

Design Thinking Process – The Witchers

Team members:

Jayasheelan R – 19IT037

Mohan Kumar R-19IT059

Sree Vignesh K-19IT102

Code of cooperation:

❖ Communication

- Team members will be responsive to messages and timely with honest updates about individual work.
- Team members will give constructive criticism, and take criticism with an open mind.

❖ Reliability

- Team members will show up to group meetings on time, and communicate absences ahead of time.
- Team members will finish tasks by determined deadlines, and ask for help if challenged to meet these deadlines.

❖ Team-player

- Team members will do the work that is necessary for team success, even if it's "not my job" or not of particular interest.
- Team members will find an aspect of the product that interests them, even if the product is not their first choice.

❖ Decision making

- Team members will discuss facts, rather than assertions, when determining project direction, and avoid bias towards previous work.
- Team members will be conscious of the work that has gone into every task when deciding on project direction.
- Team members will ensure all members have had adequate opportunity to provide input, and that no set of members has dominated that conversation.

❖ **Ownership**

- Team members will take initiative on tasks, and bring up timely concerns with product direction
- Team members will put in the time and research to defend the ideas that they are adamant about.
- Team members will push others to work hard.

❖ **Experience**

- Team members will create a collaborative and innovative work environment for others.
- Team members will present ideas that contribute to the learning objectives of the team, including:
 - ◆ Tangible and meaningful user need.
 - ◆ Opportunity for everyone to contribute.
 - ◆ Mechanical design required.
 - ◆ Software required.

DEPARTMENT OF INFORMATION TECHNOLOGY

18IT490 – PROJECT MANAGEMENT

Stakeholders Survey - Planning Meeting Minutes

Team Name: The Witchers

Date: 08.06.2021

Sl. No	Required Details	Fill the below boxes
1	Identification of stakeholders (SH) <input type="checkbox"/> Minimum 20 persons for sending survey url <input type="checkbox"/> Provide user details	https://drive.google.com/file/d/1u-Vv-VVxkIZVJQVPO0SFqieo9IEuCsnD/view?usp=sharing
2	Tools selected for survey (paper, online tool such as Google form, survey monkey etc)	Google form. The google form url : https://docs.google.com/forms/d/e/1FAIpQLSelgZ0O2mN7Jni_700HQRHzHMyWIOvEn1GWaQBNKJW46Adg/viewform?usp=sf_link
3	SH Survey Schedule (Tentative dates - start date and end date)	20.4.2021 to 24.04.2021

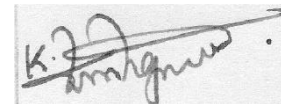
4	<p>Survey Questions</p> <p><input type="checkbox"/> Minimum 15 necessary questions with multiple options</p> <p><input type="checkbox"/> User category-wise separate question set</p>	Question Set	<ol style="list-style-type: none"> 1. Where do you think drones are used? 2. In which way drones are useful to various departments like police, military, navy etc.. ? 3. What functions does Agricultural drones have? 4. Will drones be kids friendly(Controller drone)? 5. What do you think about Agricultural drones? 6. What are the unexpected things happen while using Delivery drones? 7. Do you think cost will be a major concern? 8. What are the commercial application of drones? Give your ideas. 9. Which design do u prefer? 10. Which Material is do you suggest to built a drone to fit in agriculture?
---	---	--------------	---

Declaration:

This document is prepared by the PPL with the help of PA after discuss with whole team members on the date 08.06.2021

PPL SIGNATURE

PM SIGNATURE

DEPARTMENT OF INFORMATION TECHNOLOGY

18IT490 – PROJECT MANAGEMENT

Stakeholders Interview - Planning Meeting Minutes

Team Name: PM SQUAD

Date:16-06-2021

Sl. No	Required Details	Fill the below boxes		
1	Identification of stakeholders (SH) <ul style="list-style-type: none">• Minimum 5 persons for Interview• Provide Name&Contact details	SH1-Deepak,cse SH2-Jagan,mbbs SH3-Monish kanna ,mbbs SH4-Koushik balaji,cse SH5-Gopi rajan ,mechanical engineer SH6-Pradeep kumar,cse SH7-Abishek,chemical engineer		
2	Tools selected for interview (Paper-pen, Tape, Camera, Mobile etc)	Google Meet		
3	SH Meeting Schedule <ul style="list-style-type: none">• 1 Member per one SH• Team members details (Name/Reg. No)• Tentative date and time	Stakeholders	Members	Date & Time
		SH1	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06-2021 8.00 PM
		SH2	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06-2021 8.05 PM
		SH3	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06-2021 8.10 PM
		SH4	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059	16-06-2021 8.15 PM

