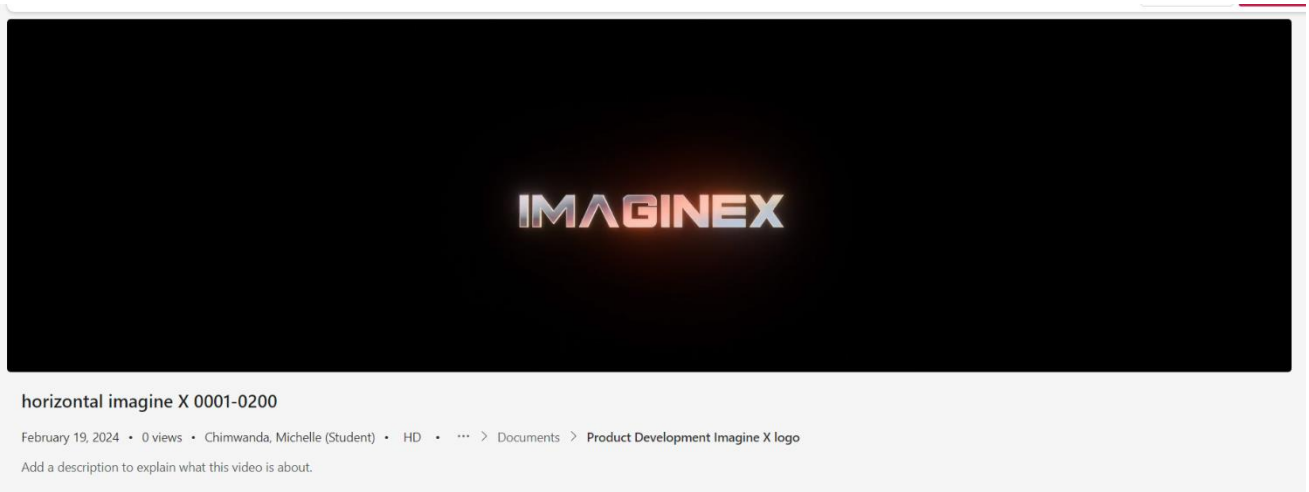
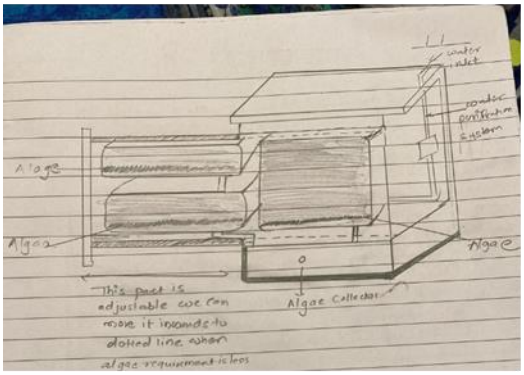
IMAGINEX: Evidence of Work Throughout Project

