CLERO.

REDEFINING CLEAN FOR PEOPLE AND PLANET.





PROBLEM IDENTIFICATION.

NO PLACE TO KEEP THEIR PERSONAL STUFF

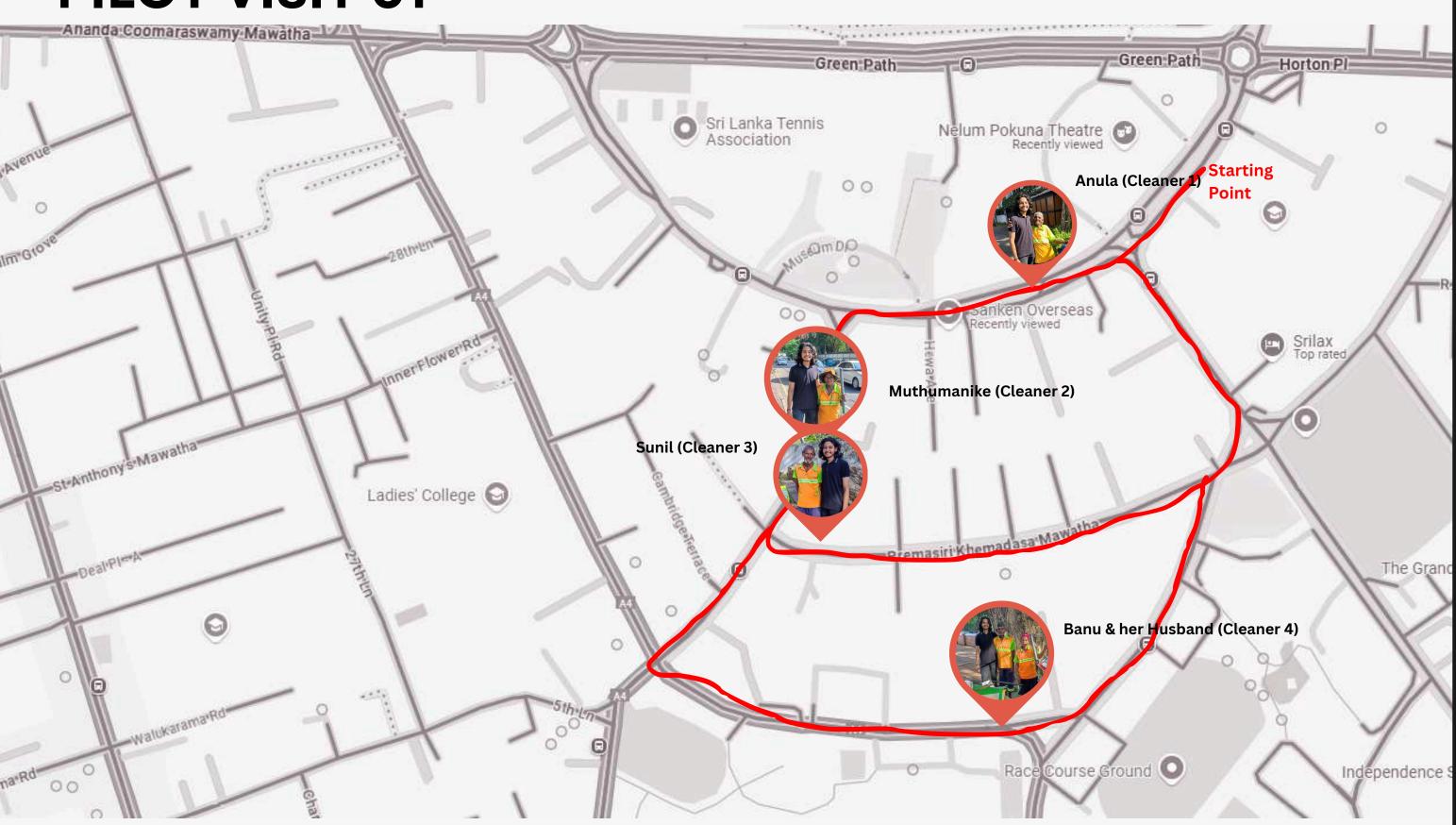
EATING ON THE ROADS

SORTING ALL COLLECTED GARBAGE BY HAND AT THE END

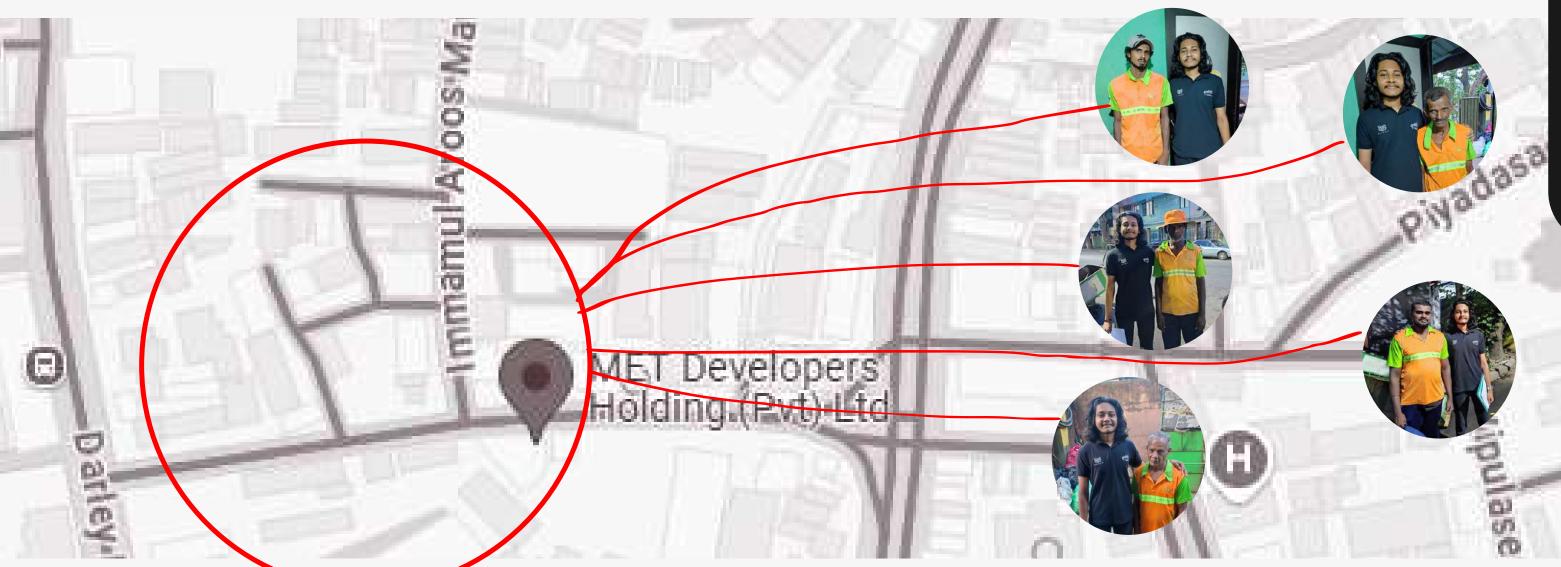
CART IS LITTLE BIT HEAVY IT SELF



PILOT VISIT 01



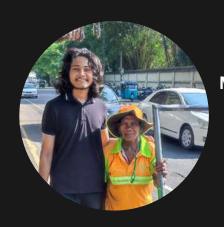
PILOT VISIT 02





Anula (Cleaner 1)

Anula has 9 years of experience, working 12-hour days in the D3-Sri W.W. Kannangara Mawatha area. They are generally satisfied with their tools and love their job despite challenges like low salary and rain.