			3.K .SREE VIGNESH – 19IT102	
		SH5	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06- 2021 8.20 PM
		SH6	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06- 2021 8.25 PM
		SH7	1.R.JAYASHEELAN - 19IT037 2.R.MOHAN KUMAR -19IT059 3.K .SREE VIGNESH – 19IT102	16-06- 2021 8.30 PM
4	Interview Questions <ul style="list-style-type: none"> • Minimum 10 necessary questions • User category-wise separate question set 	Question Set 1	1.Name 2.Profession 3. How do you think about drones helping framers in field? 4.What are the characteristics of soil that is good for crop growth? 5. Can you suggest any other ideas for analysing soil 6.Do you think computer imaging will be helpful to our project? Any suggestions. 7.Will customizable drone be attractive at market side? 8.Will our project become successful if released in market? 9.Drone irrigation advantages over traditional system? 10.Hand sowing vs drone seed planting pros?	

			11.Perfect material for drone outer surface? 12.rechargable battery or use and throw battery 13.Will it be good if we collect data from drones to our cloud system for efficiency and calibration process
5	Rules needs to follow during interview	1. Only interview people who willing to be interviewed 2. Ask relatable and necessary questions. 3. Do not force a reply from people. 4.Do not ask personal questions 5. Do not synthesize responses.	

INTERVIEW LINK:

[Interview Link 17.06.2021](#)

Declaration:

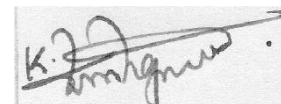
This document is prepared by the PPL with the help of PA after discuss with whole team members on the date 08.06.2021

PPL SIGNATURE

PM SIGNATURE



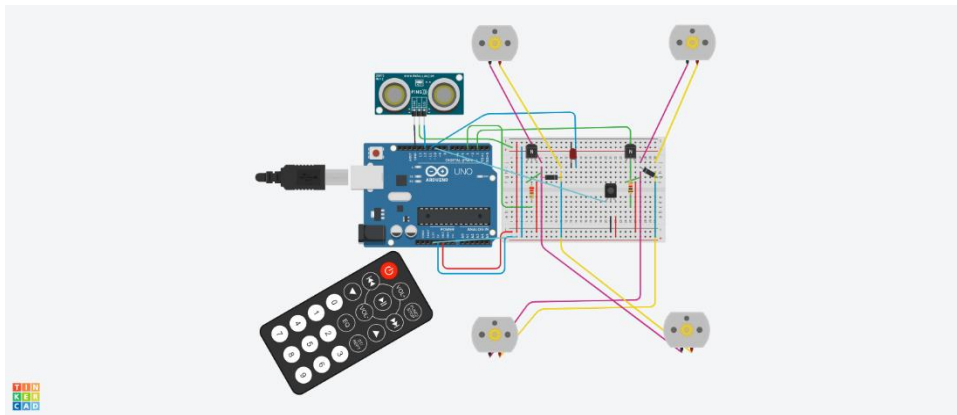
Two handwritten signatures in black ink. The top signature appears to be 'Fahim Khan' and the bottom signature appears to be 'Jayant'.