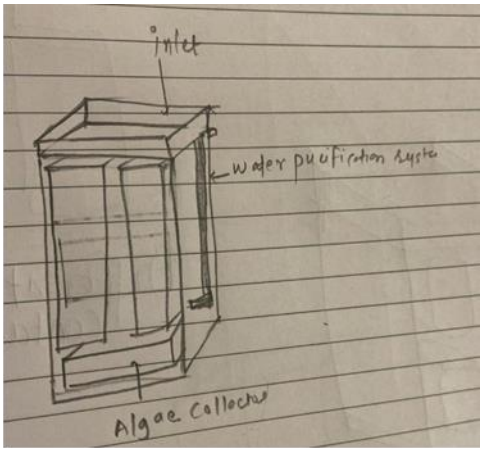
Early Weeks

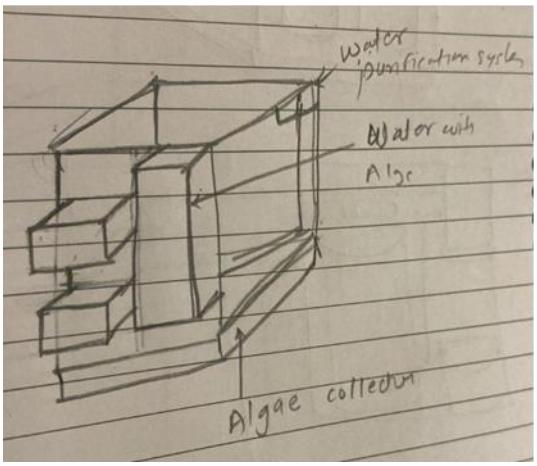
We worked on our group branding and took Belbin tests to assist with role assignments.



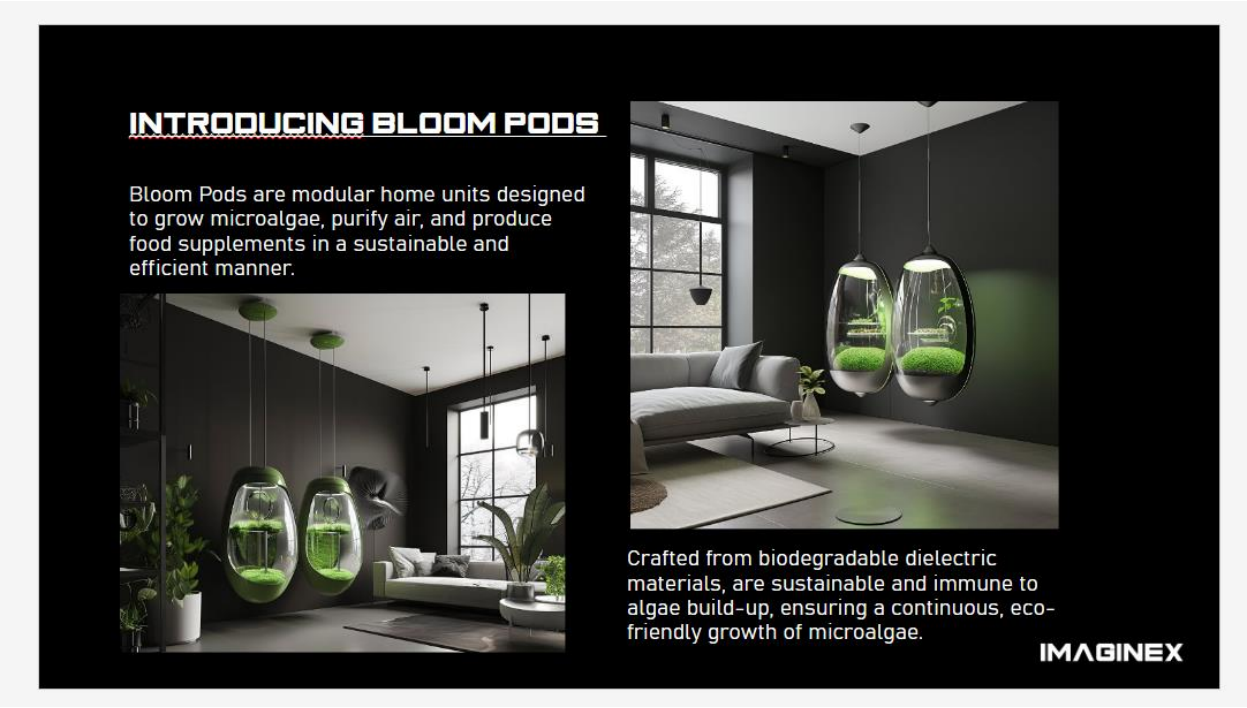
Early Sketches of compact bioreactors. (More were submitted by all group members as seen in screen shots at end of document).





