

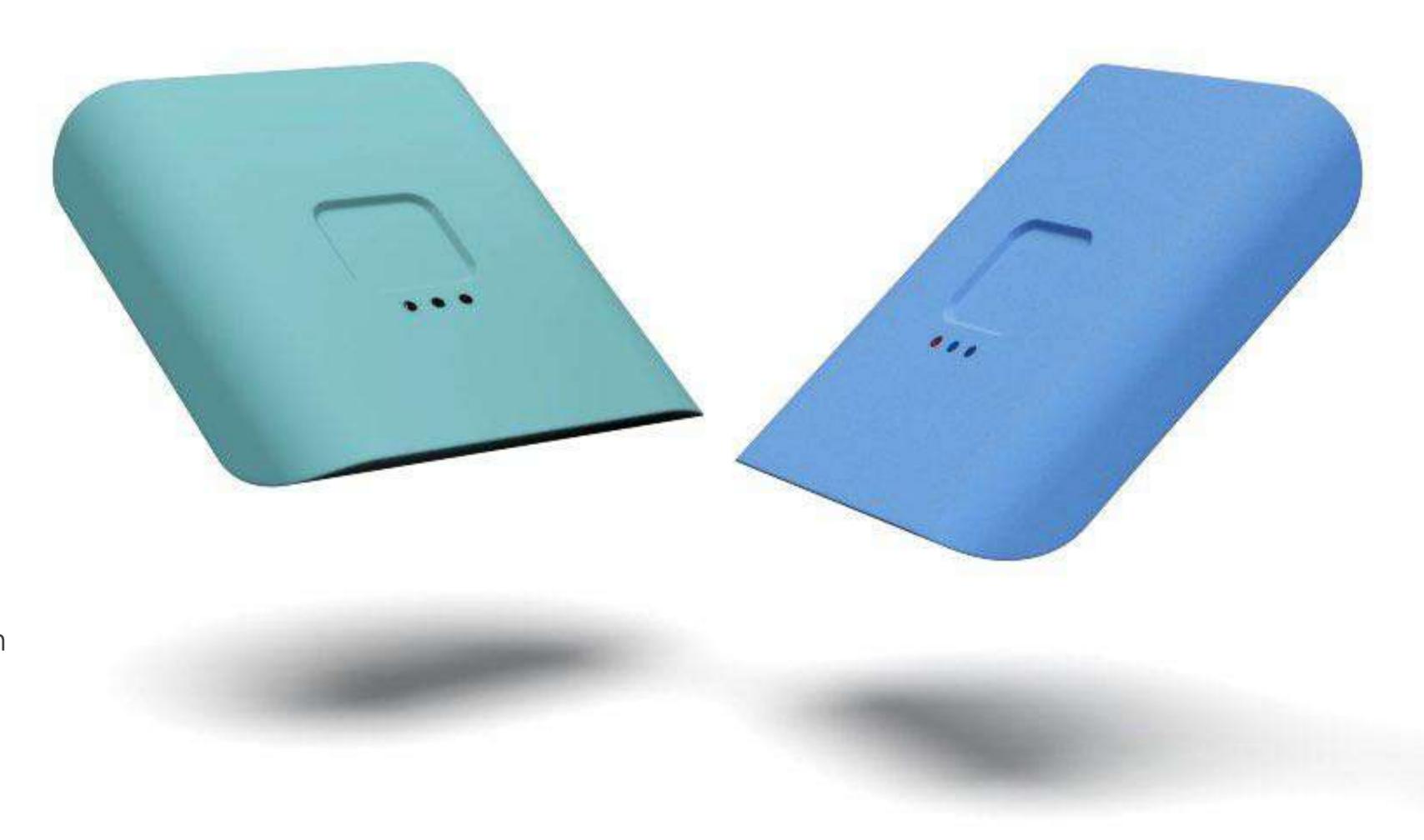
Hemang Parekh

Industrial design Portfolio

tracko

An IOT enabled tracking device that alerts the user when the desired railway or bus stop is reached, so they don't miss the station/stop.

Can also act as a silent morning alarm such that it can be kept in the pillow



Understanding the context of the Indian railways

People always used soothing the rest their head on something while mostly a bag they are carrying or inflatable pillows.

They always tell their fellow passengers to wake them up when their destination station.







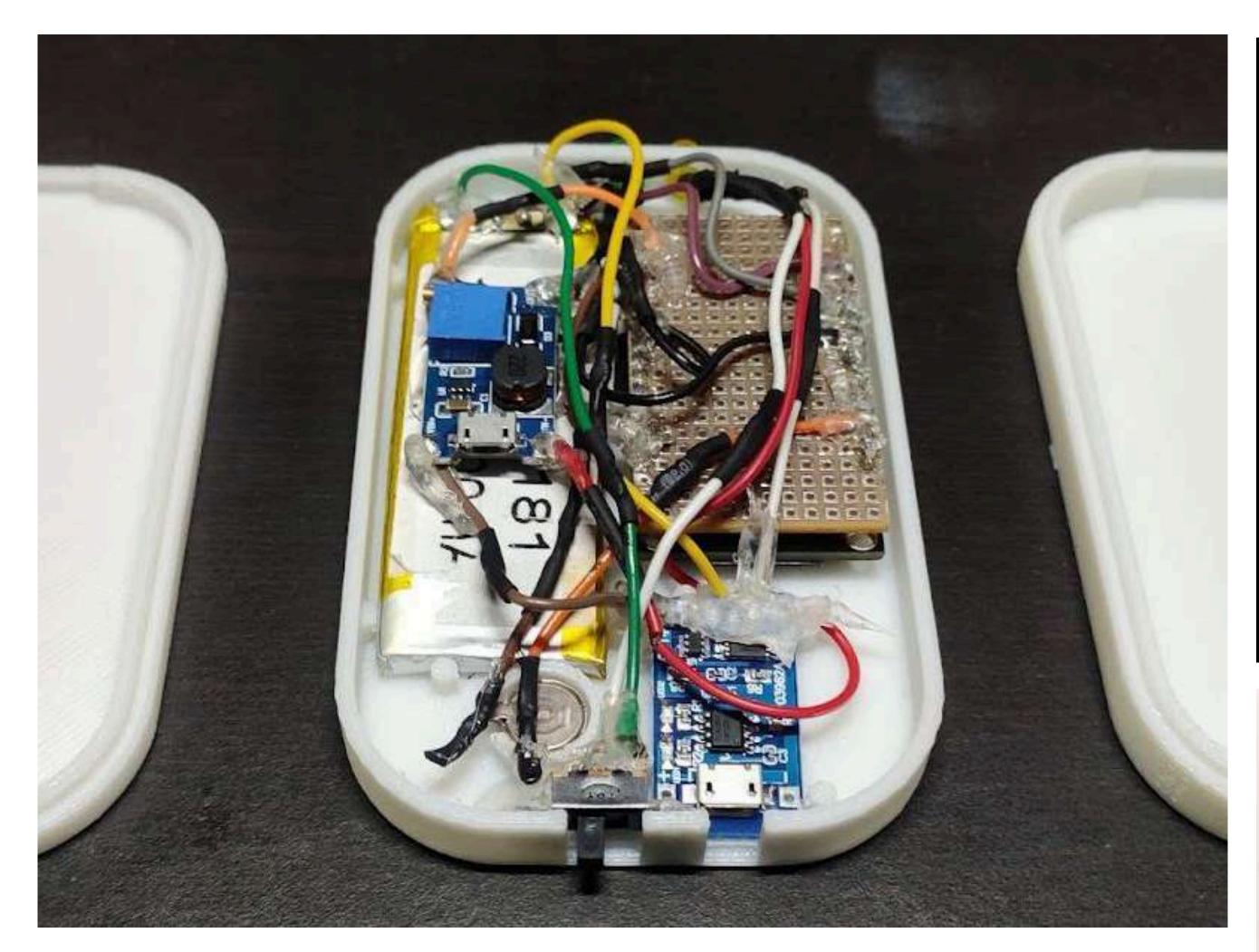




Design brief

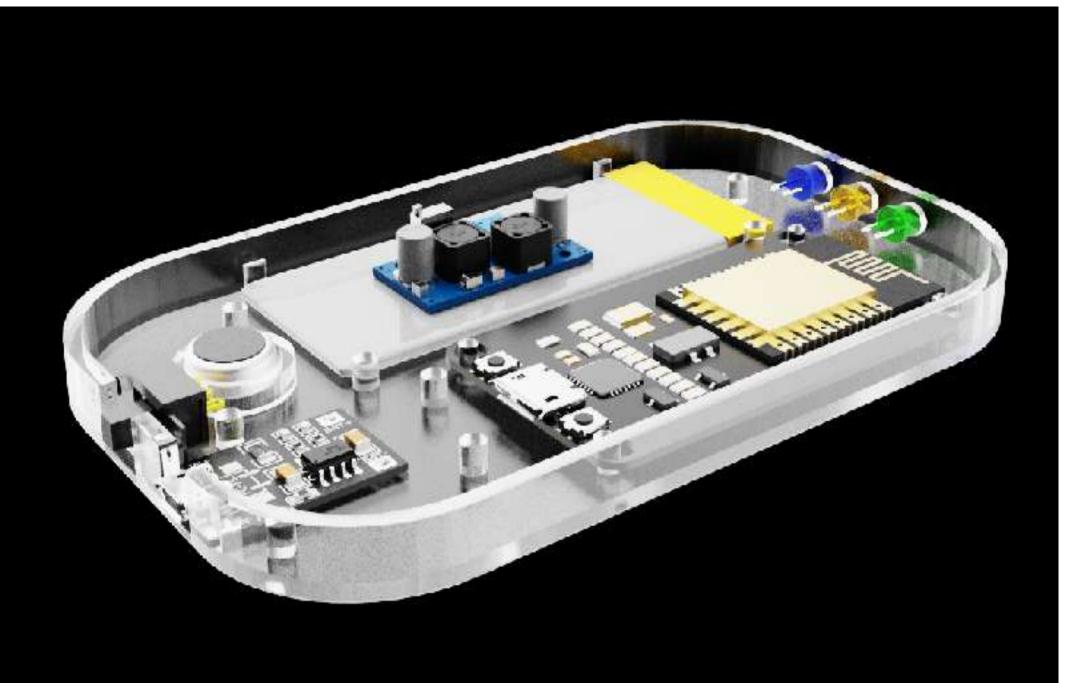
How might we design an IOT based alarm for people on long journeys that will wake them up before the station arrives based on the GPS location and not time.