Muthumanike (Cleaner 2)

Muthumanike has been a cleaner for 18 years, also working long hours in the D3 area. They find their tools good and are content with their work, even with difficulties like removing grass and dealing with rain and tree leaves.



Sunil (Cleaner 3)

Sunil has 5 years of experience, working a 12-hour shift in the D3 area. He finds removing grass difficult, and has experienced a work-related fall. He emphasizes self-safety and appreciates community kindness.



Banu & her Husband (Cleaner 4)

Banu is the most experienced cleaner with 19 years in the D3 Reed MW area, working 12-hour days. They are satisfied with their tools and feel a strong sense of duty towards their job, although they are considering a career change.

Stafford Motor Co. (Pvt) Ltd. - Head Office

Analysis Findings.

IN BRIEF

3 Main

Problems

• RESTRICTIVE: THE LACK OF PROPER WASTE-SORTING COMPARTMENTS FORCES ALL TYPES OF WASTE TO BE MIXED TOGETHER, REDUCING EFFICIENCY AND MAKING DISPOSAL MORE TIME-CONSUMING.

• CRAMPED: WORKERS OFTEN OPERATE IN CONFINED SPACES WITH NO DESIGNATED ROOM FOR PERSONAL BELONGINGS.

• UNSANITARY: THE ABSENCE OF PROPER PLACES TO

EAT DIRECTLY IMPACTS THE WORKERS' HEALTH AND

DIGNITY.

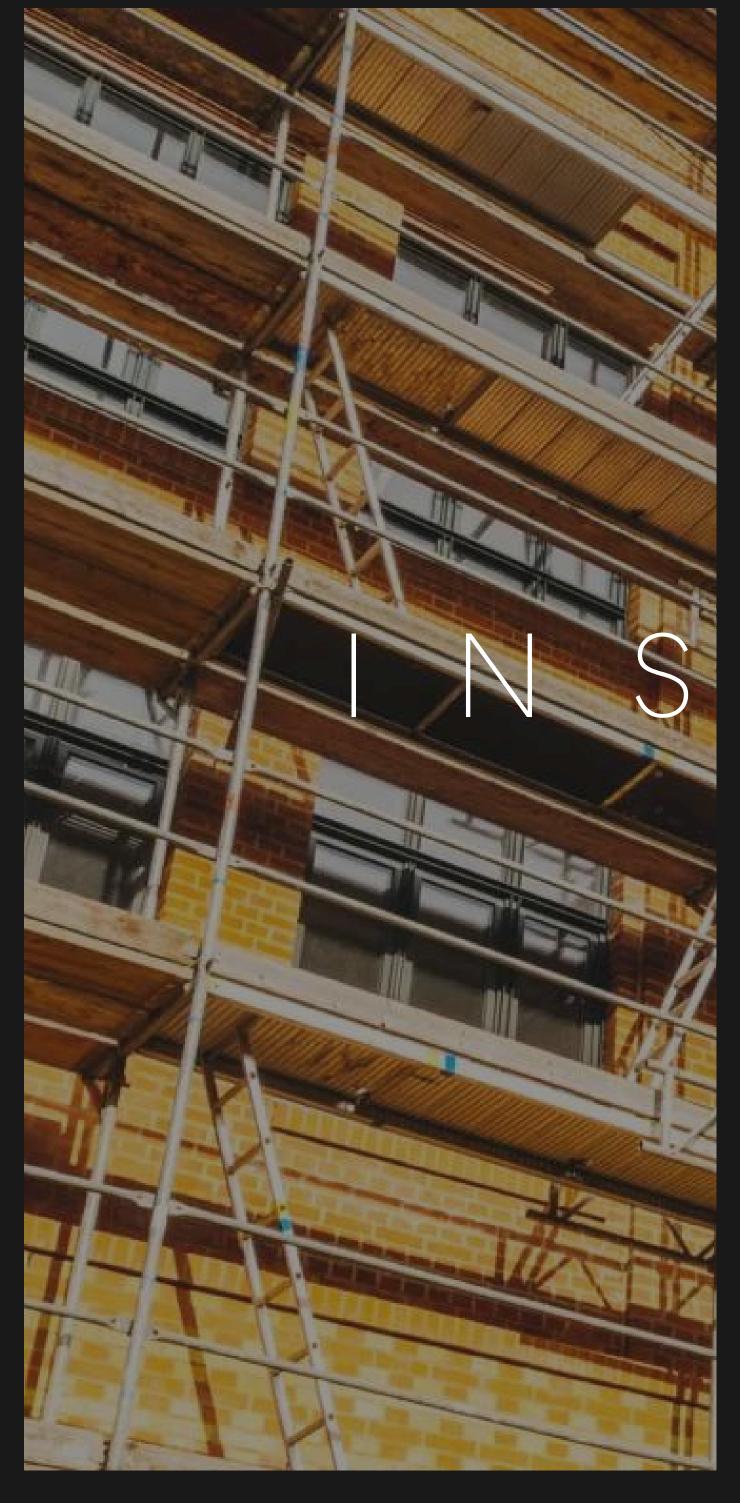
Problem Statement.

Road cleaners currently face restrictive, unsafe, and undignified working conditions due to heavy carts, lack of personal storage, poor waste-sorting options, and no proper space to rest or eat.