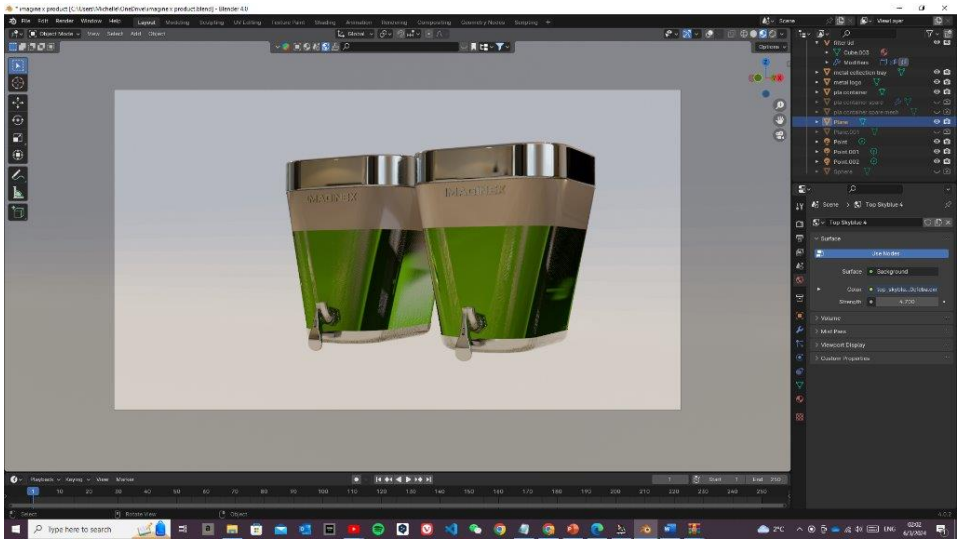


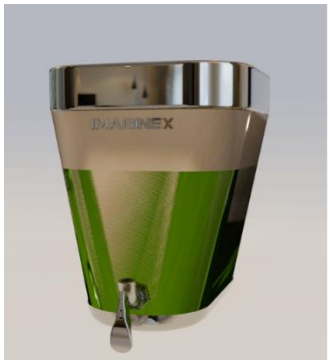
Ai (Mid-journey) was used to visualise unique implementations of bioreactors in an aesthetic way for living spaces.



3D Brainstorming

Various designs were made in Blender 3D. The two designs shown were closer to our initial intended designs of 1-2 litre capacity. They each reached marketing poll stage however were ultimately scrapped.