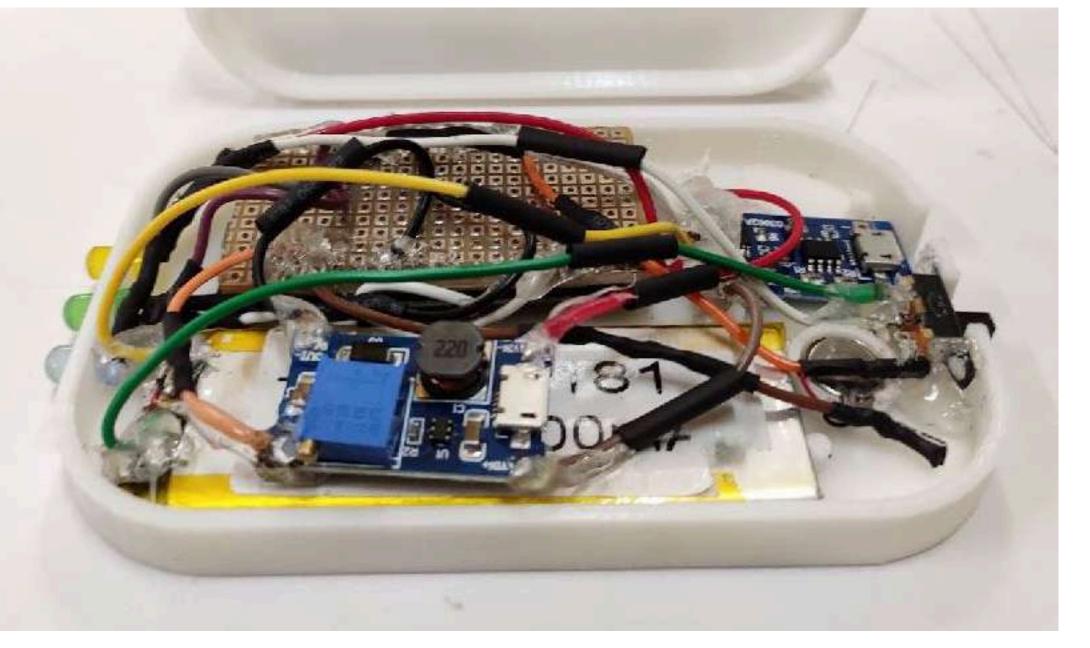
Making a proof of concept unit - Batter Pack The components used Suetohes Motors Chothers Chargin Step-up motor (rotational) MCU

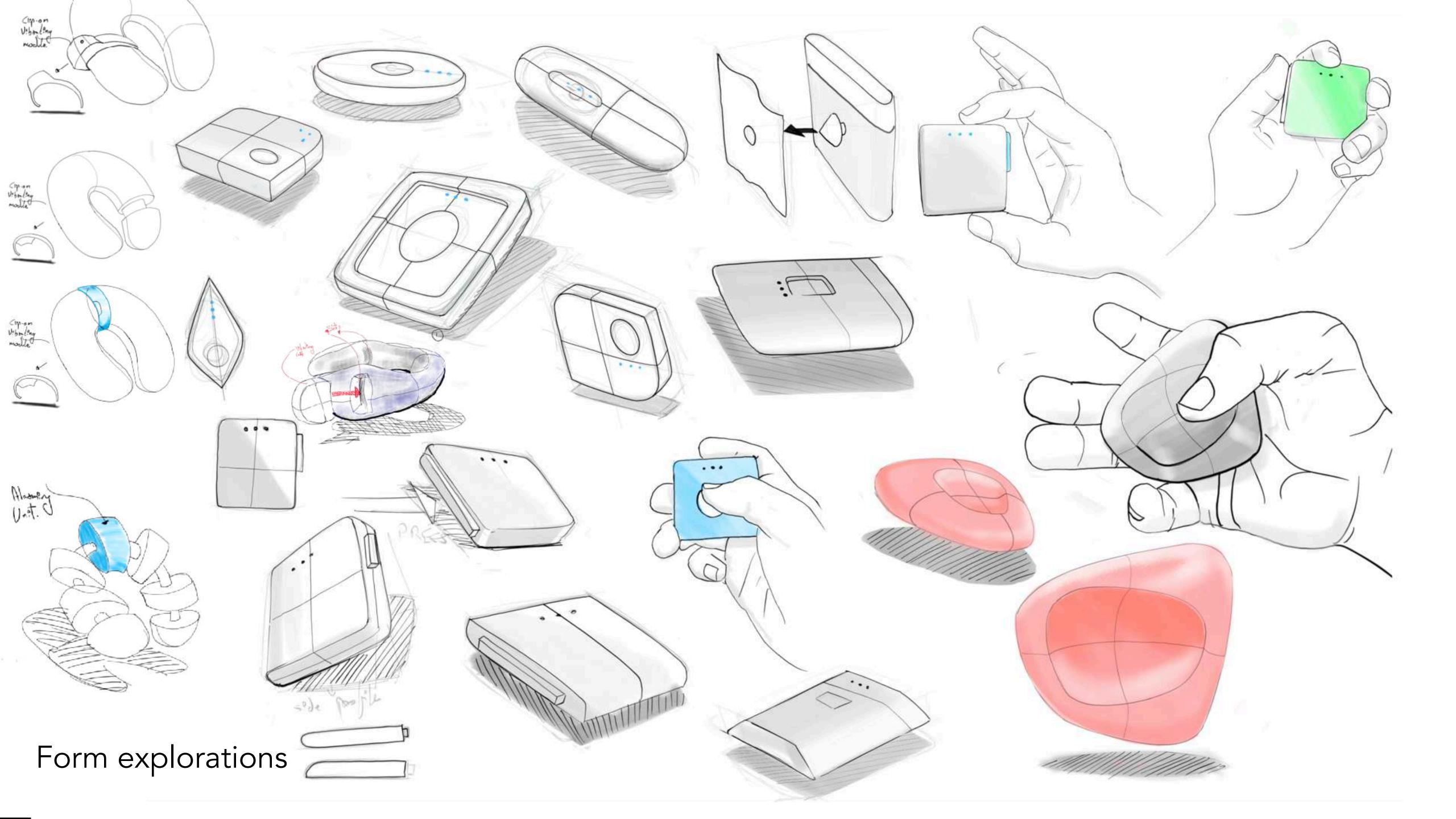




Used the existing components such as the bluetooth module and battery the production models will be shrieked to the 1/3 the size













Final Selected form



Medi Go

An health kiosk designed for urban space and corporate offices which helps the user to keep in check the basic health parameters such as blood pressure, BMI, blood oxygen

Project with: Srujal Tawade and Shardul Dugad



Gaps

- · Not conveying emotion, hope & comfort to patients
- · Data and hardware security
- · Public spaces don't have kiosks
- Not user friendly
- · Weakening support overtime
- · People getting anxious in public environment
- Extreme cost
- Bulky & ugly
- · Human Attention required
- · Tedious process & complex UI



What क्या



Health checkup

- · User record and health analysis
- Suggestions to patient
- Vaccinations
- · Mental Health
- · Day to Day checkups
- · Order Medicines
- · Get prescriptions

Health kiosk

How कैसे



SMART

- APP To get notification for regular health checkup
- · Get online certificates , Prescriptions & medicine suggestions etc.



- People who has just been diagnosed with diseases
- Diabetes
- · Blood Pressure
- · Cold
- · Fever
- · Asthma
- Jaundice

Why place it in corporate offices?

The biggest reason for heart related problems is high blood pressure and high blood pressure is caused due to high stress level in day to day life in offices and unhealthy eating habits.

And high/low blood pressure if neglected can convert in to other deadly health problems and but if kept in check and proper preventive steps are taken it can very well be avoided. All, one has to do is keep regular check on their basic health parameters.

In today's busy life filled with deadlines no one really gets time to go to a doctor for regular test and also do not want to pay for the fees.

Hence, if the process of checking basic health vitals easier and much more approachable it will help promote a healthy lifestyle among the employees About 33% urban and 25% rural
Indians are hypertensive. Of
these, 25% rural and 42% urban
Indians are aware of their
hypertensive status. Only 25%
rural and 38% of urban Indians
are being treated for
hypertension. One-tenth of rural
and one-fifth of urban Indian
hypertensive population have
their BP under control.

Experience

- · Hassle Free
- Involves Hope & Emotion
- Easy to navigate

Potential User

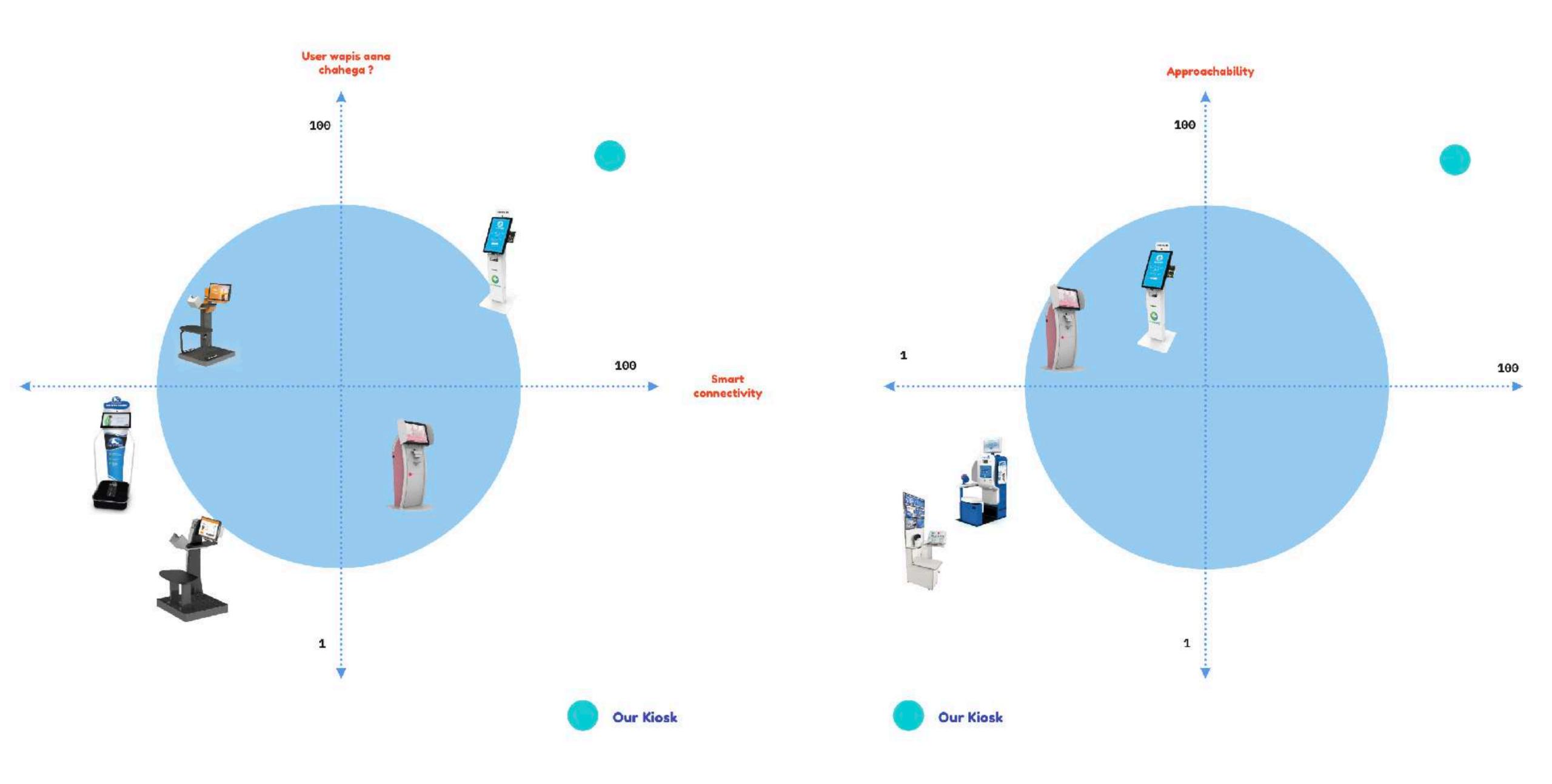
- Employees of any institution
- Students on campus