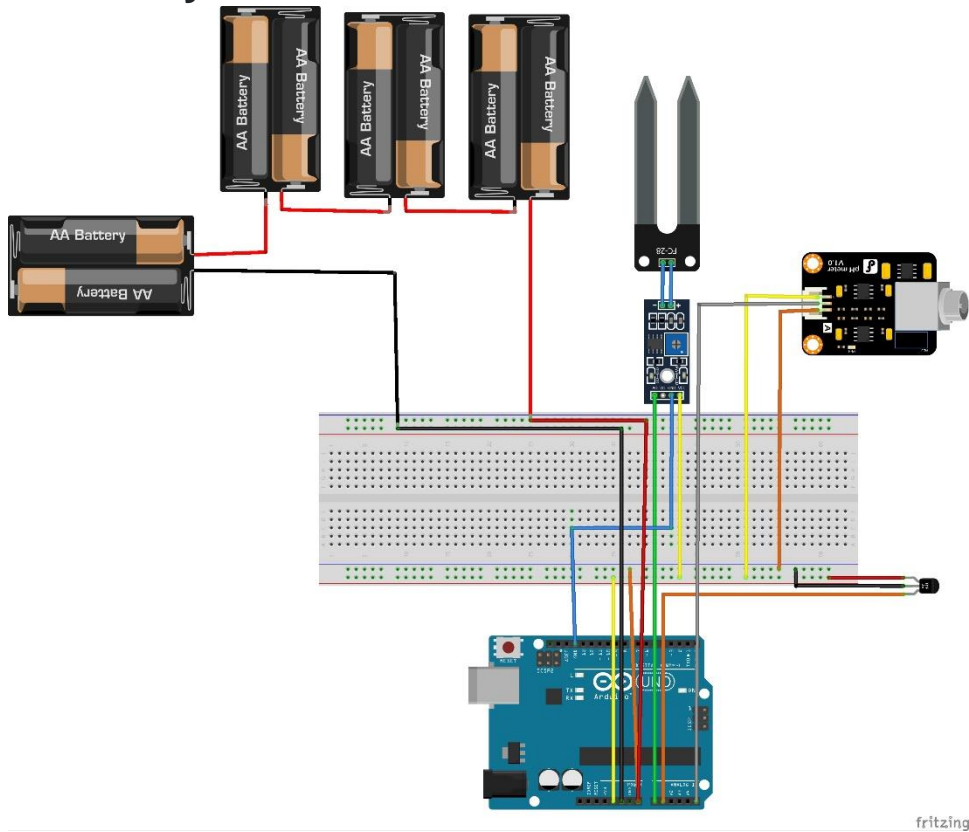
A handwritten signature in black ink, likely belonging to the PM, with the initials 'K.J.' visible at the start.

Low-cost model demo:

Drone circuit:

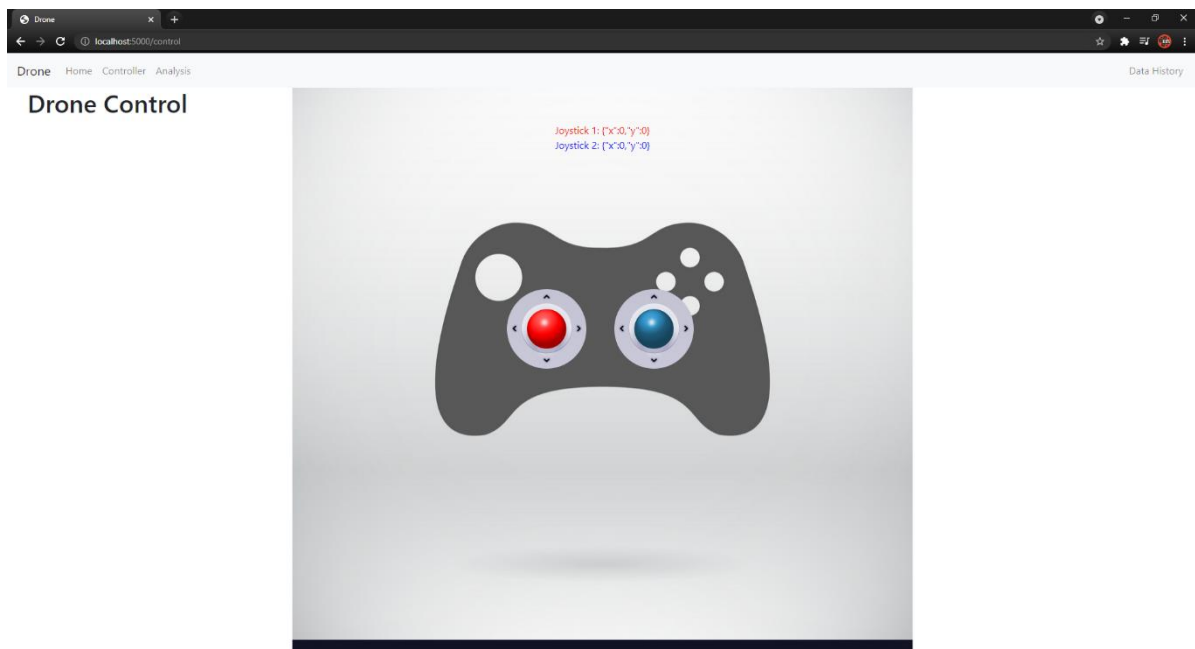
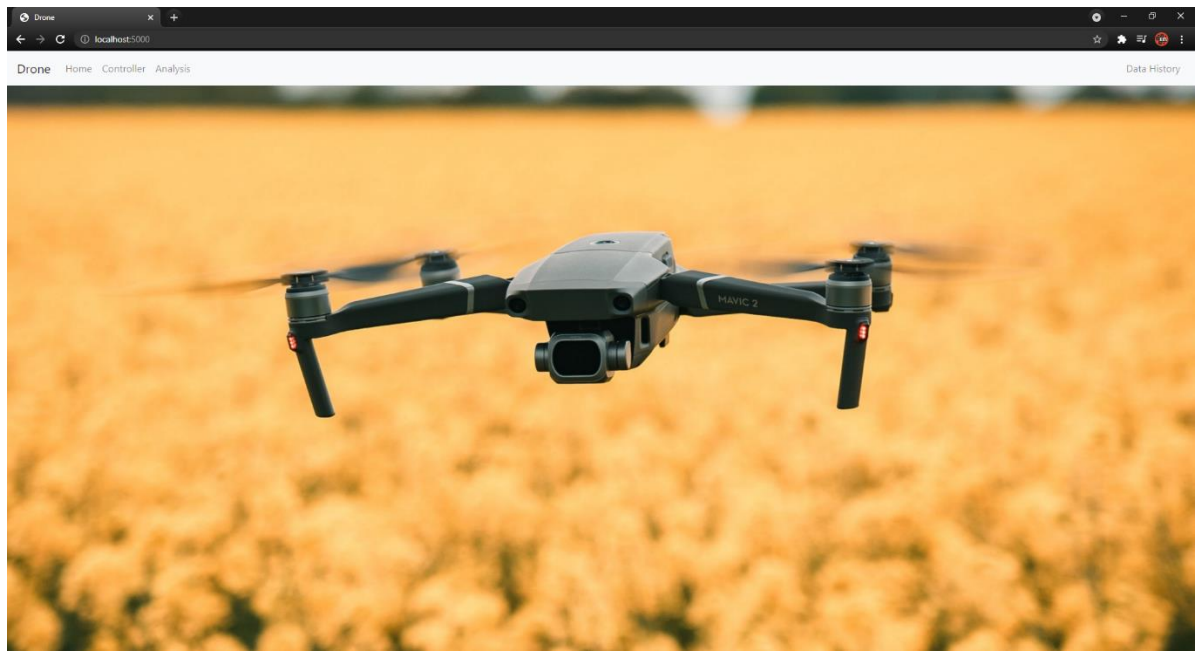


Soil analysis sensor circuit:



UI:

DESKTOP View:



Drone

Drone Home Controller Analysis

localhost:5000/history

Drone Home Controller Analysis

Data History

Rice Data

Date	Temperature(In Celcius)	Infrared(In nm)
15-05-2021	22	700
18-05-2021	16	750
21-05-2021	11	800
24-05-2021	15	900
27-05-2021	20	1200
30-05-2021	28	1000
03-06-2021	31	900
06-06-2021	37	1100

Wheat Data

Date	Temperature(In Celcius)	Infrared(In nm)
15-05-2021	27	700
18-05-2021	25	750
21-05-2021	22	800
24-05-2021	18	900
27-05-2021	23	1200
30-05-2021	19	1000
03-06-2021	11	900
06-06-2021	7	1100

