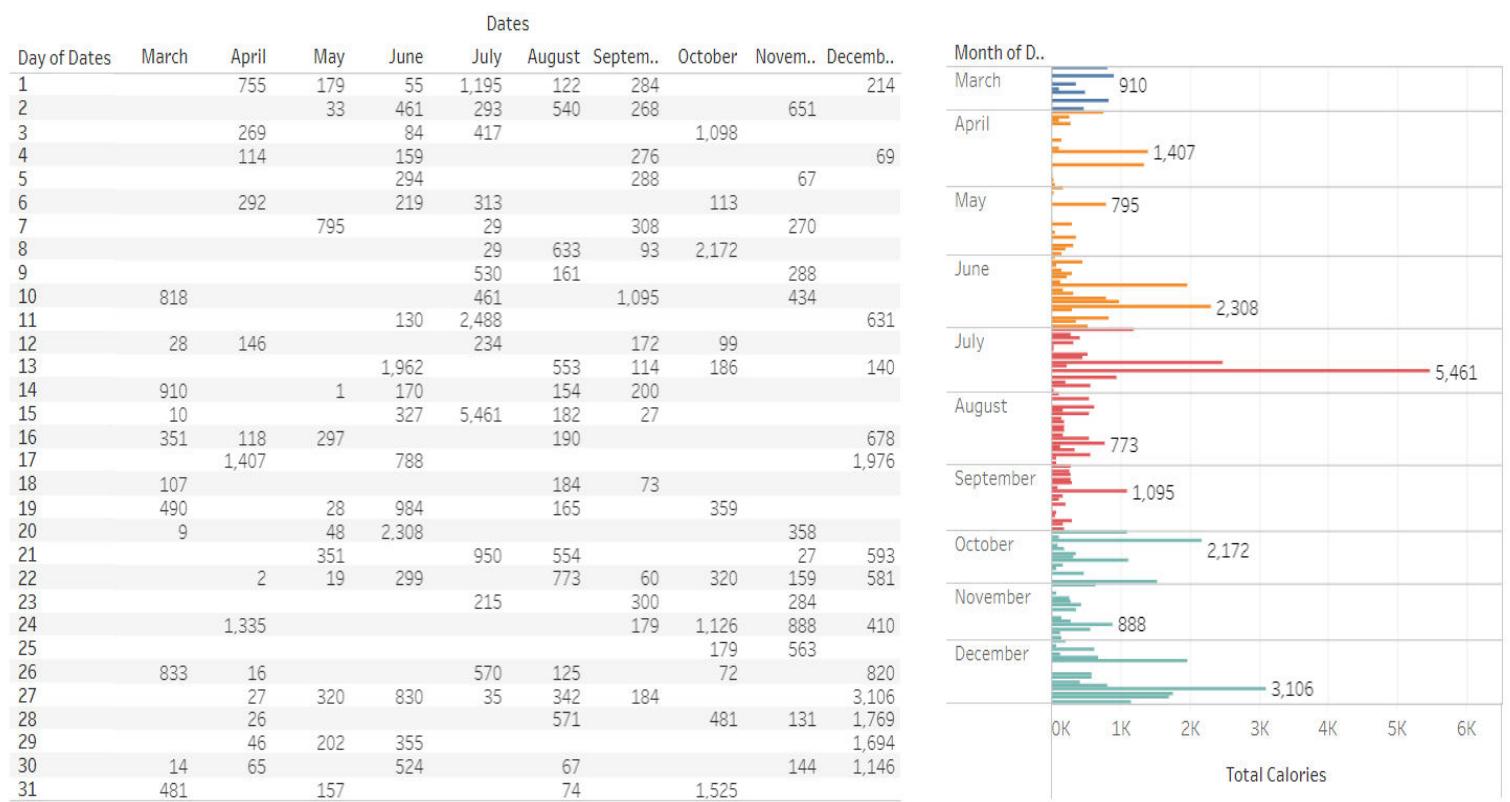
Max and Min Calories by Month



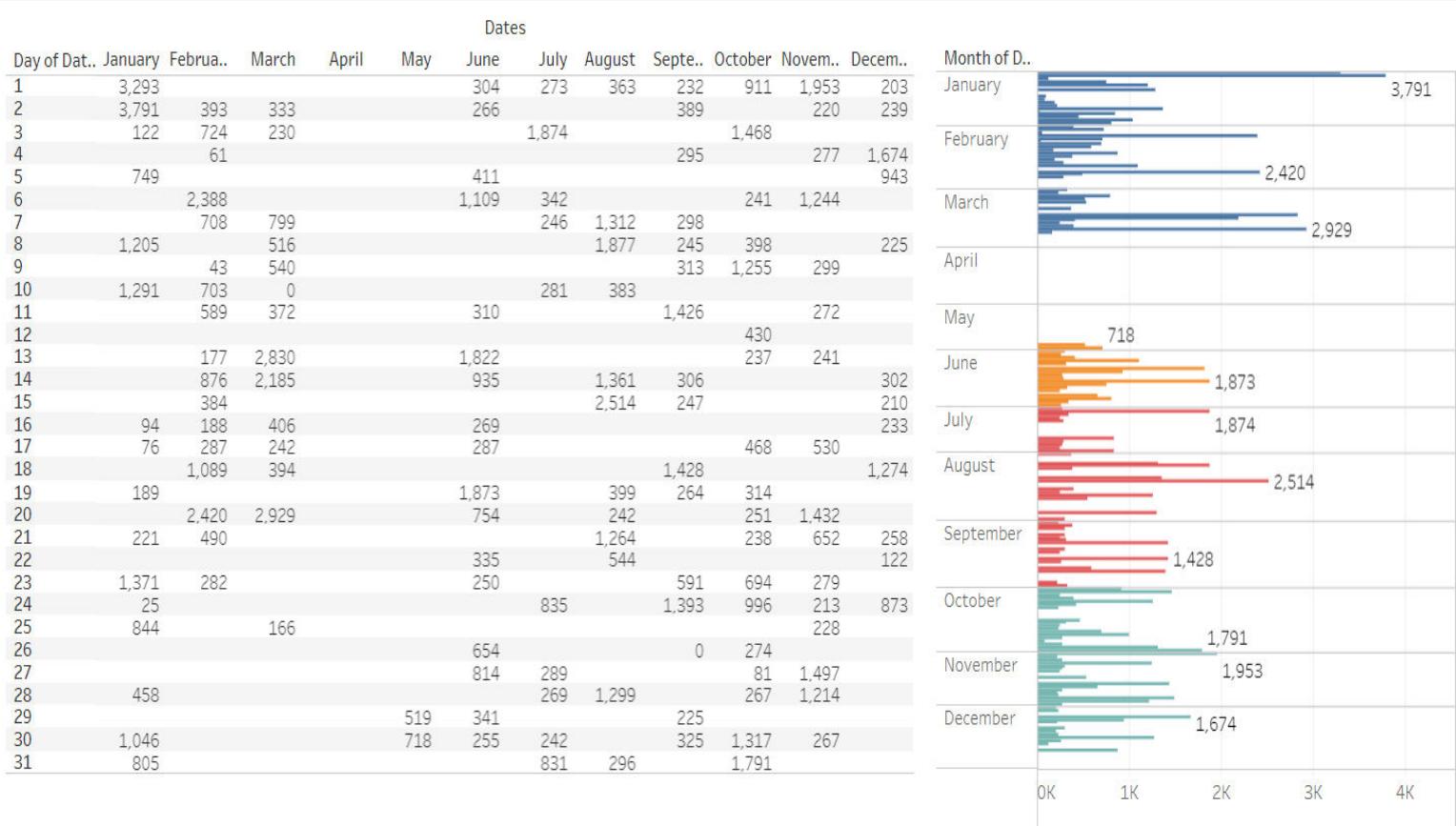
Max and Min Distance by Month



Daily Calorie Tracking 2021 - User U000000



Daily Calorie Tracking 2021 - User U000007



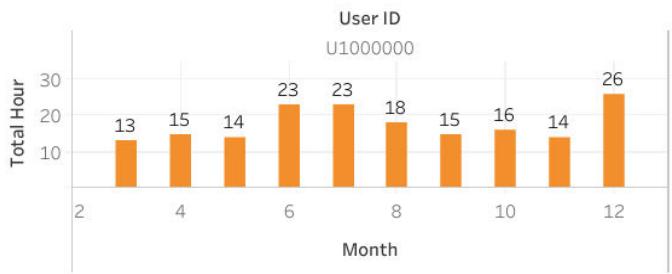
Summary Tracking 2021 - User U000000

Month of Dates	Total Calories	Total Distance
March	4,051	133
April	4,618	138
May	2,430	93
June	9,949	312
July	13,220	360
August	5,390	157
September	3,921	124
October	7,730	239
November	4,264	133
December	13,827	402