Stress involved

- Nervousness
- Fear of Awareness in process
- Remembering Security keys
- Remembering Data Shared

Efficiency

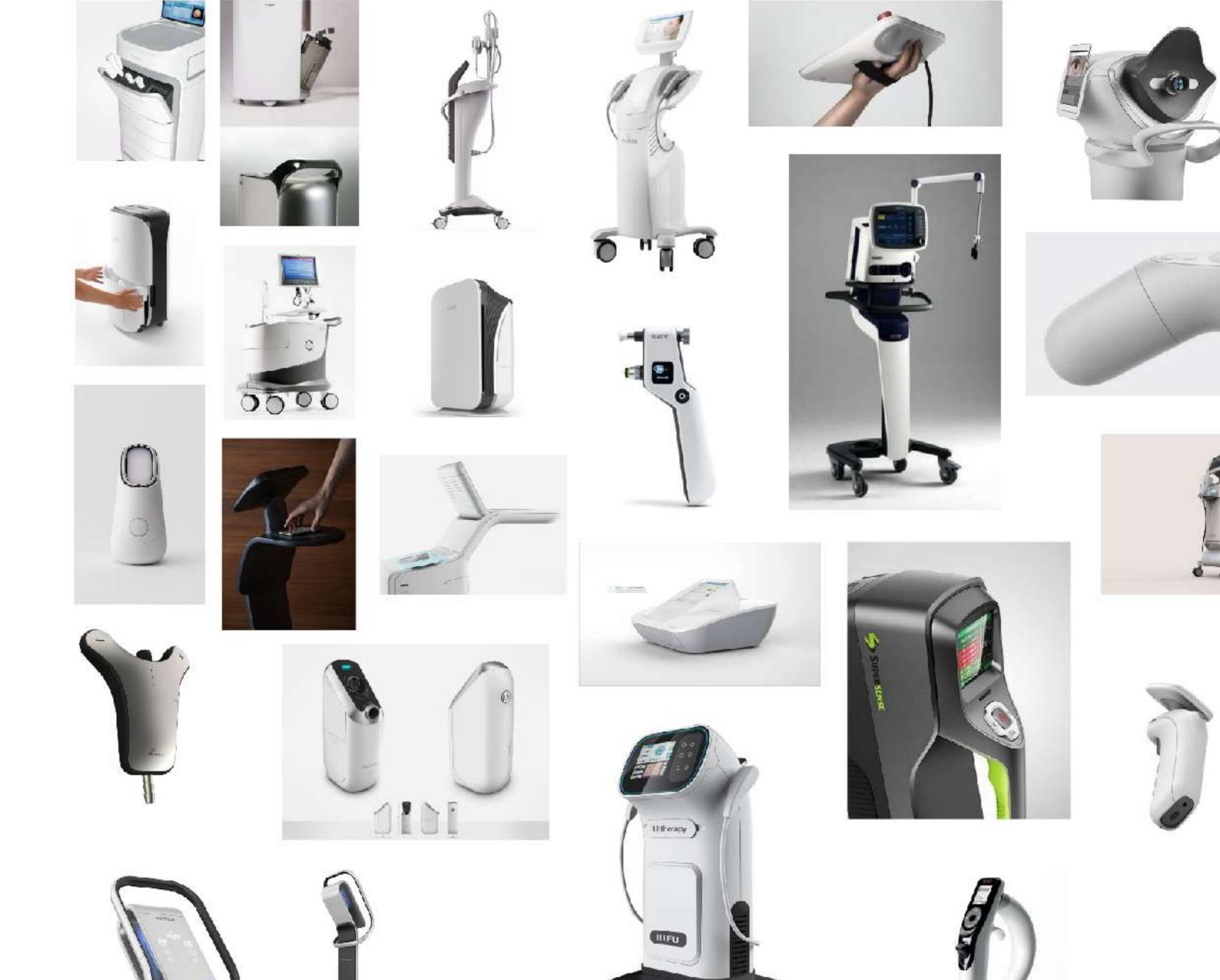
- · Enhanced experience
- · Quick & Crisp Process
- · Smart connectivity
- Accuracy of info



PROCESS KIOSK; greets him / her RETO Card OR (Company) -Asks to scan ID KIOSK greets Welcome to the user with name All tests Select Few . B.P. - Pulse · BMI . Blood oxygen Posture poster Test Starts Instruction like not until the light turns Test Ends The reading and Proper indication is displayed Result Display A copy of this An option to read has been sent about the basic to your phone THANK YOU **Home Screen** (ready for next user)

Medi Go Features

- Medical History
- Self Assessment
- Remote consultation
- Patient registration
- Feedback
- Accessibility
- Efficiency
- Safety
- Discrepancy in prescription
- · Quick and cost efficient



