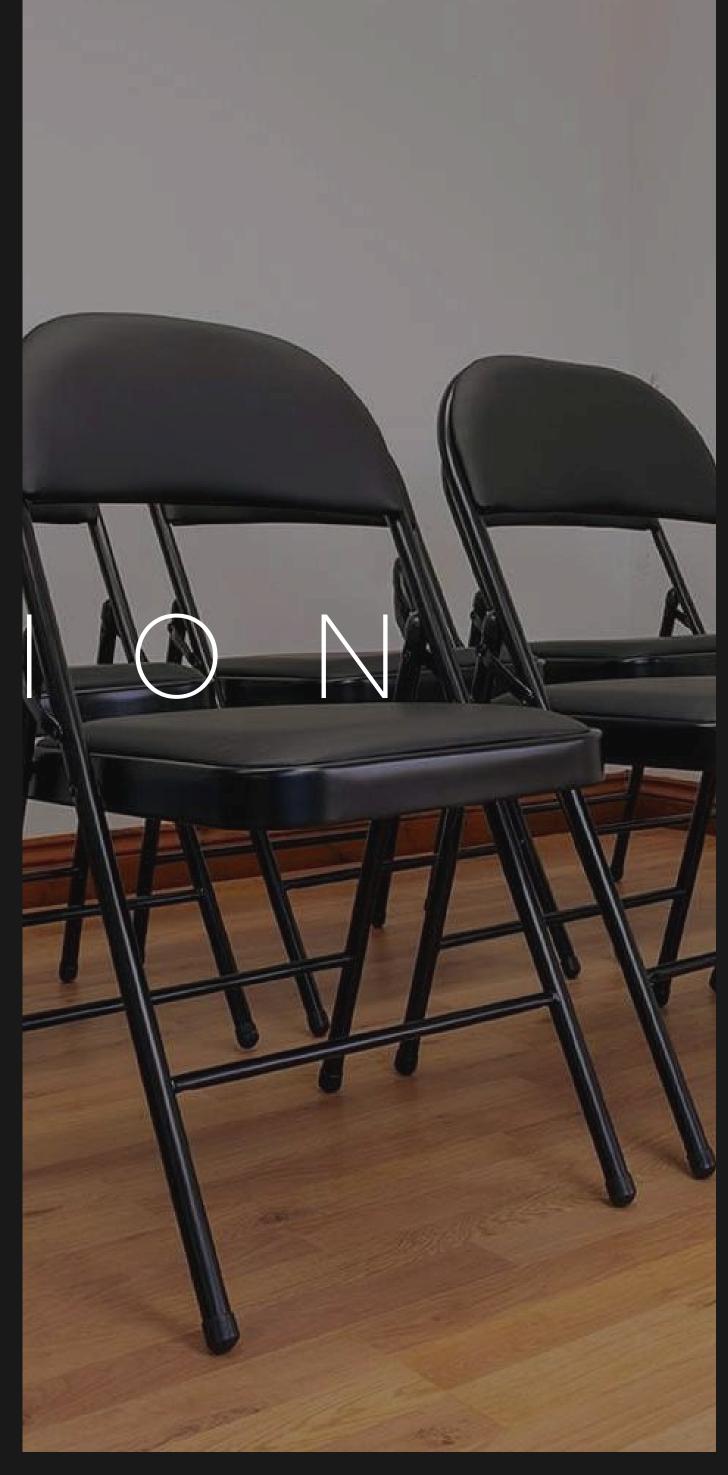
INTO A DESIGN CHALLENGE

How Might !?

Make road cleaning more efficient, comfortable, and dignified through organized waste sorting, personal space, and hygienic breaks?