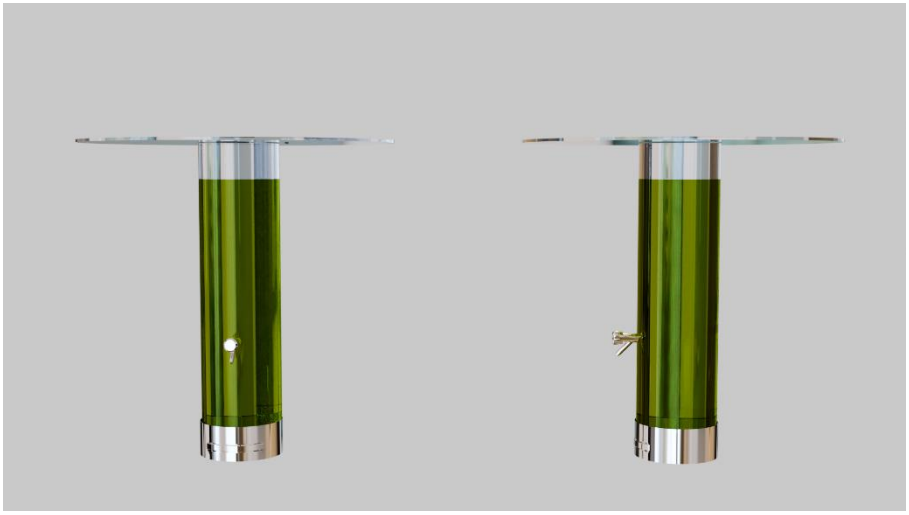


Towards Final Stages

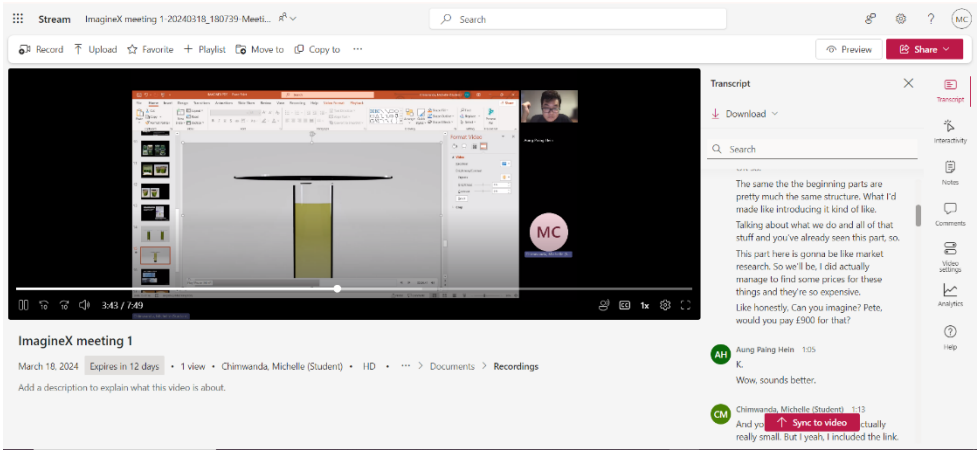
Extensive research on the best materials for the product was used and various designs stemmed from this as seen before.

Property	Glass	Plastic	PLA	PVA	Chitosan
Material Type	Inorganic	Synthetic Organic	Biodegradable Bio-plastic	Synthetic Polymer	Natural Polymer
Source	Sand, Soda Ash, Limestone	Petroleum, Natural Gas	Corn Starch, Sugarcane	Petrochemicals	Exoskeletons of Shellfish
Biodegradability	Not Biodegradable	Depends on Type	Biodegradable	Biodegradable	Biodegradable
Recyclability	Recyclable but limited	Varies by Type	Recyclable	Limited	Not typically recyclable
Composability	Not Compostable	Varies by Type	Compostable	Compostable	Compostable
Transparency	Transparent	Transparent/Opaque	Transparent/Opaque	Transparent	Opaque
Heat Resistance	High	Varies by Type	Moderate	Low	Moderate
Mechanical Strength	High	Varies by Type	Moderate	Low	Moderate
Chemical Resistance	Resistant to chemicals	Varies by Type	Sensitive to some chemicals	Sensitive to water	Sensitive to acids
Usage	Bottles, Windows, Labware	Packaging, Containers	Packaging, 3D Printing	Soluble Support Material	Wound Dressings, Scaffolds
Environmental Impact	Non-renewable, resource-intensive	Resource-intensive	Lower environmental impact	Lower environmental impact	Lower environmental impact

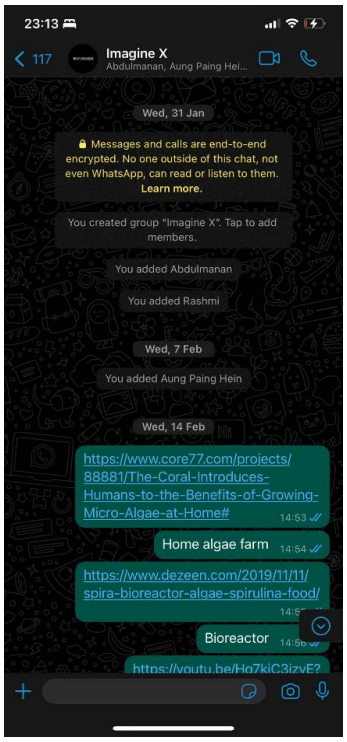
Images of the final product design made in blender. At this stage HOQ was being developed and the PDS was amended to match the new and final concept.