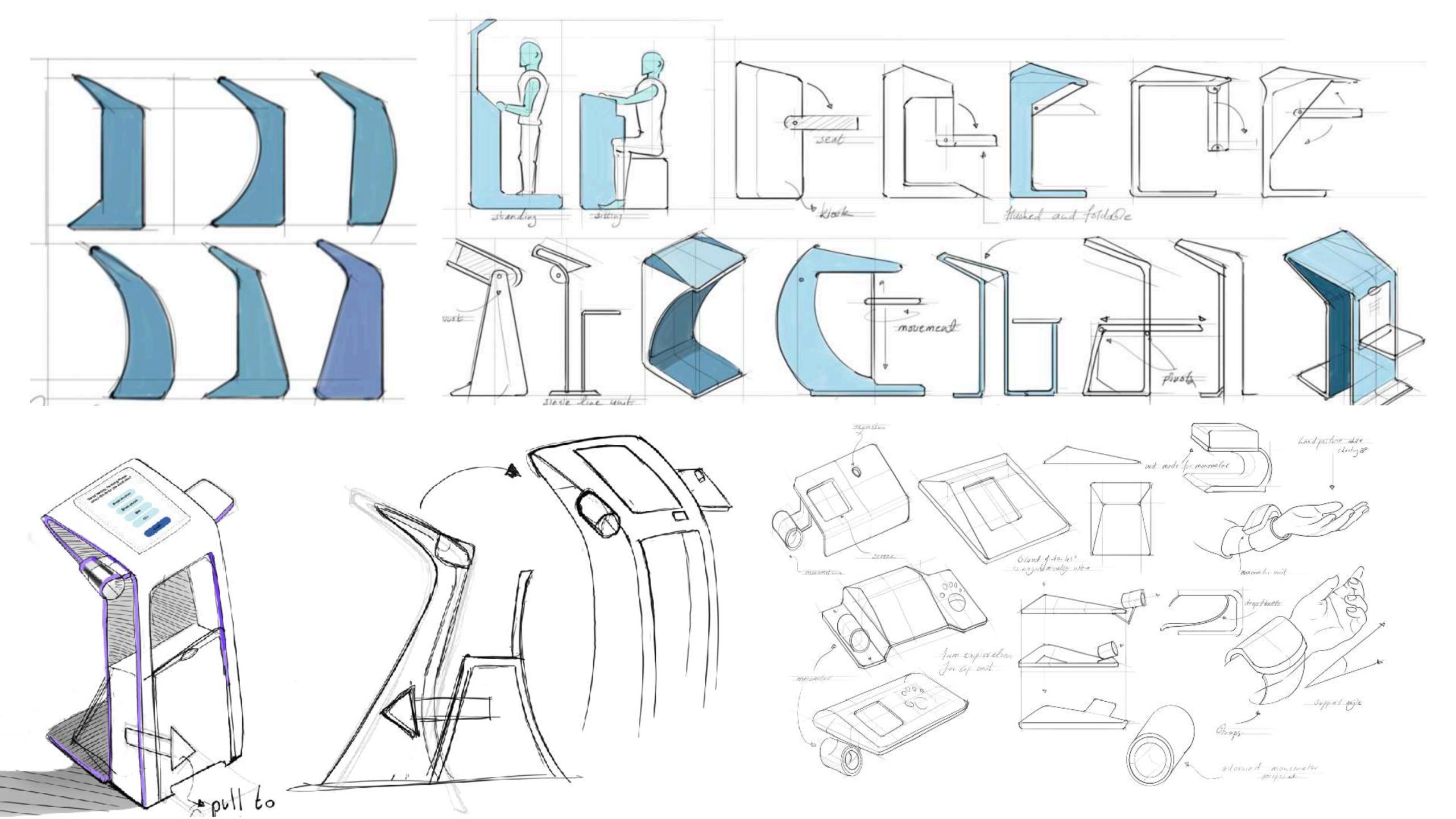


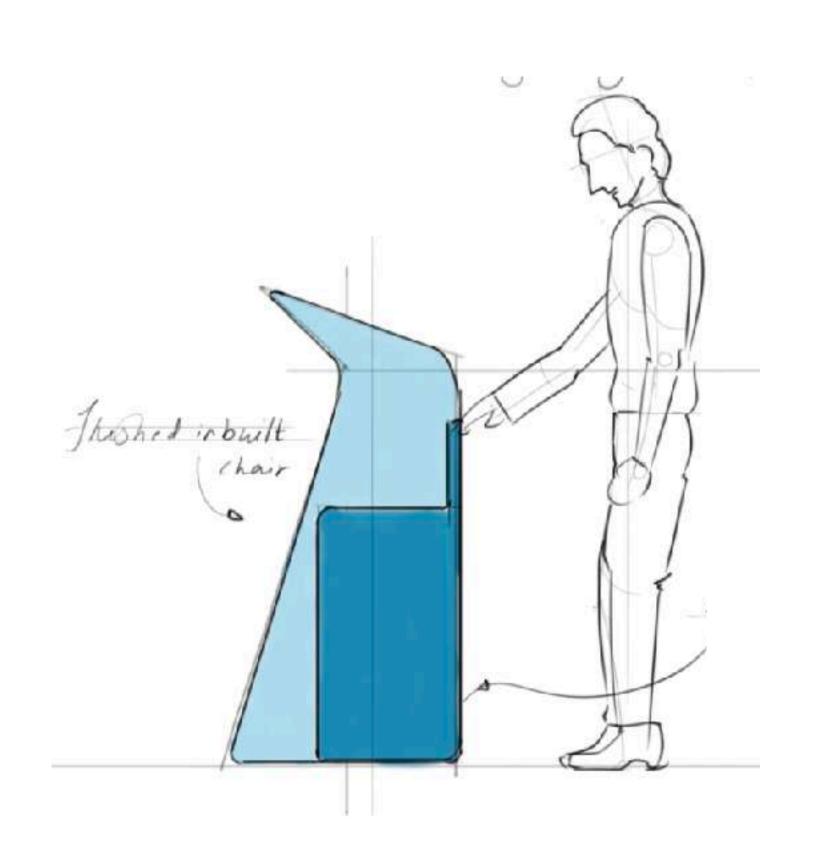


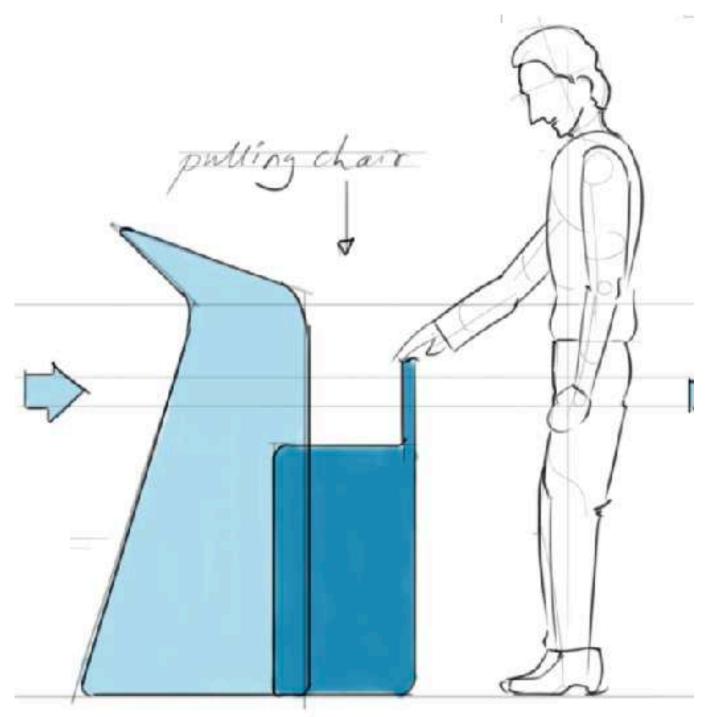


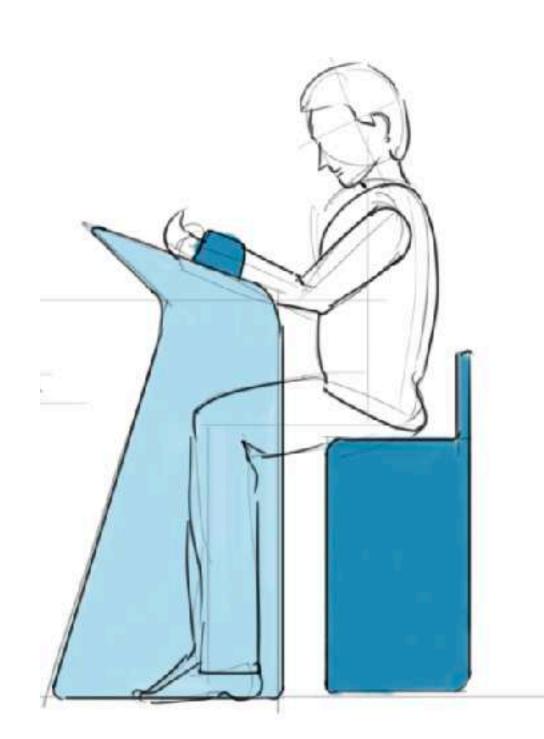


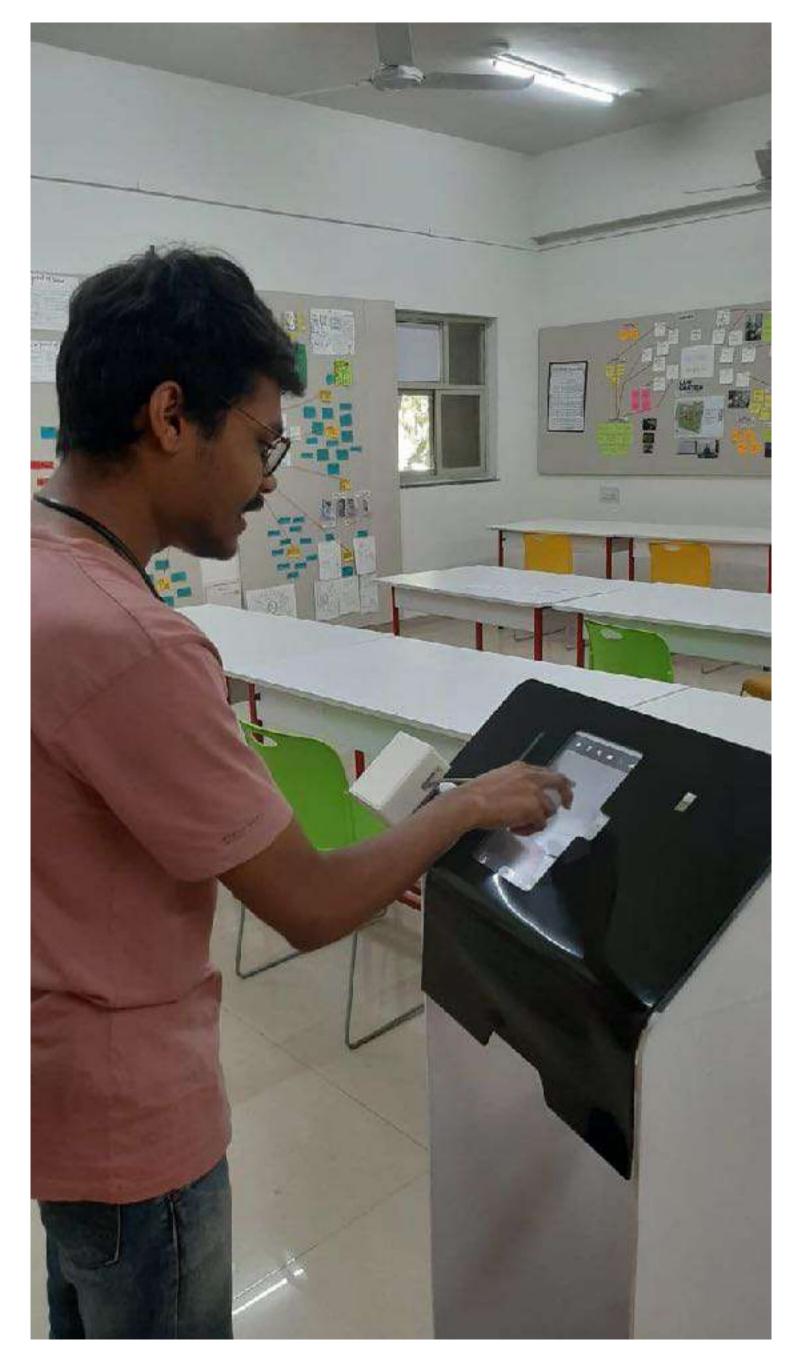


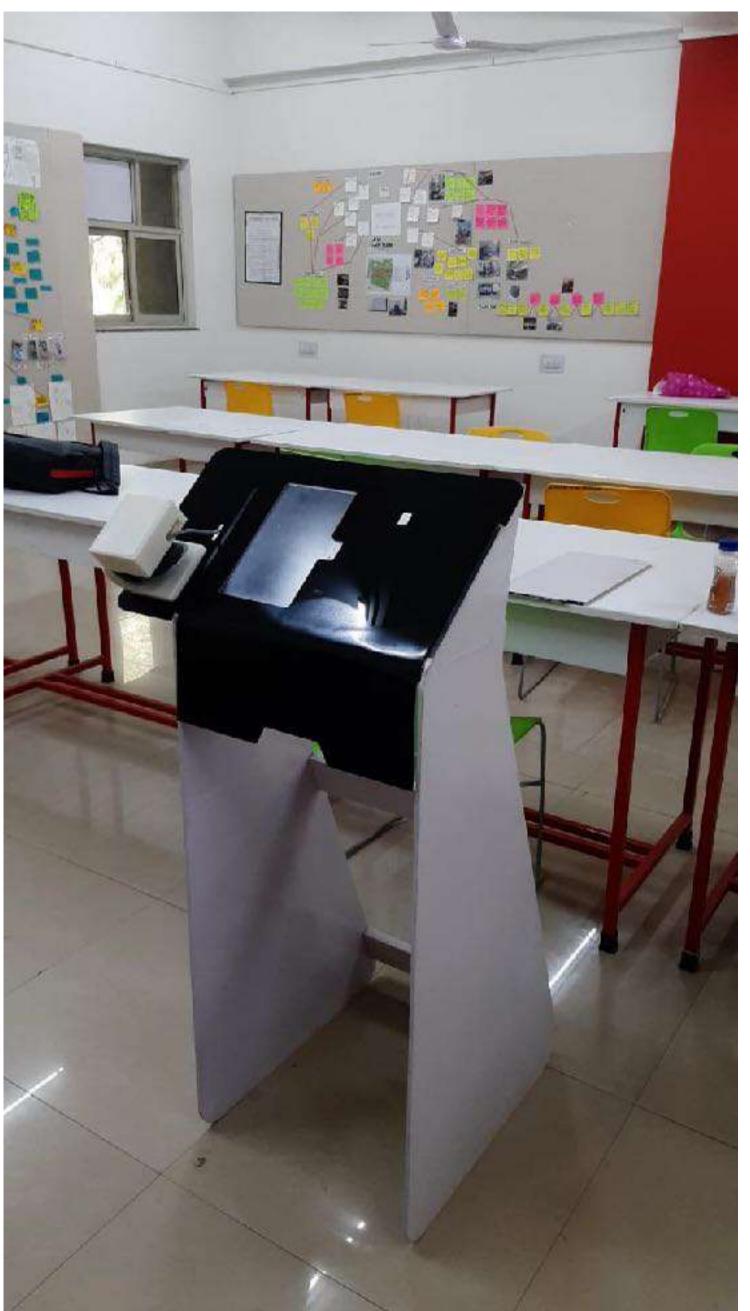












1st Prototype

To understand the form and ergonomics better we made the prototype out of 8mm laser cut MDF and acrylic sheet which we bent to give it a seamless curve ion the front and spare paint the whole unit we tried to get as close as our proposal unit











१ क्या

How might we design furniture (seats) to make everyday cleaning of lecture areas effortless for the cleaners

२ क्यूँ

To make the cleaning process quicker and easier.