NPK Value and ADC Value of Soil

Date	N2(In %)	P(In %)	K(In %)	ADC Value
15-05-2021	3	1.5	2	190

Drone

localhost:5000/history

Drone

Home

Controller

Analysis

Data History

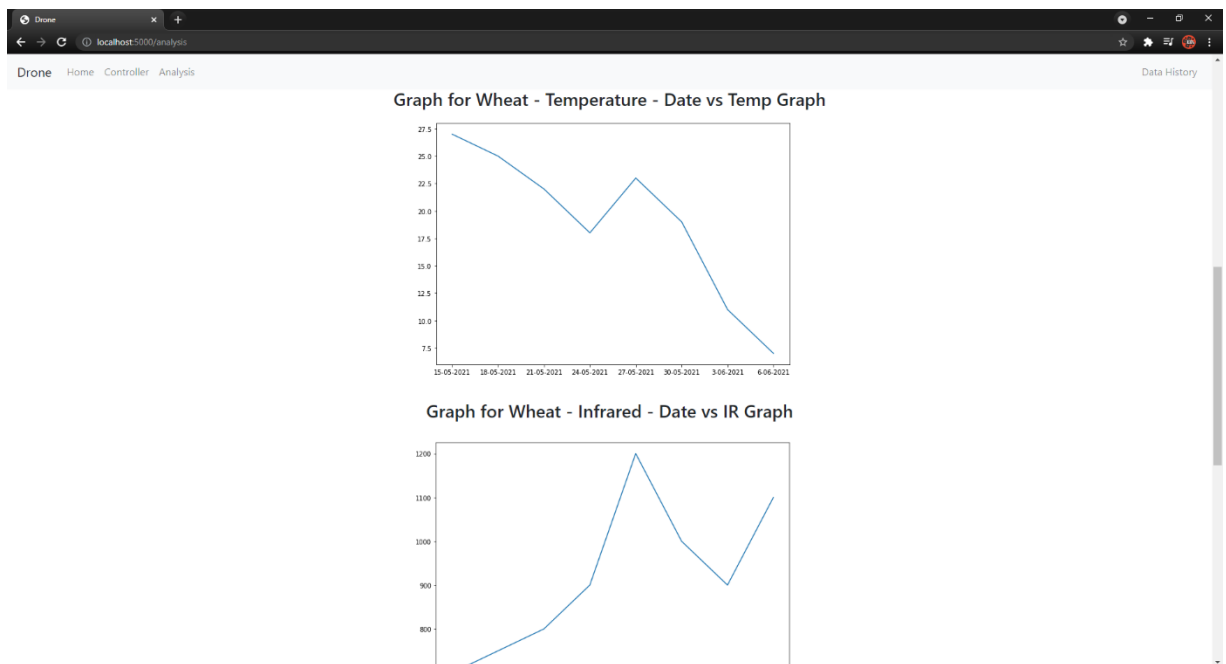
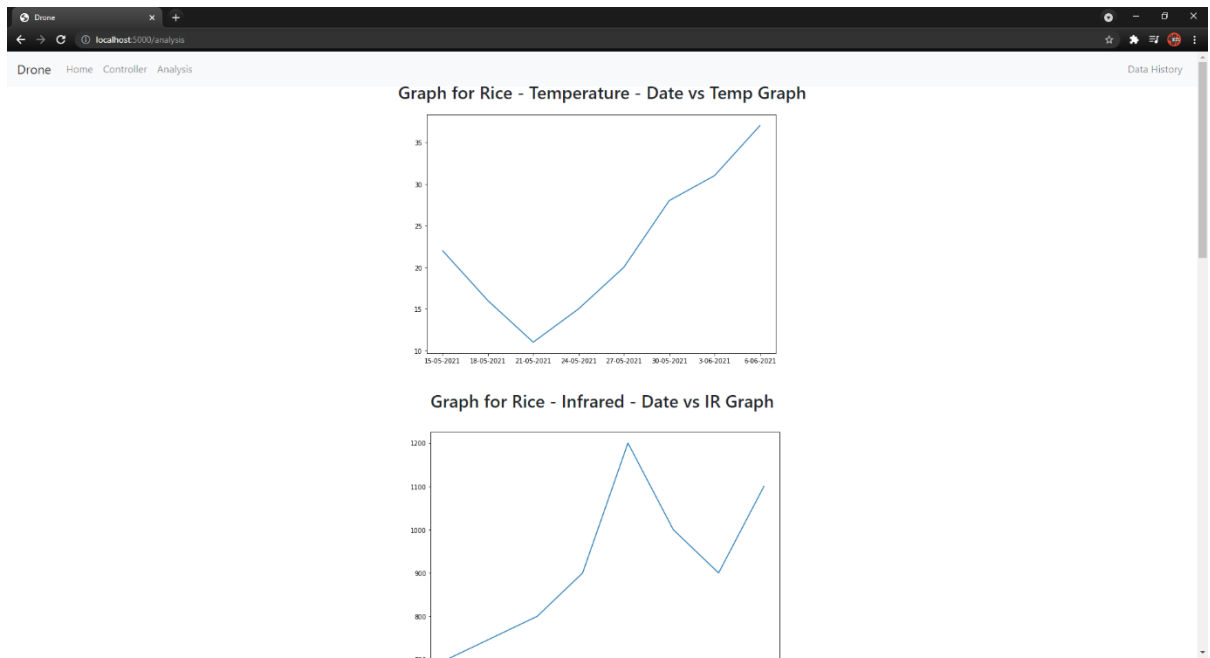
06-06-2021	37	1100
------------	----	------