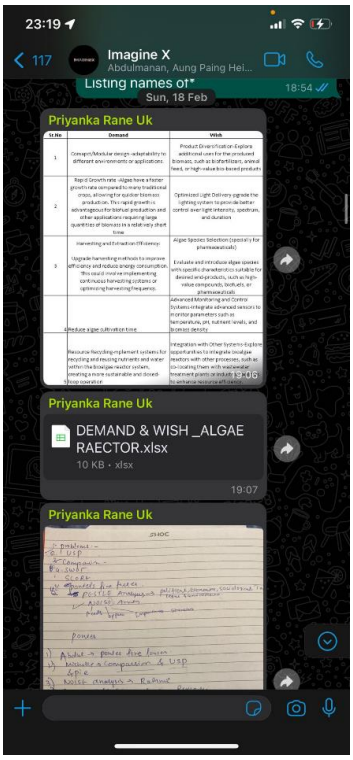


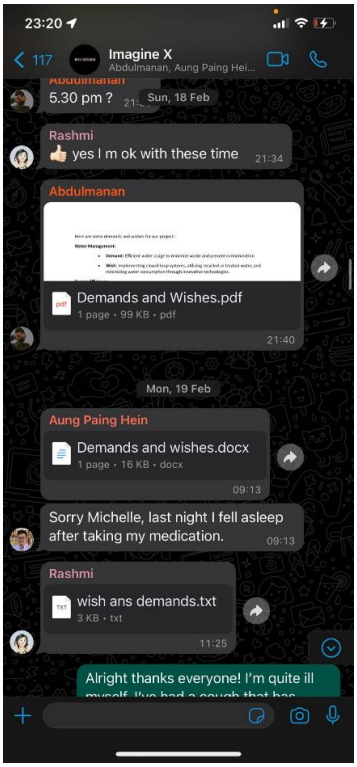
We had recorded meetings on a weekly basis. The earlier links for these recordings have expired so no screenshot is available for them.

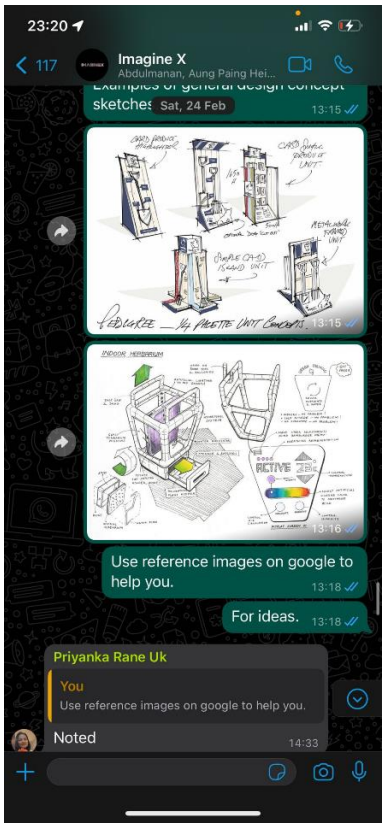


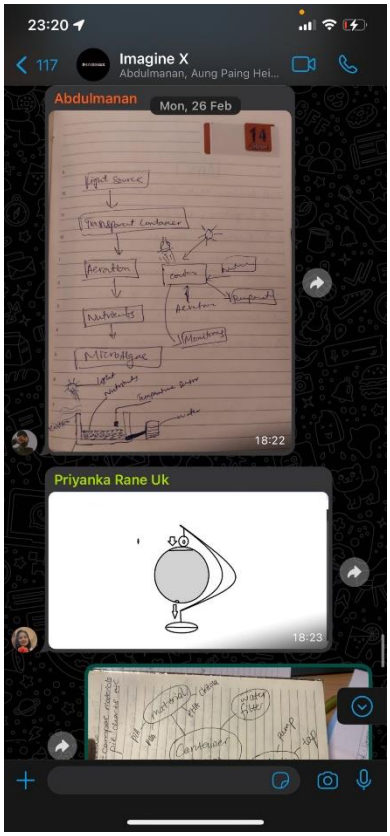
<u>WhatsApp Group Screenshots:</u> These screenshots show snippets of the consistent partcipation and effort put by all group members throughout the semester. Everyone helped in various tasks and where they could not help they focused on contributting where their strengths lie. This allowed us to make something we are proud of.