३ कैसे

Na rahegi bas na bajegi basuri.

४ कब

Everyday in the morning when the cleaners clean the class.

५ कौन

For cleaners kaka and kaki Age- above 30

६ कहाँ

In design studios, classrooms and lecture area

७ कितना

Enough to accommodate 40-45 Students



to condese floor space D gge occupied ใกรp. หักฯ Extra ordinary Mohole Foldens Space jon densing Collopasable tactile Detail Organic oriented forms 4 spaces Des sona Moning Doso ploned and care free Sensitive to Objects in space Duel purpose

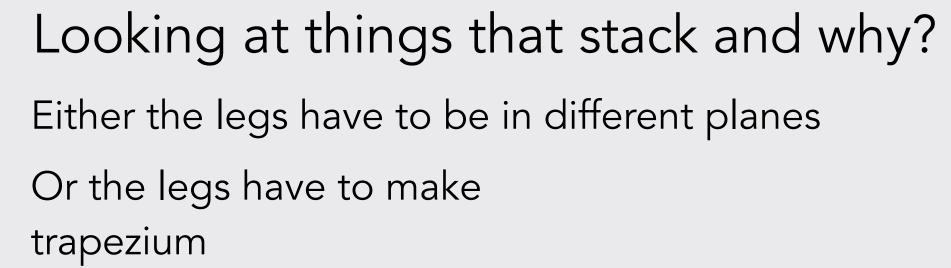










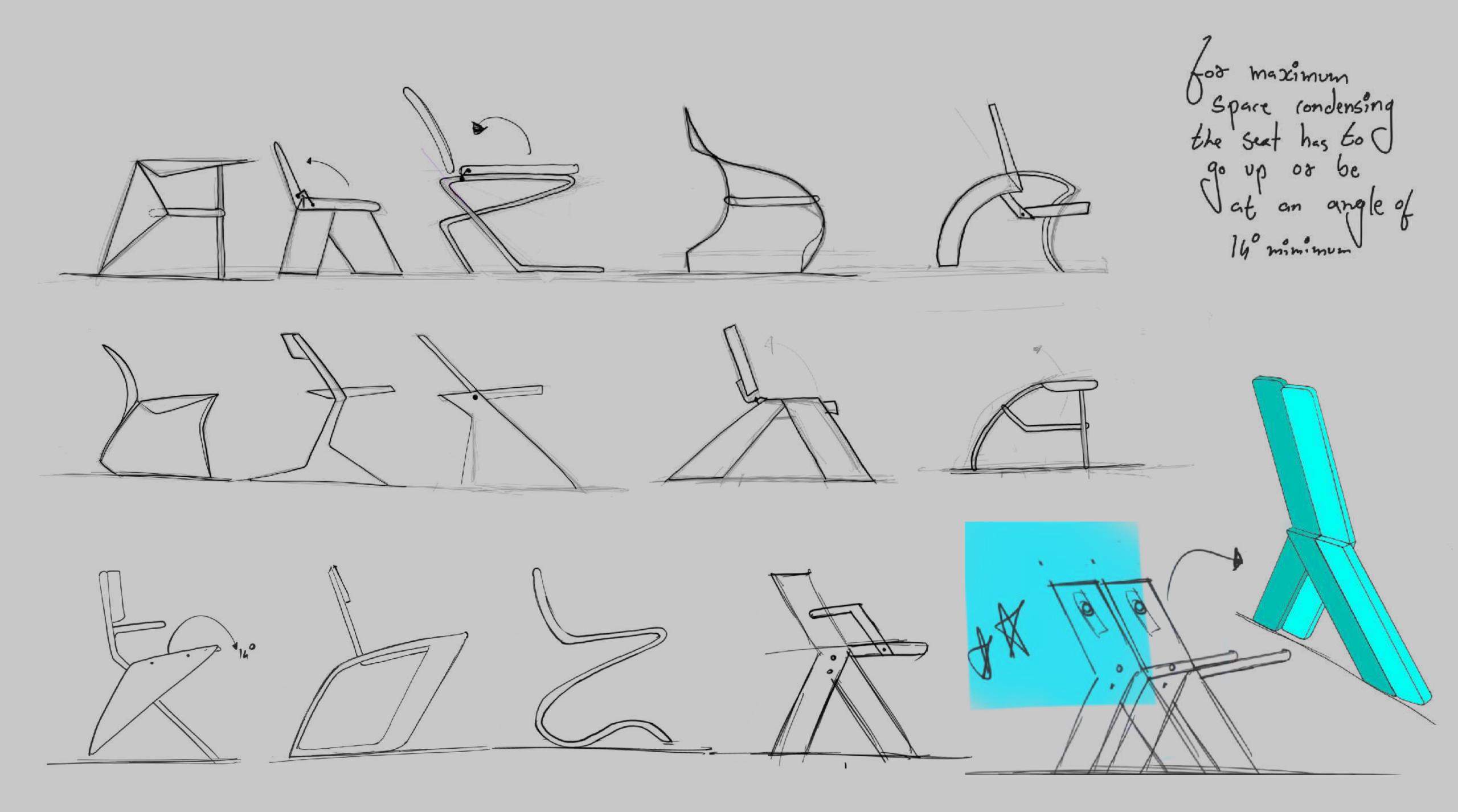


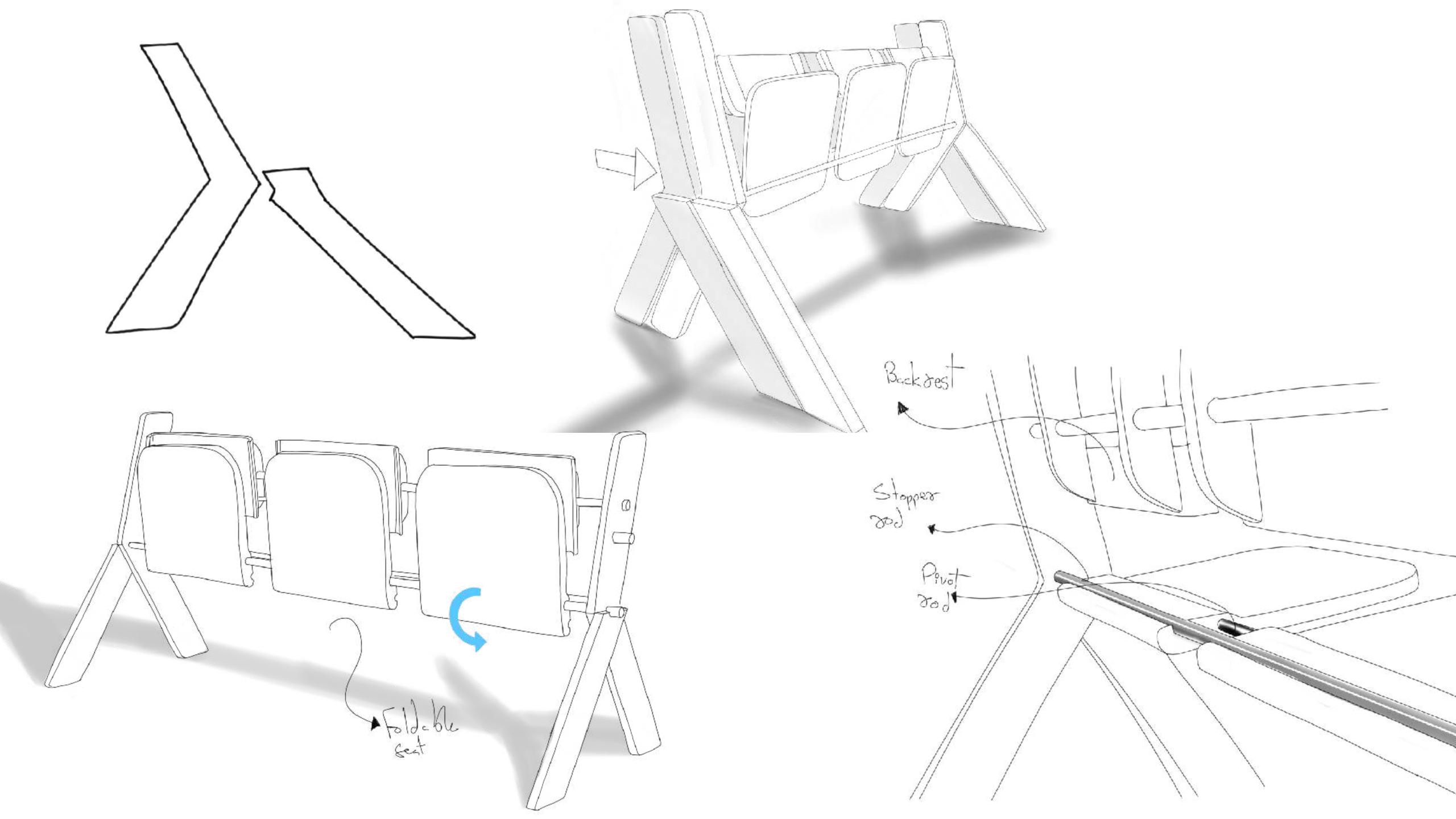


















Repurposing Discarded PVC pipes on Nirma University campus

We used the discarded pvc pipes and taking the advantage of in being a thermoplastic we remolded it into an array of usable products which can be easily manufactured and do not at all look like are made from discarded pvc pipes

Discarded PVC pipes









The main reason for discarding PVC pipes are punctures are blockage which cause leakage and hence an entire section(3-4 feet) has to be discarded and replaced.