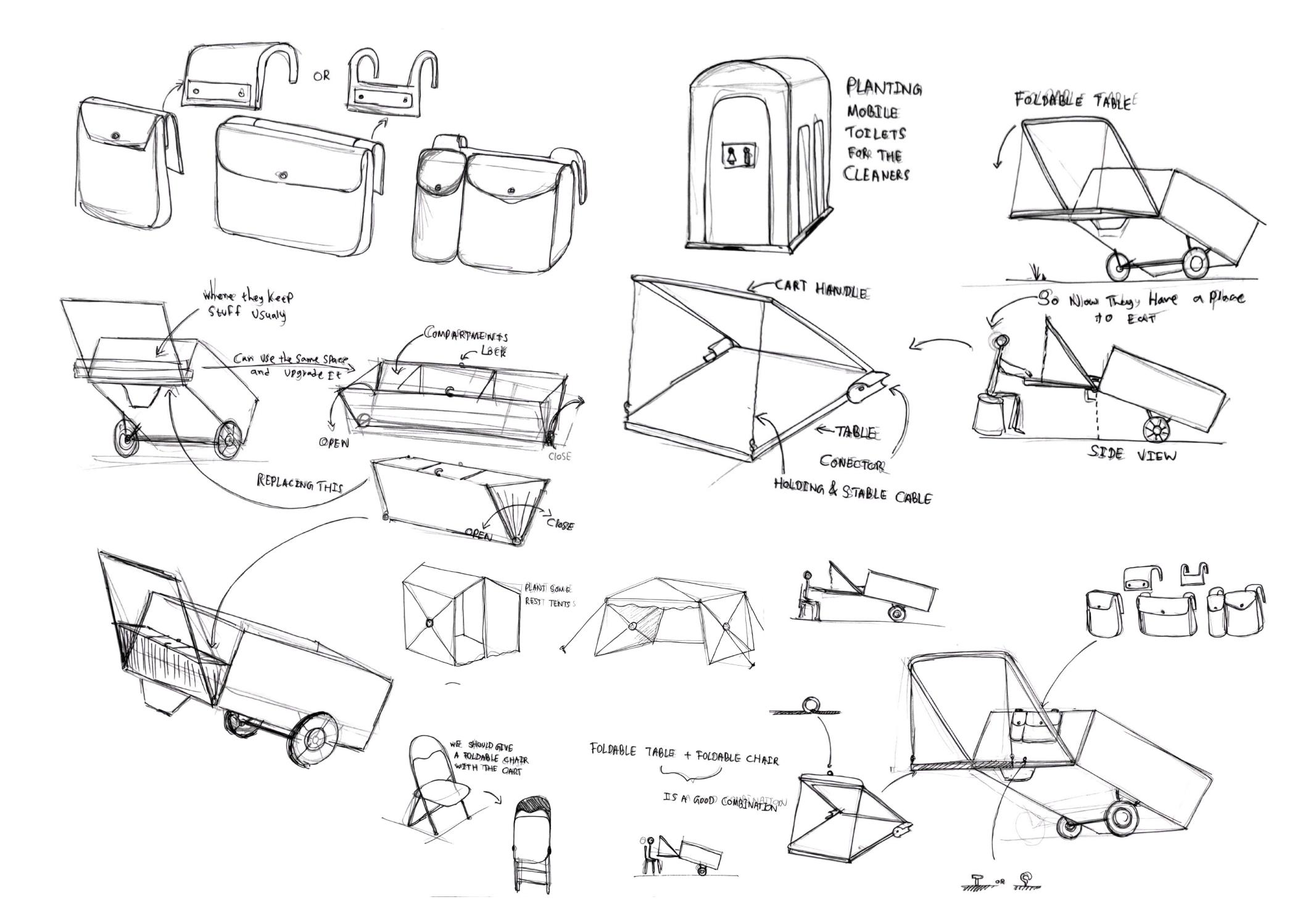


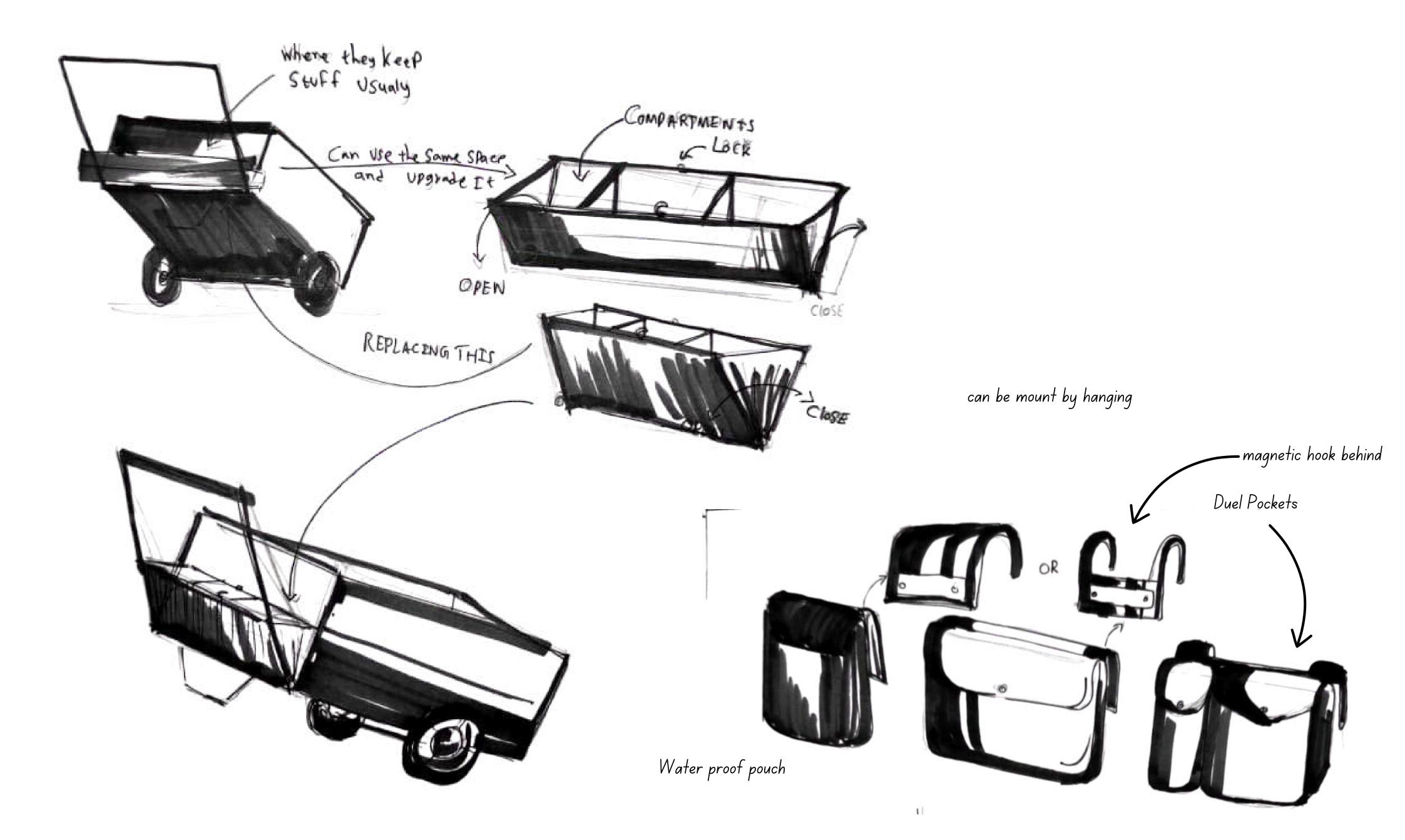
S C A F F O L D I N G S

P L A S T I C B I N S

FOLDING CHAIRS

SKETCHING & IDEATING •





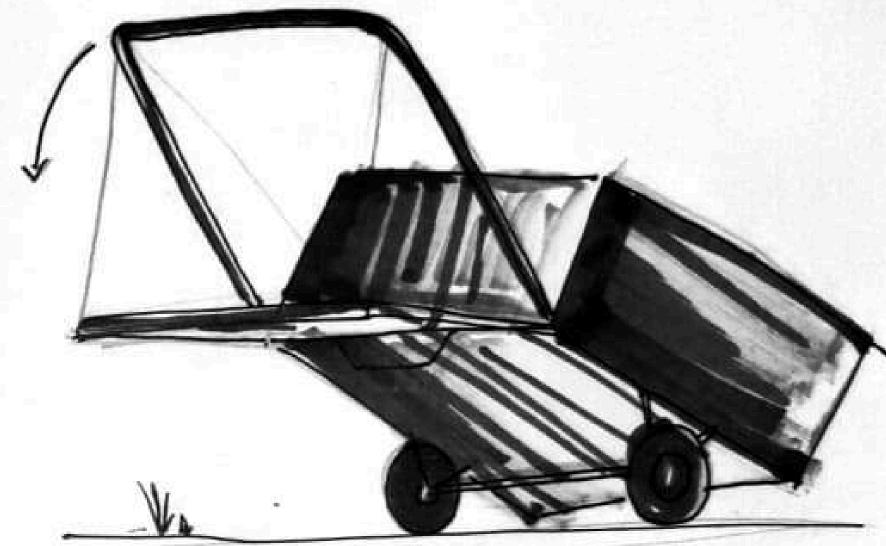