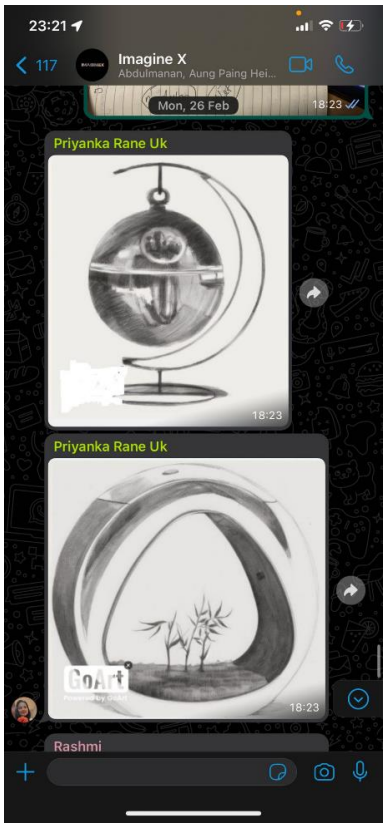


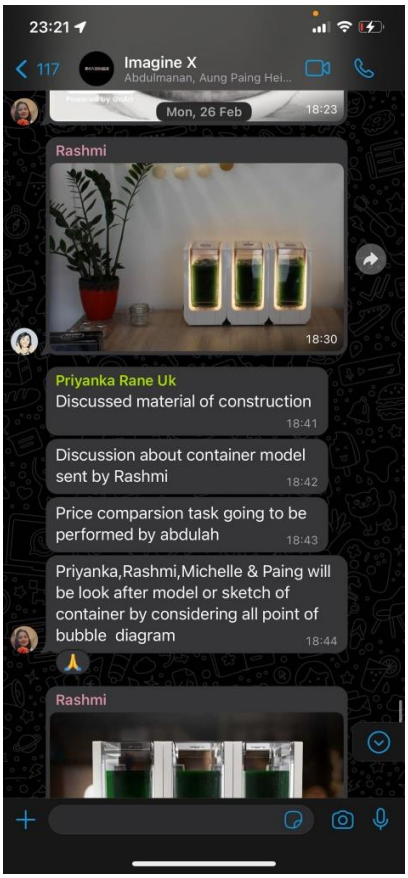


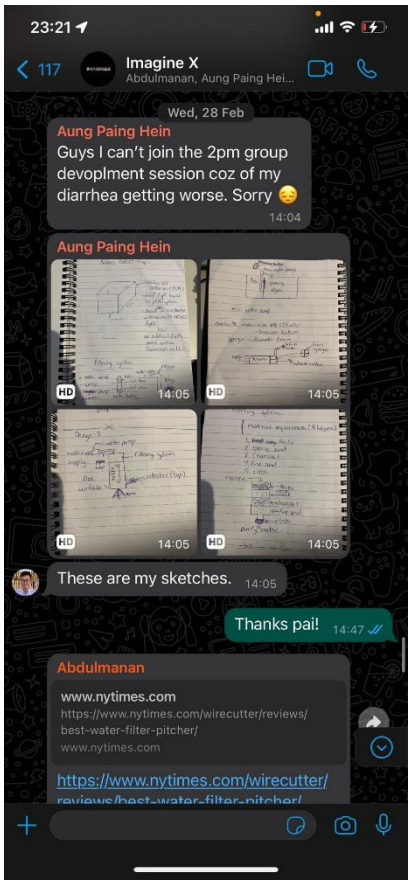


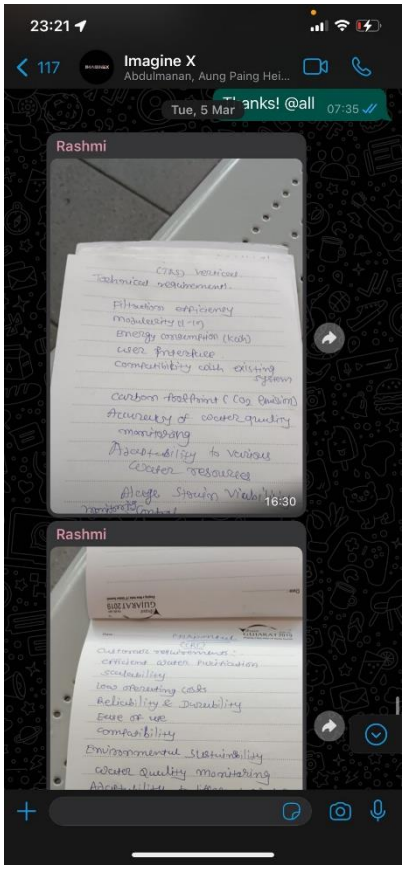


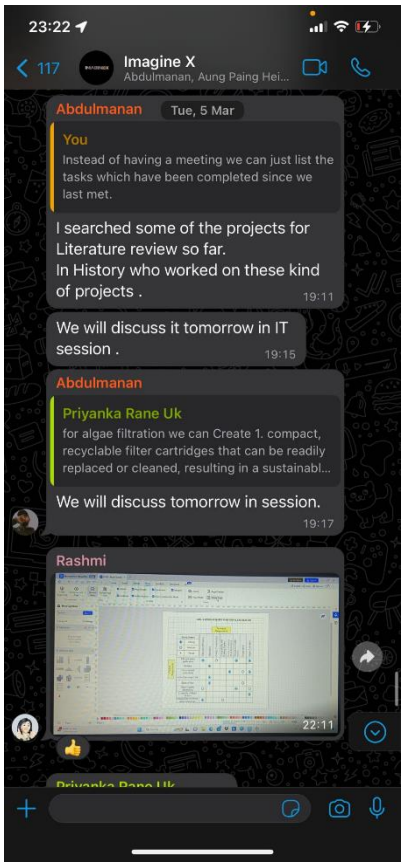


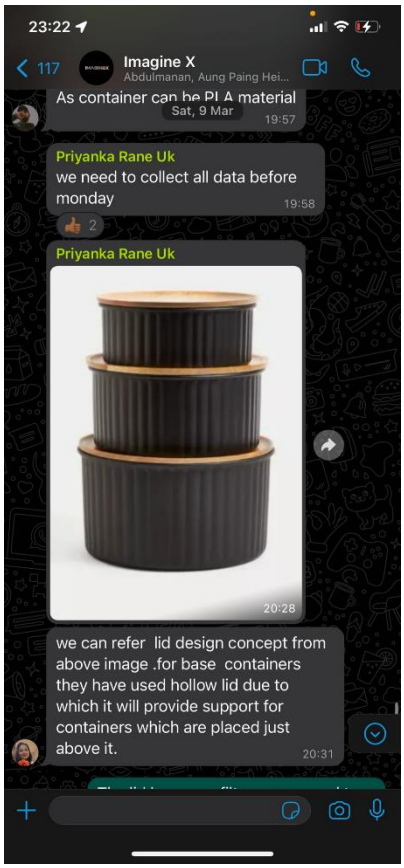


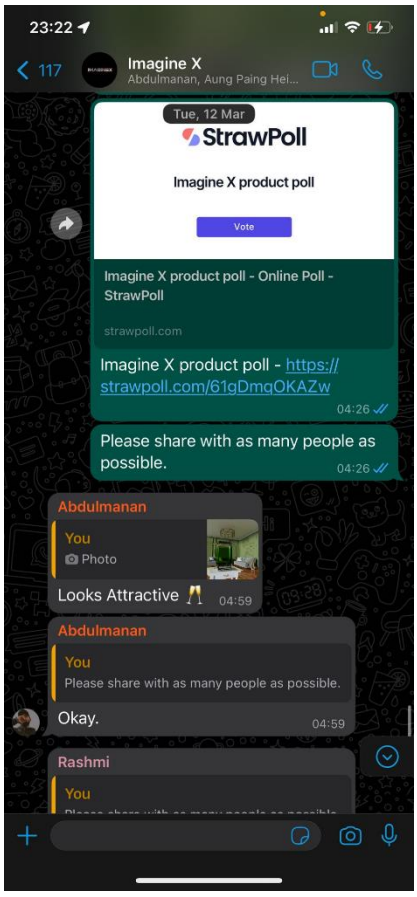

23:21
117
Imagine X
Abdulmanan, Aung Paing Hei...
Mon, 26 Feb
18:23
Rashmi
18:30
Priyanka Rane Uk
Discussed material of construction
18:41
Discussion about container model sent by Rashmi
18:42
Price comparsion task going to be performed by abdulah
18:43
Priyanka,Rashmi,Michelle & Paing will be look after model or sketch of container by considering all point of bubble diagram
18:44
Rashmi


23:21
117
Imagine X
Abdulmanan, Aung Paing Hei...
Wed, 28 Feb
Aung Paing Hein
Guys I can't join the 2pm group devoplment session coz of my diarrhea getting worse. Sorry