We saw an opportunity here and wanted to reclaim the material and repurpose it into some other product and reduce PVC going to landfills

Exploring the material

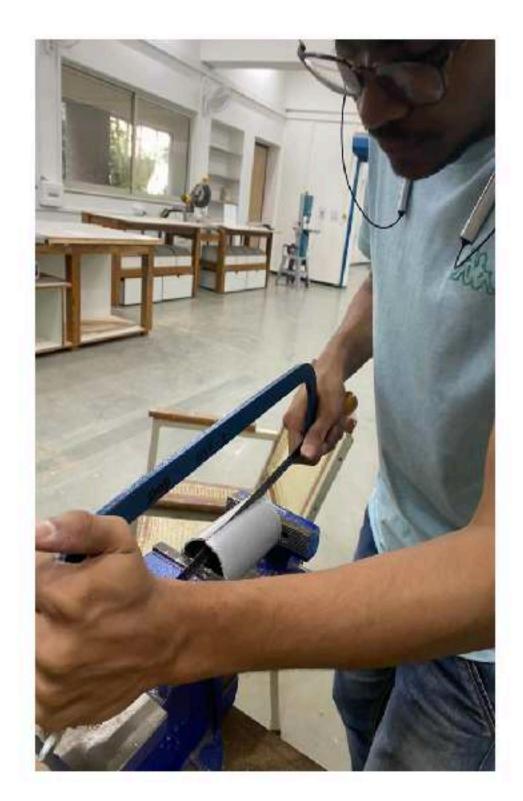




Bending the flattened pipe according to the design. The type of PVC pipe used was PVC - O which was softer and melts at lower temperature as compared to other types of pipes. As seen in the video after bending the pipe upon being exposed to the heat again it tends to go back to the original form.

Casabiner light dispersion aloth hanger window grills of seclaimed Puc Bouncing Coys Joor-stopper V Mass comp. inscence holder Espe dispenses Sound producting boys

Making jumping toys



Cutting the PVC pipe vertically Heating up the pipe

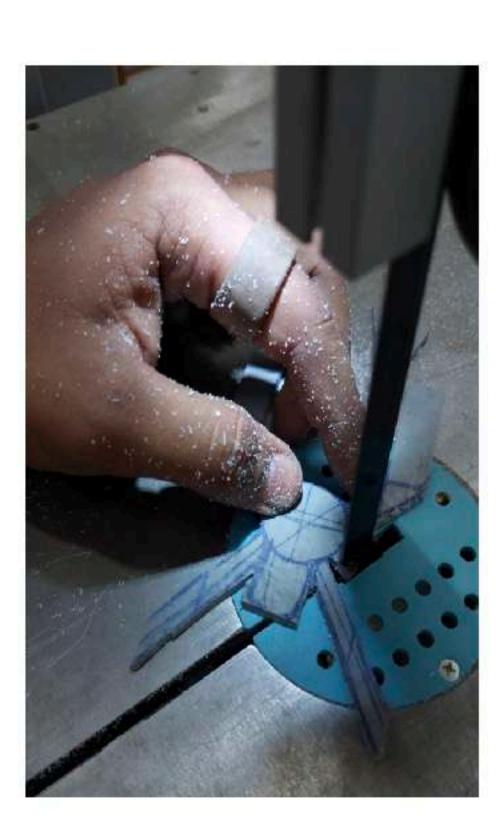




Flattened pipe

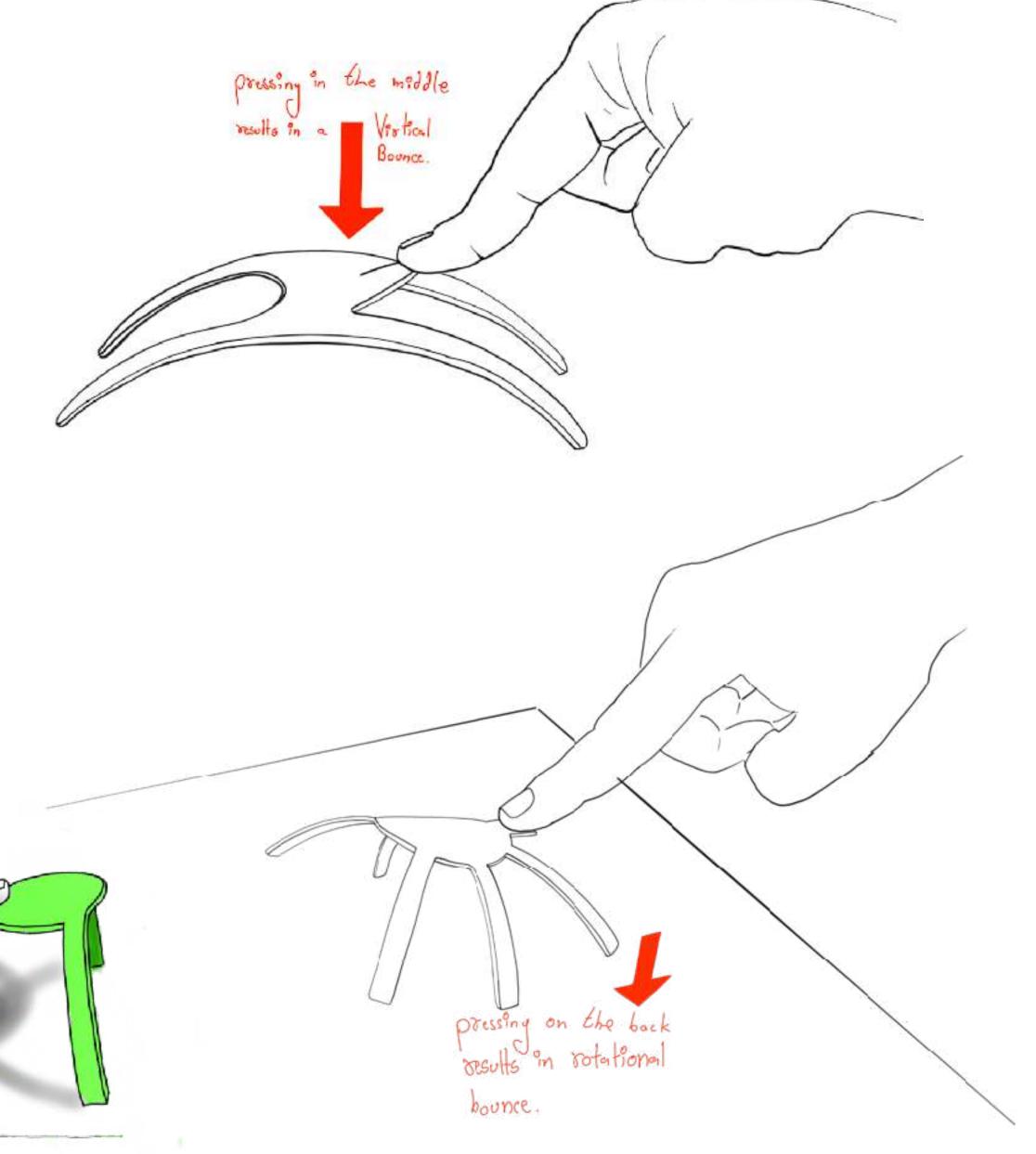


Laying out the design Cutting the design

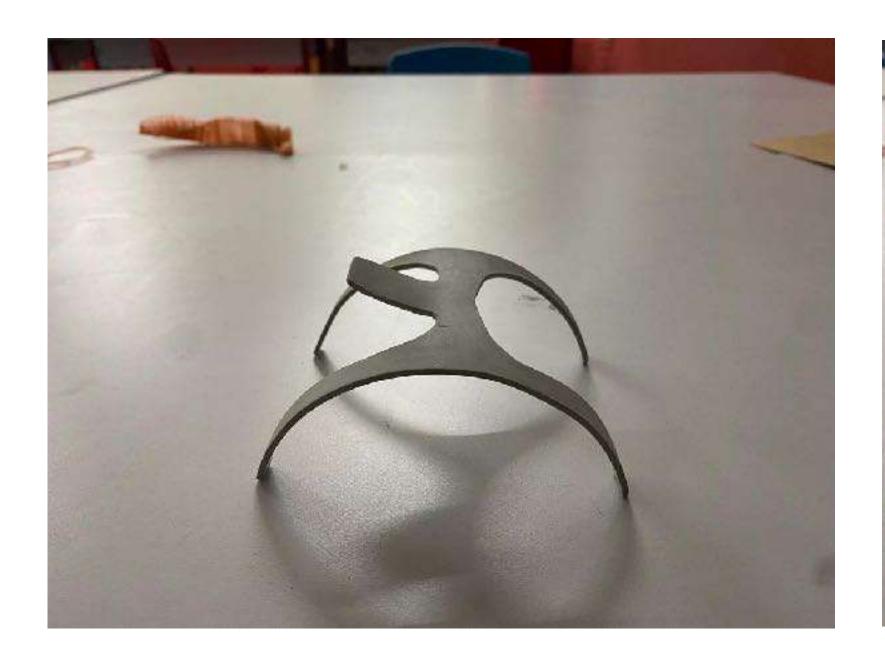


Understanding jumping patterns

We learned that the jump depends on the design and the point of pressing such as if it were to be pressed in the middle it would bounce vertically upwards and if pressed at the back it tends to bounce ahead and front flip as shown in the next slides