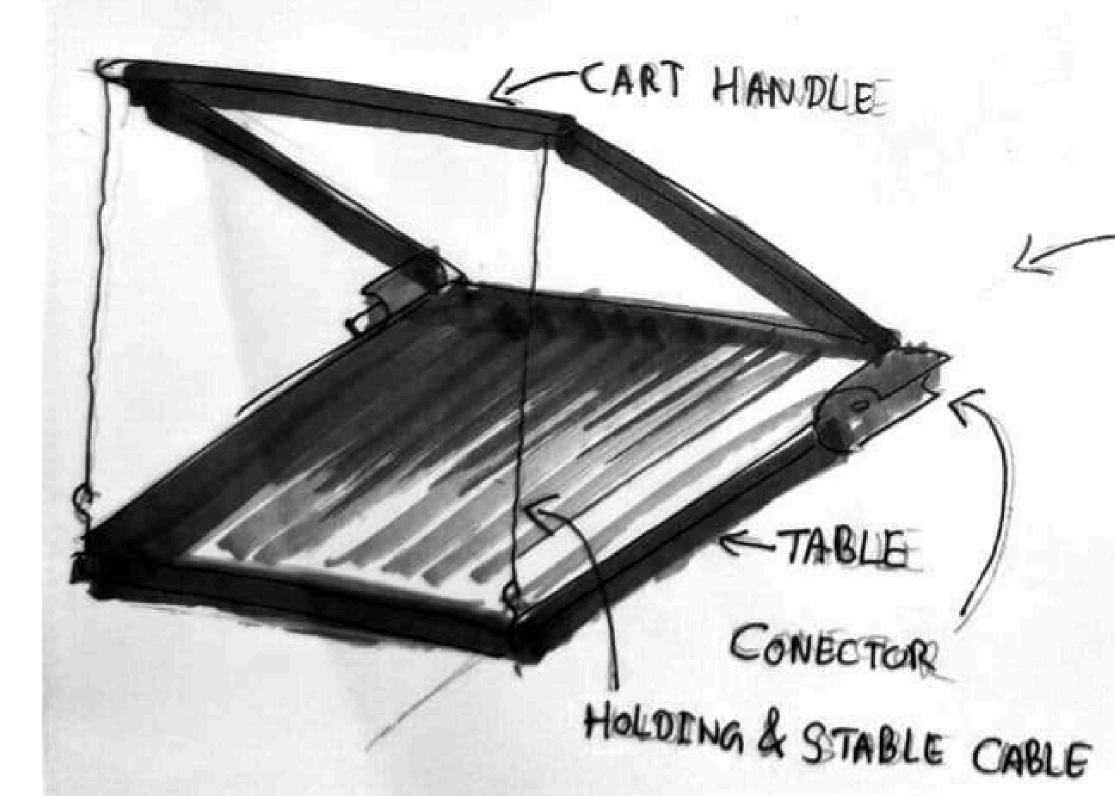
PLANTING MOBILE MOBILE TOILETS FOR THE CLEANERS

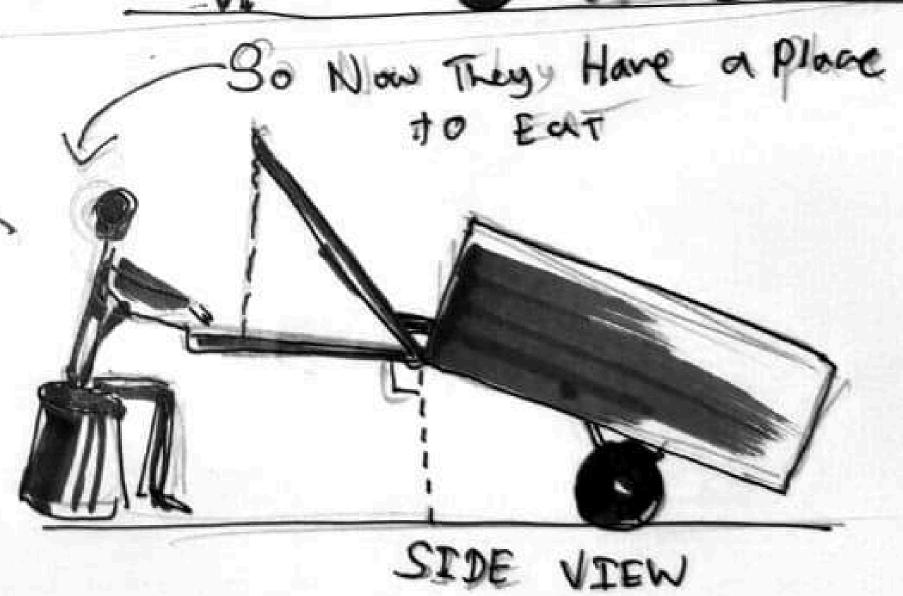
For sanitary preposes

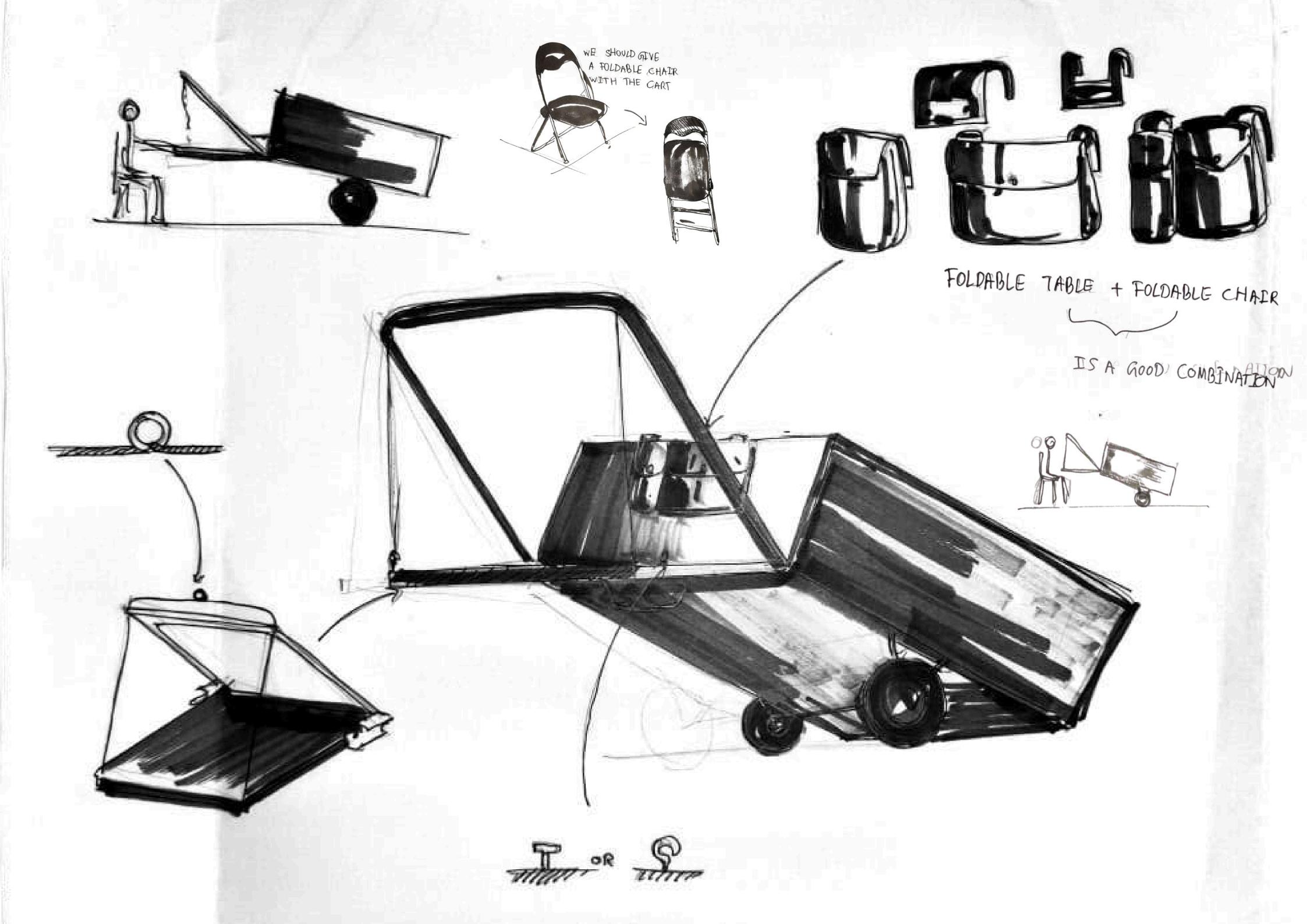