14:04
Aung Paing Hein
14:05
14:05
14:05
14:05
These are my sketches.
14:05
Thanks pai!
14:47
Abdulmanan
www.nytimes.com
https://www.nytimes.com/wirecutter/reviews/best-water-filter-pitcher/
www.nytimes.com
https://www.nytimes.com/wirecutter/


23:21
117
Imagine X
Abdulmanan, Aung Paing Hei...
Tue, 5 Mar
anks! @all
07:35
Rashmi
16:30
Rashmi


23:22
117
Imagine X
Abdulmanan, Aung Paing Hei...
Abdulmanan
Tue, 5 Mar
You
Instead of having a meeting we can just list the tasks which have been completed since we last met.
I searched some of the projects for Literature review so far.
In History who worked on these kind of projects .
19:11
We will discuss it tomorrow in IT session .
19:15
Abdulmanan
Priyanka Rane Uk
for algae filtration we can Create 1. compact, recyclable filter cartridges that can be readily replaced or cleaned, resulting in a sustainabl...
We will discuss tomorrow in session.
19:17
Rashmi
22:11


23:22
117
Imagine X
Abdulmanan, Aung Paing Hei...
As container can be PLA material
Sat, 9 Mar
19:57
Priyanka Rane Uk
we need to collect all data before monday
19:58
2
Priyanka Rane Uk
20:28
we can refer lid design concept from above image .for base containers they have used hollow lid due to which it will provide support for containers which are placed just above it.
20:31


23:22
117
Imagine X
Abdulmanan, Aung Paing Hei...
Tue, 12 Mar
StrawPoll
Imagine X product poll
Vote
Imagine X product poll - Online Poll - StrawPoll
strawpoll.com
Imagine X product poll - https://strawpoll.com/61gDmqOKAZw
04:26
Please share with as many people as possible.
04:26
Abdulmanan
You
Photo
Looks Attractive
04:59
Abdulmanan
You
Please share with as many people as possible.
Okay.
04:59
Rashmi
You