Pressure at ¼ length makes the toy hop forward like a FROG



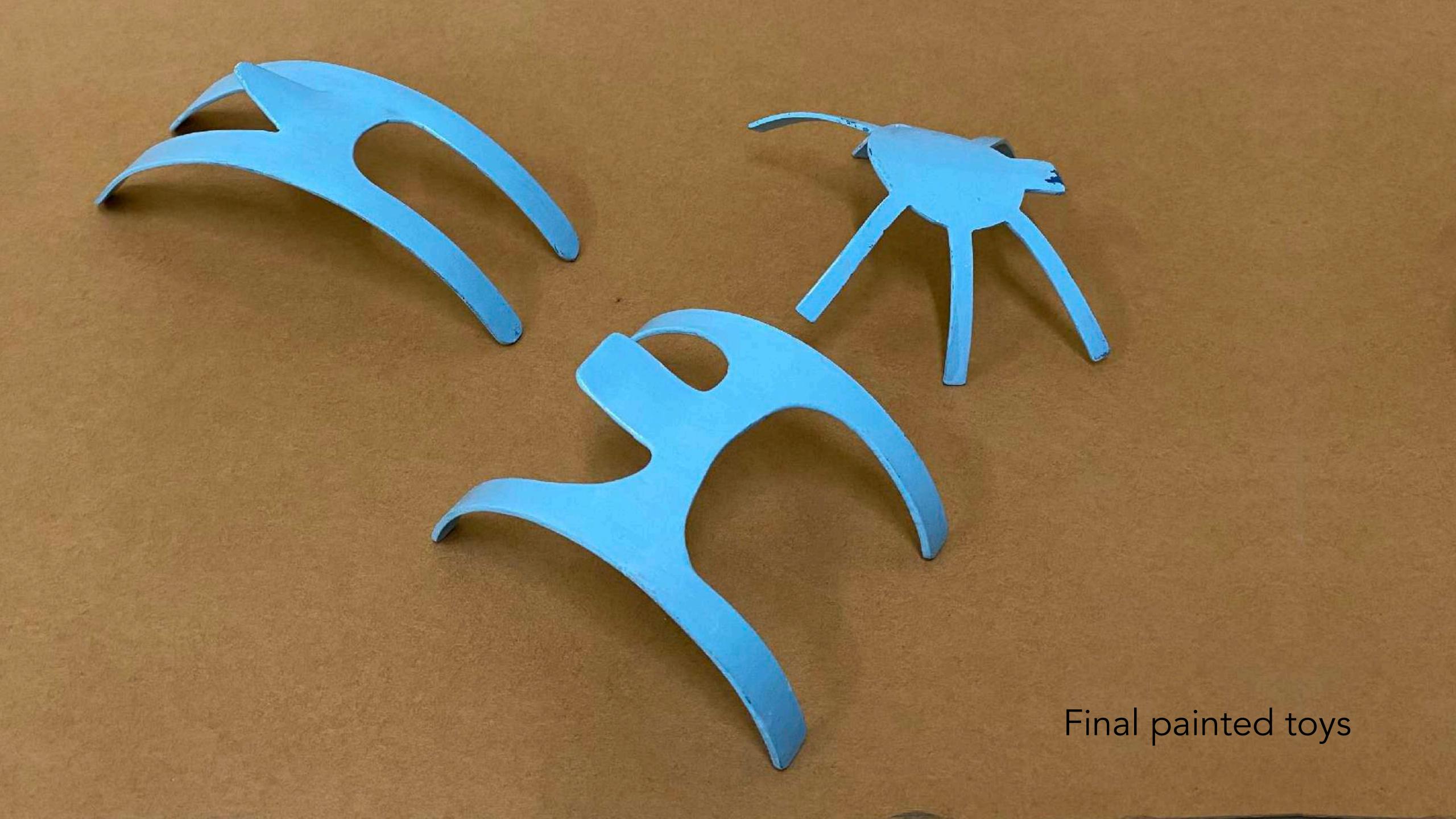








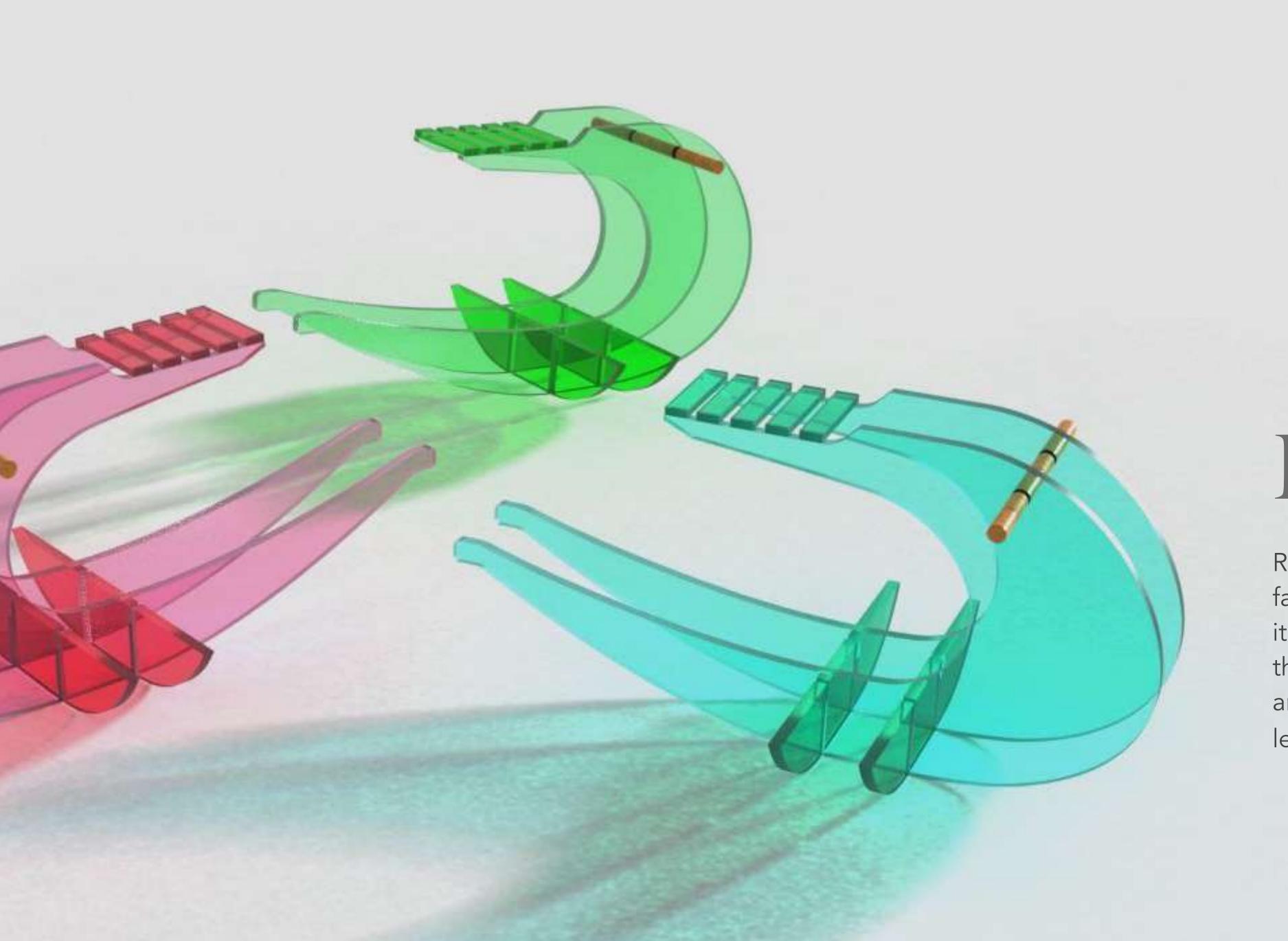






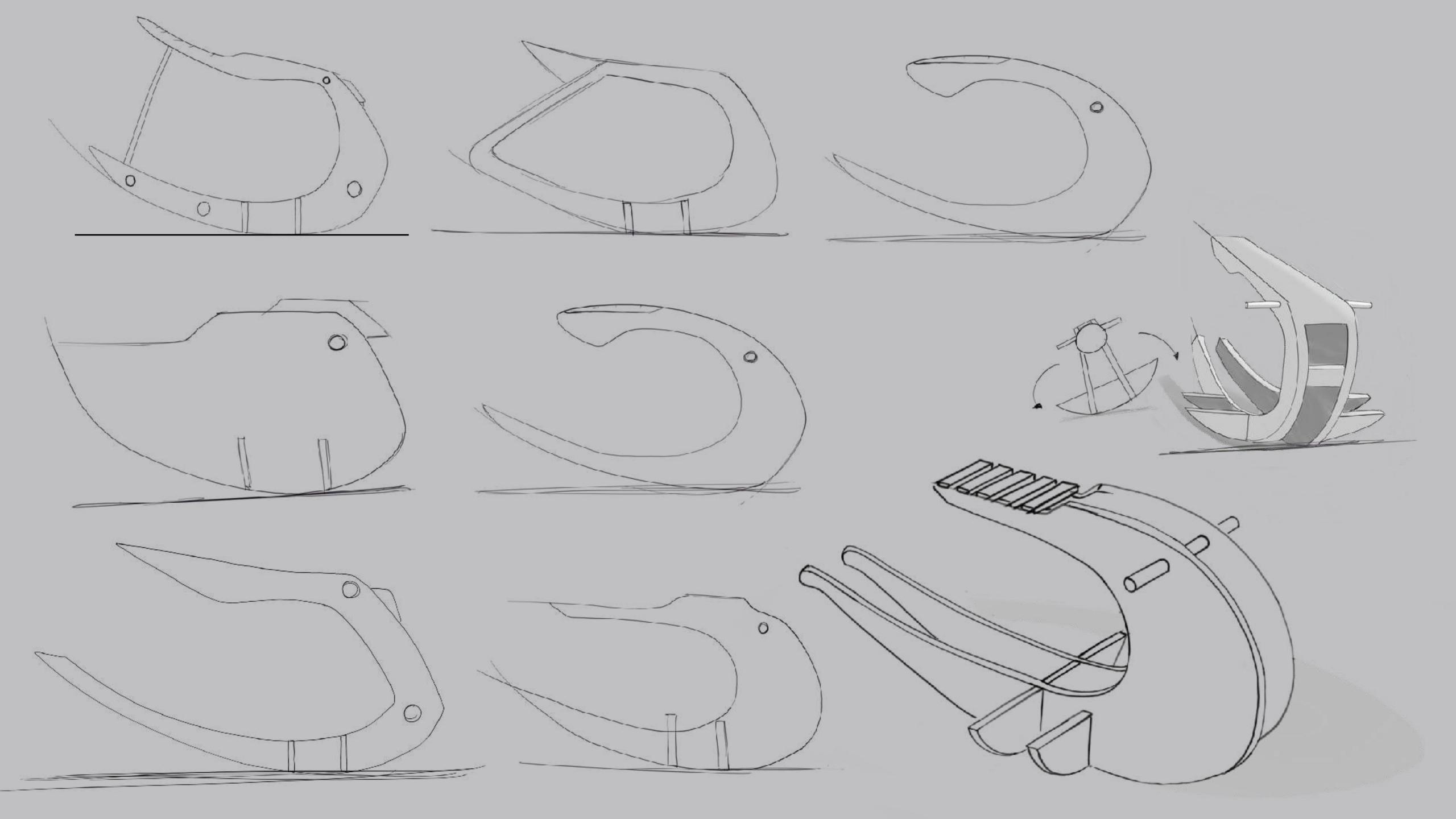
Making a competitive game for kids of age 4-6