Some Other ideas

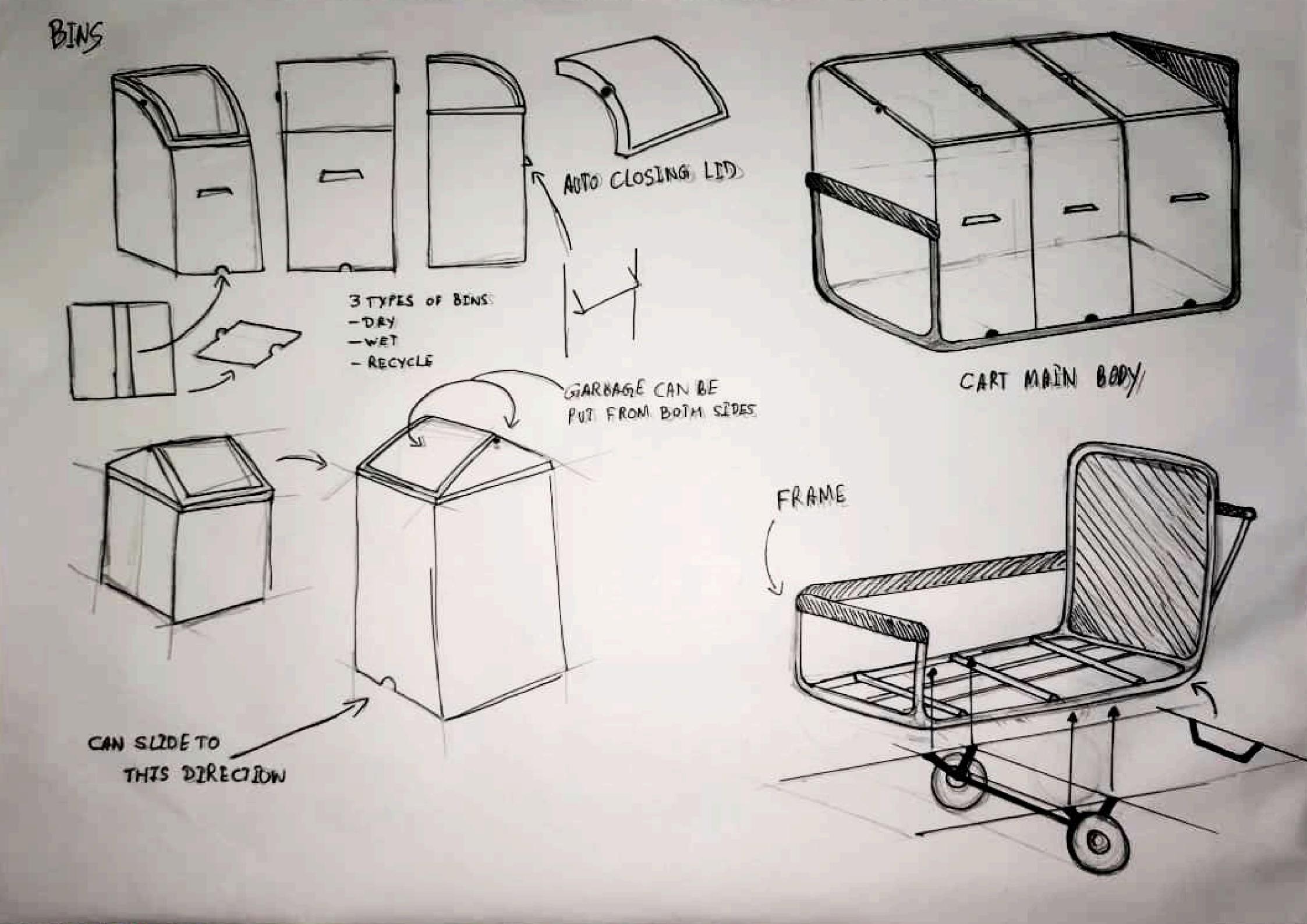


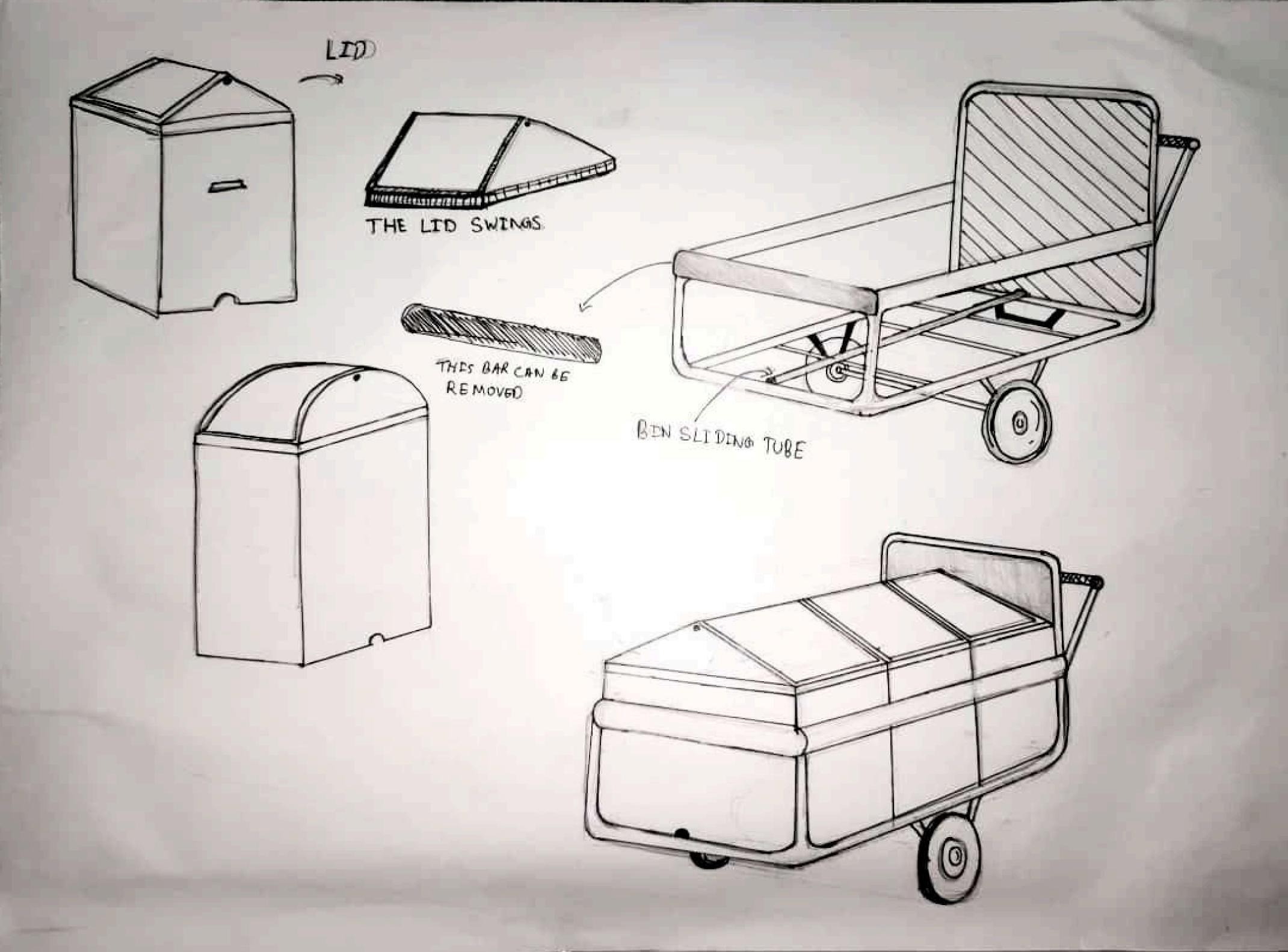


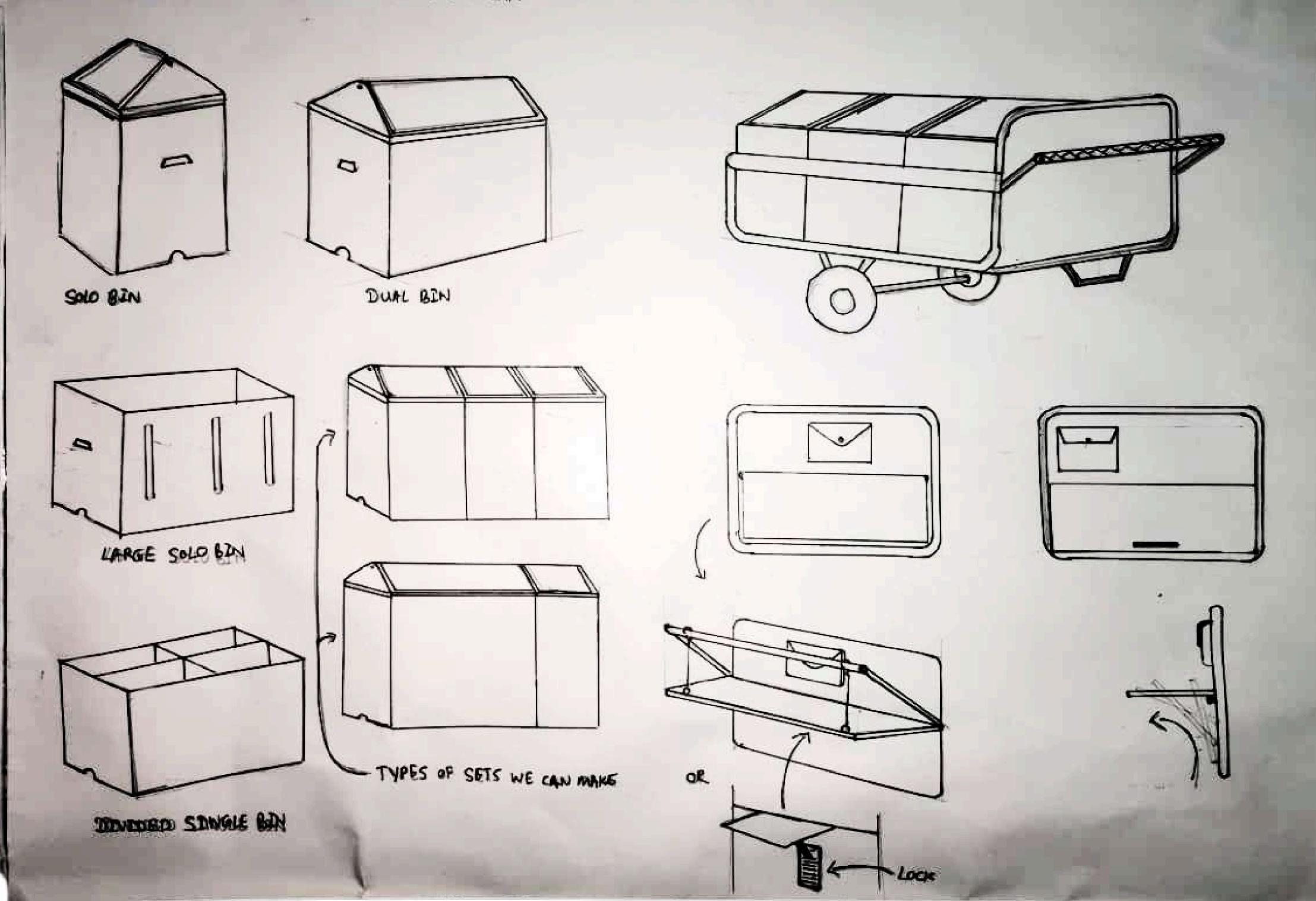


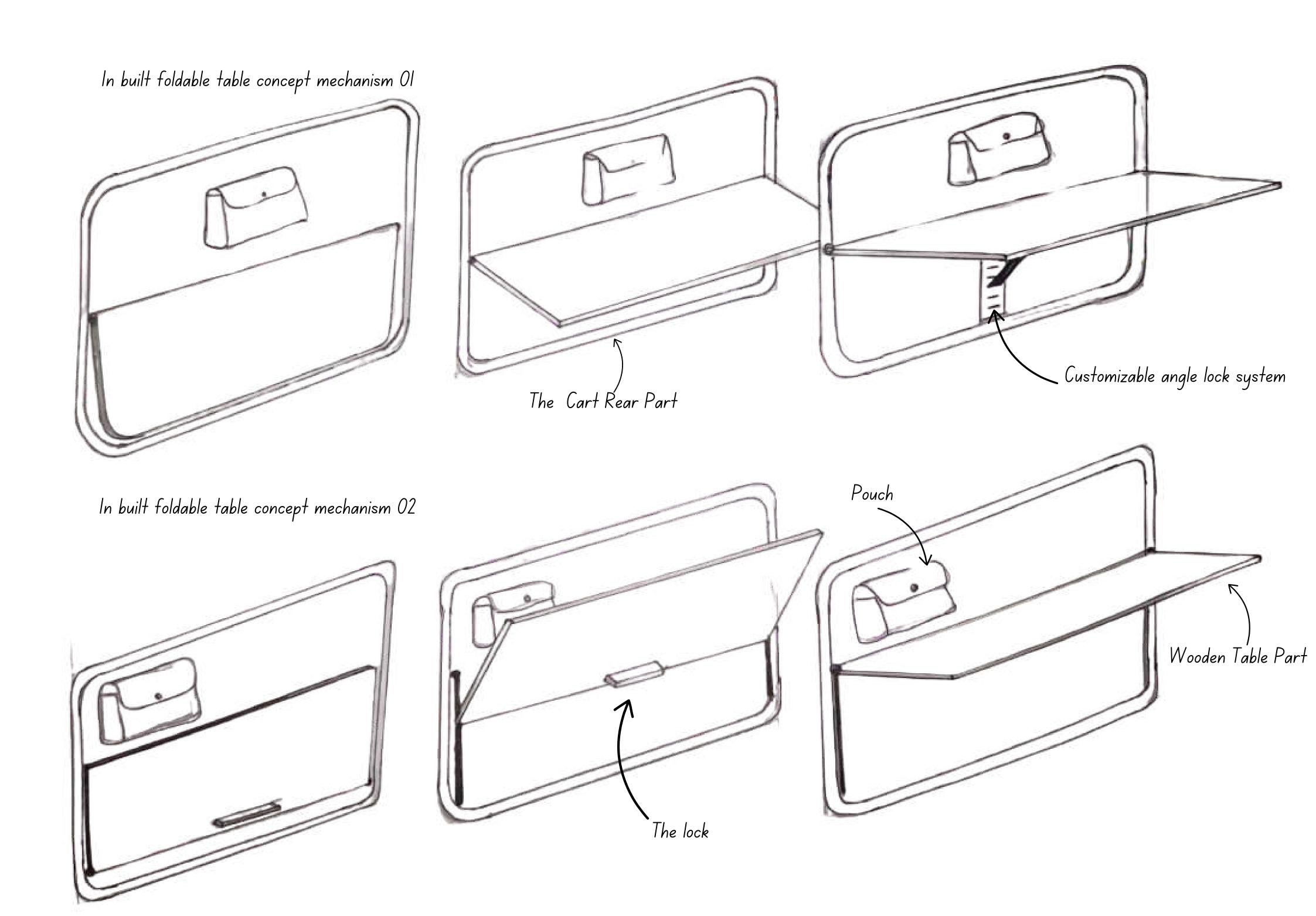