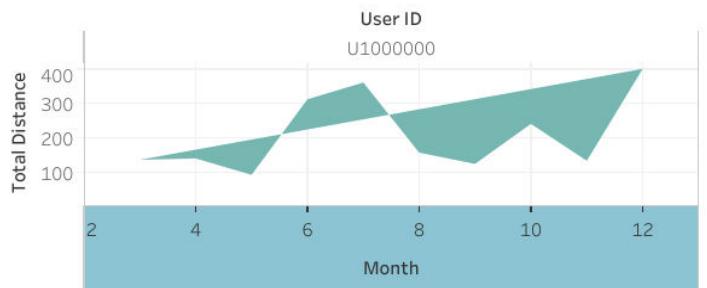
Total Calories by Month



Total Hours by Month



Total Distance by Month

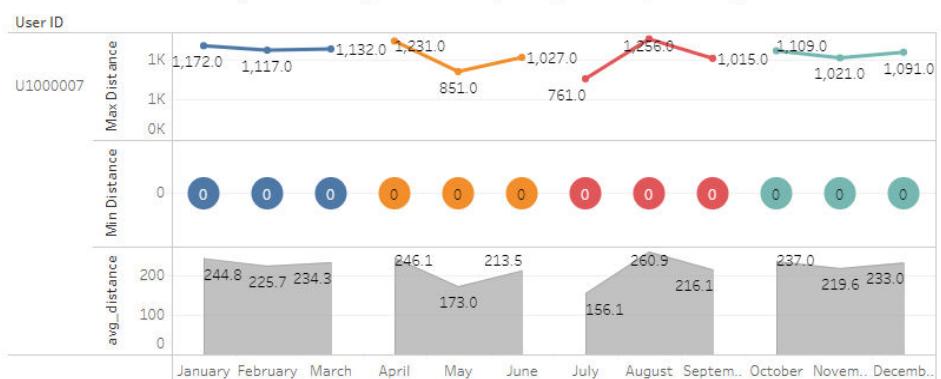


Max, Min, and Avg Monthly Report 2021 - U000007

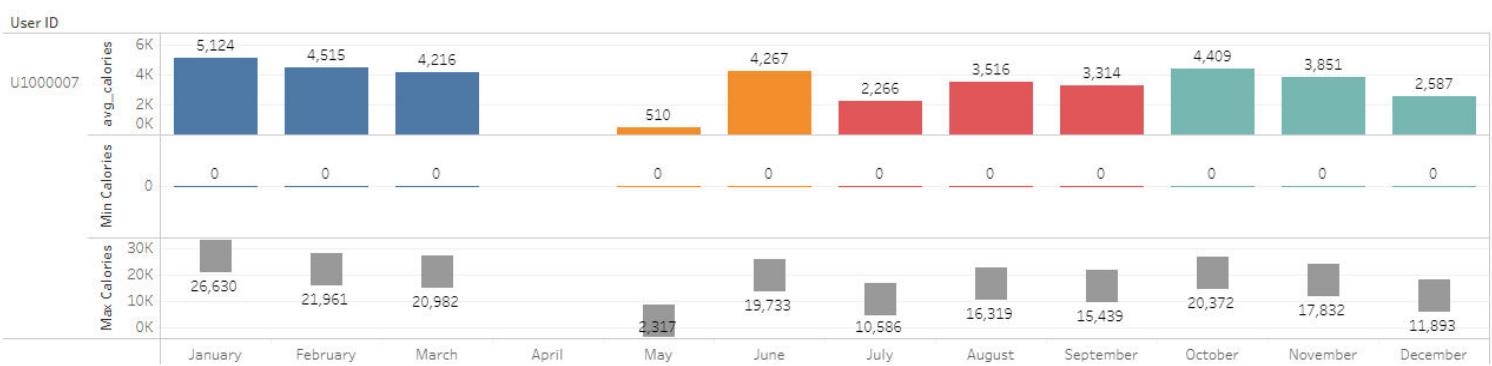
**Monthly Calories and Distance Report - U000007
(Average, MAX and MIN)**

Month of date AEST	Avg Calories	Avg Distance	Max Calories	Max Distance	Min Calories	Min Distance
January	5,124	245	26,630	1,172	0	0
February	4,515	226	21,961	1,117	0	0
March	4,216	234	20,982	1,132	0	0
April		246		1,231		0
May	510	173	2,317	851	0	0
June	4,267	213	19,733	1,027	0	0
July	2,266	156	10,586	761	0	0
August	3,516	261	16,319	1,256	0	0
September	3,314	216	15,439	1,015	0	0
October	4,409	237	20,372	1,109	0	0
November	3,851	220	17,832	1,021	0	0
December	2,587	233	11,893	1,091	0	0

Max, Min and Avg Distance Report by Month (U000007)



Max, Min and Avg Calories Report by Month (U000007)





Redback Operations

Thank you