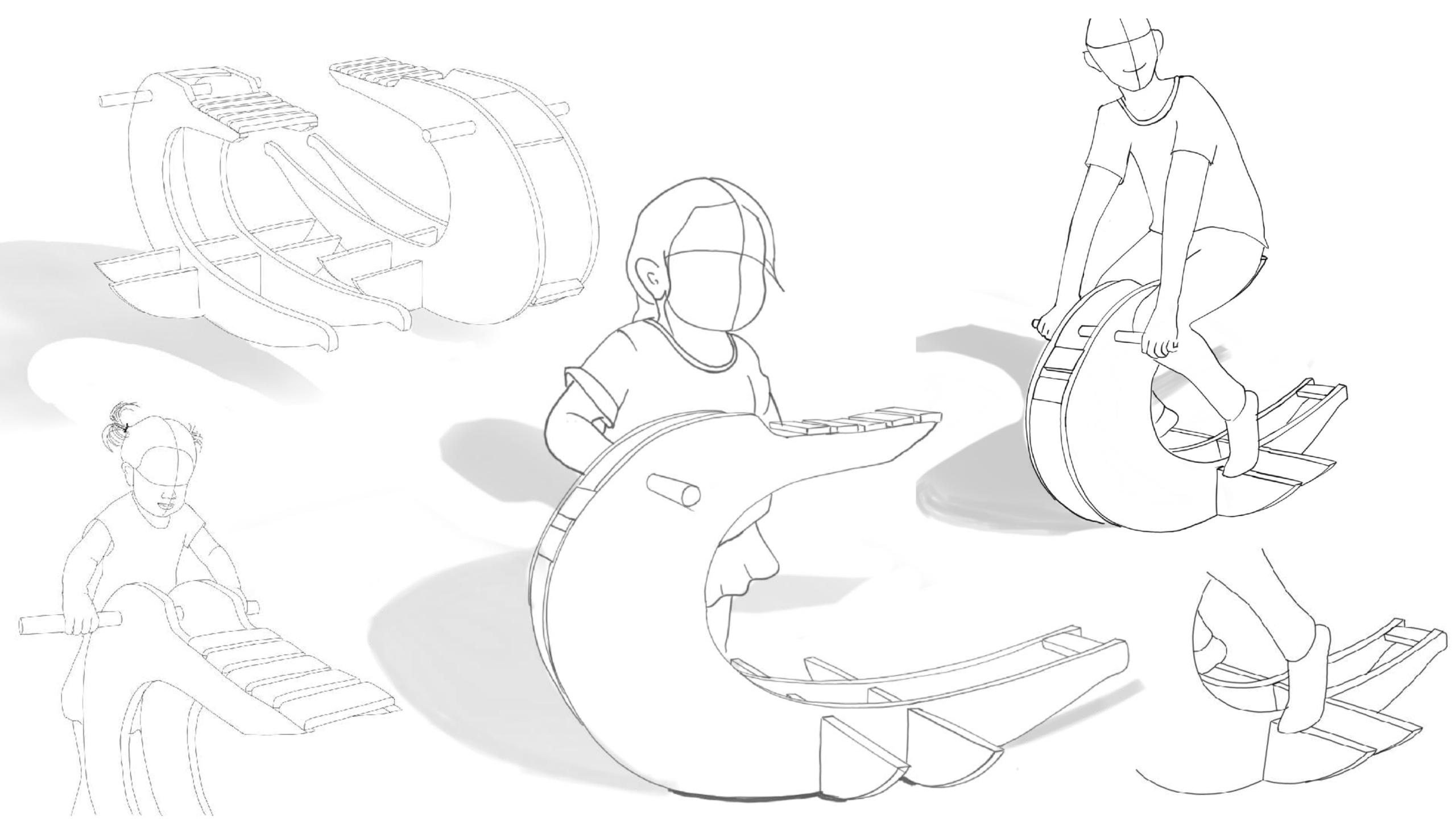




RIKE

Rike is a revisit to one of our favorite toys as kids and combining it with the fun of riding bikes around the corners leaning just like on a arcade bike with the freedom of leaning side to side.





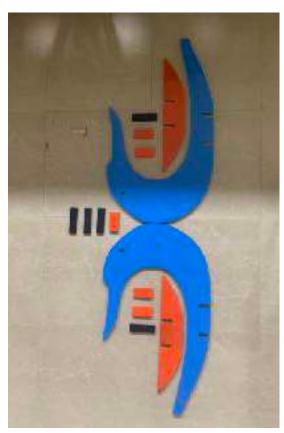


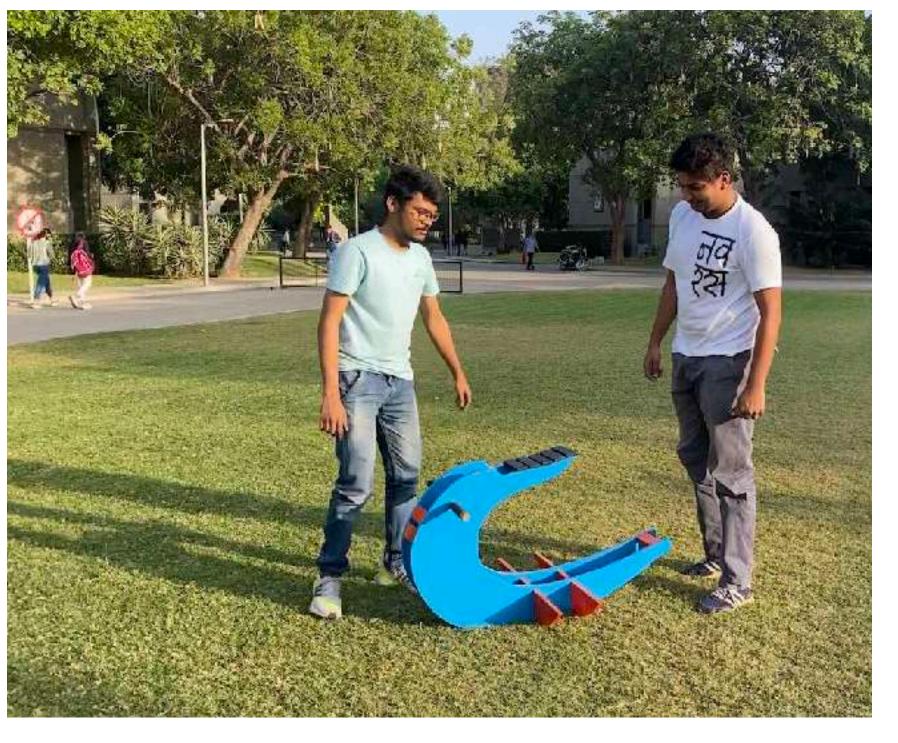


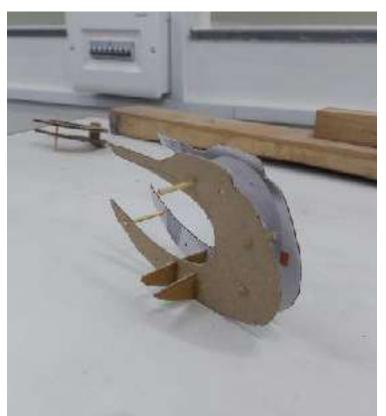




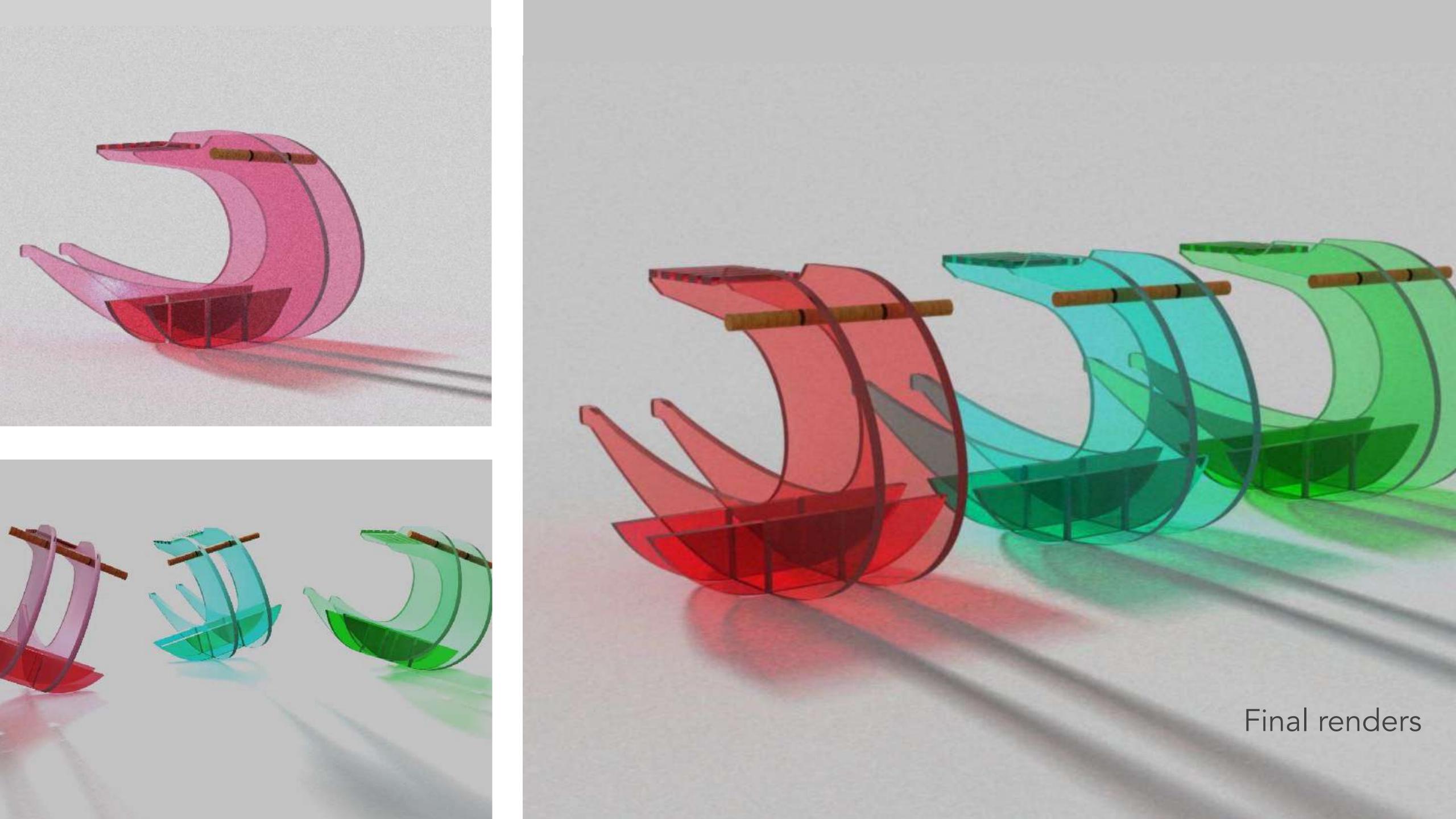














Thank you !!!

Contact

Mail: hemang.design1@gmail.com

Phone: 7990937340

Instagram: hemang.design