Wheat Data

Date	Temperature(In Celcius)	Infrared(In nm)
15-05-2021	27	700
18-05-2021	25	750
21-05-2021	22	800
24-05-2021	18	900
27-05-2021	23	1200
30-05-2021	19	1000
03-06-2021	11	900
06-06-2021	7	1100

NPK Value and ADC Value of Soil

Date	N2(In %)	P(In %)	K(In %)	ADC Value
15-05-2021	3	1.5	2	190
18-05-2021	3.5	1.5	2	280
21-05-2021	3.5	1	2.5	330
24-05-2021	2	1	2.5	550
27-05-2021	3	1.5	2.5	450
30-05-2021	3	1.5	1	510
03-06-2021	3	2	1.5	740
06-06-2021	2	1.5	2	770



Drone

Home Controller Analysis

15-05-2021 18-05-2021 21-05-2021 24-05-2021 27-05-2021 30-05-2021 3-06-2021 6-06-2021

Data History

NPK Ratios - [Should br in range of 1.5-0.5-1 to 3.5-1-2]

Date	NPK Ratio	Quality 1-10
15-05-2021	2-1-1.3	6
18-05-2021	2.3-1.5-1.3	4
21-05-2021	3.5-1-1.5	8
24-05-2021	2-2.5-1	3
27-05-2021	2-1-1.6	7
30-05-2021	3-1-2.5	2
03-06-2021	2-1-1.6	9
06-06-2021	1.3-1-1.3	7

Moisture Percentage - [Should br in range of 10%-45%]

Date	Moisture (In %)	Soultion
15-05-2021	81.4	Too High
18-05-2021	72.6	Too High
21-05-2021	67.7	High
24-05-2021	49.2	Avg
27-05-2021	56	More than Avg
30-05-2021	50.1	More than Avg
03-06-2021	27.6	Avg
06-06-2021	24.7	Avg

Mobile View:

Drone

Home Controller Analysis Data History

24-05-2021 15 900

27-05-2021 20 1200

30-05-2021 28 1000

03-06-2021 31 900

06-06-2021 37 1100

Wheat Data

Date	Temperature(In Celcius)	Infrared(In nm)
15-05-2021	27	700
18-05-2021	25	750
21-05-2021	22	800
24-05-2021	18	900
27-05-2021	23	1200
30-05-2021	19	1000
03-06-2021	11	900
06-06-2021	7	1100

NPK Value and ADC Value of Soil

Date	N2(In %)	P(In %)	K(In %)	ADC Value
15-05-2021	3	1.5	2	190
18-05-2021	3.5	1.5	2	280
21-05-2021	3.5	1	2.5	330
24-05-2021	2	1	2.5	550
27-05-2021	3	1.5	2.5	450
30-05-2021	3	1.5	1	510
03-06-2021	3	2	1.5	740
06-06-2021	2	1.5	2	770

[illegible]