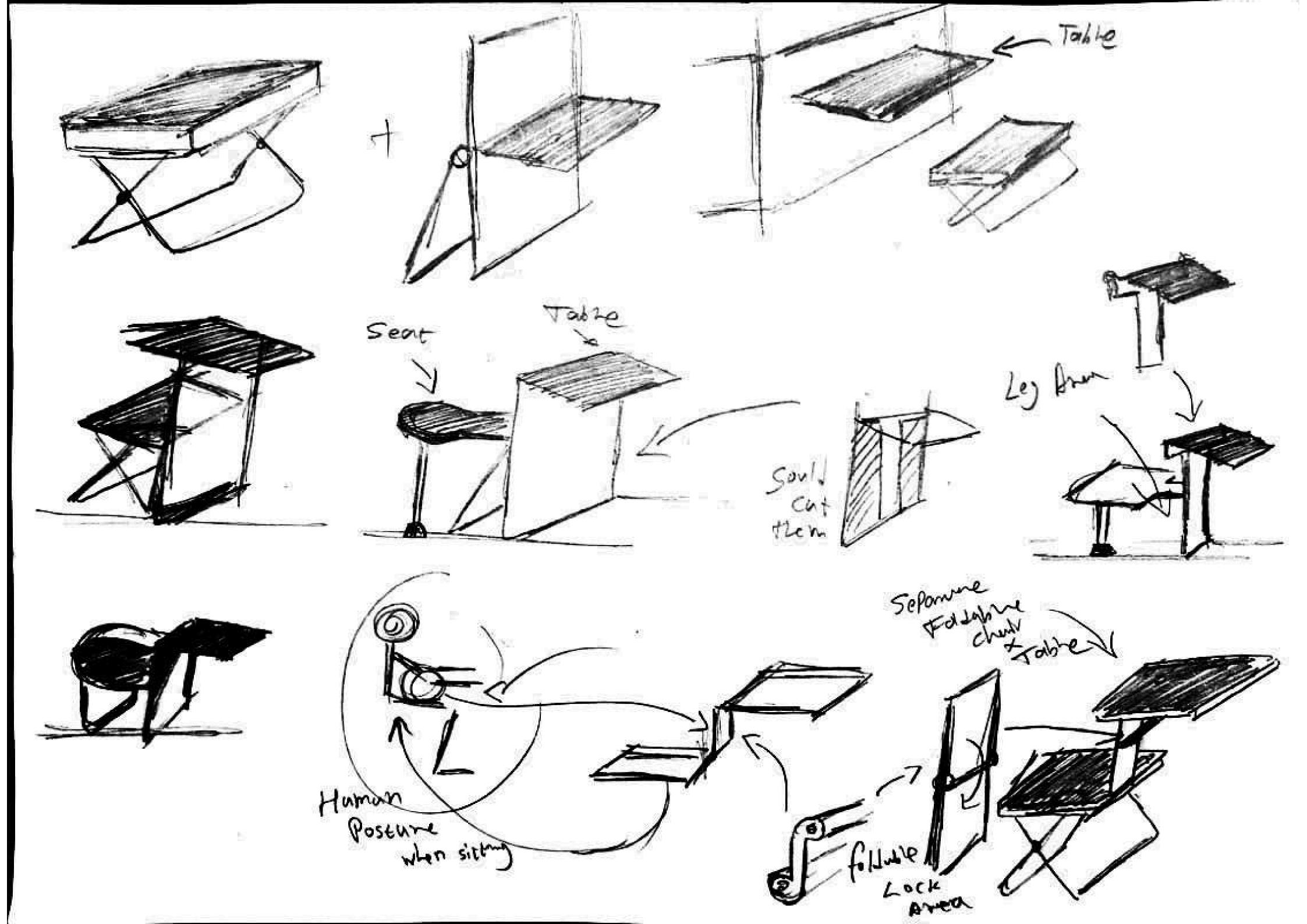


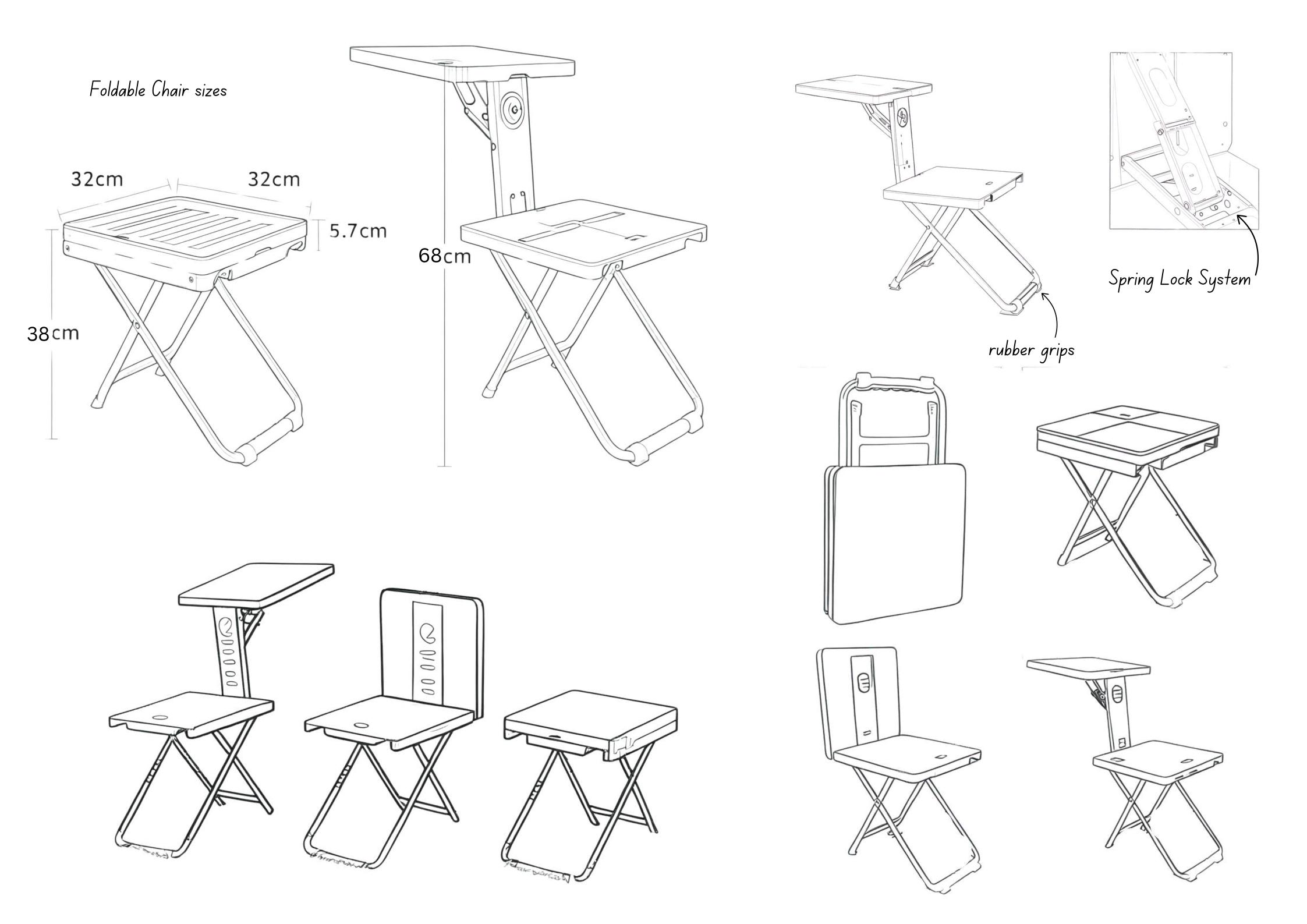












CONCEPT VISUALIZATIONS •







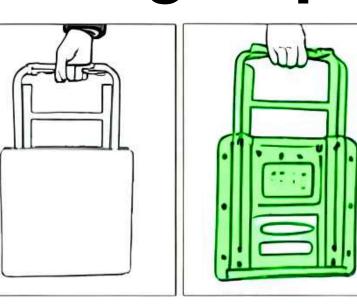




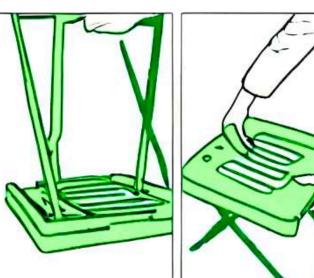




Folding Steps



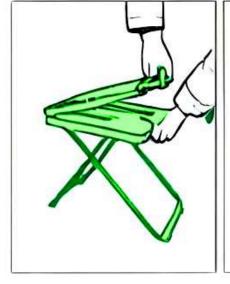




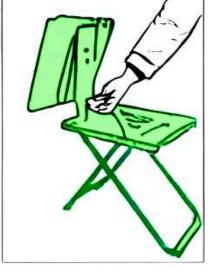


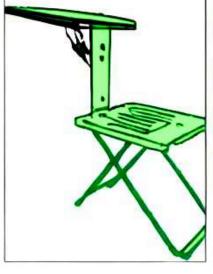










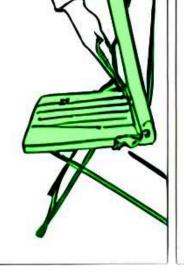


















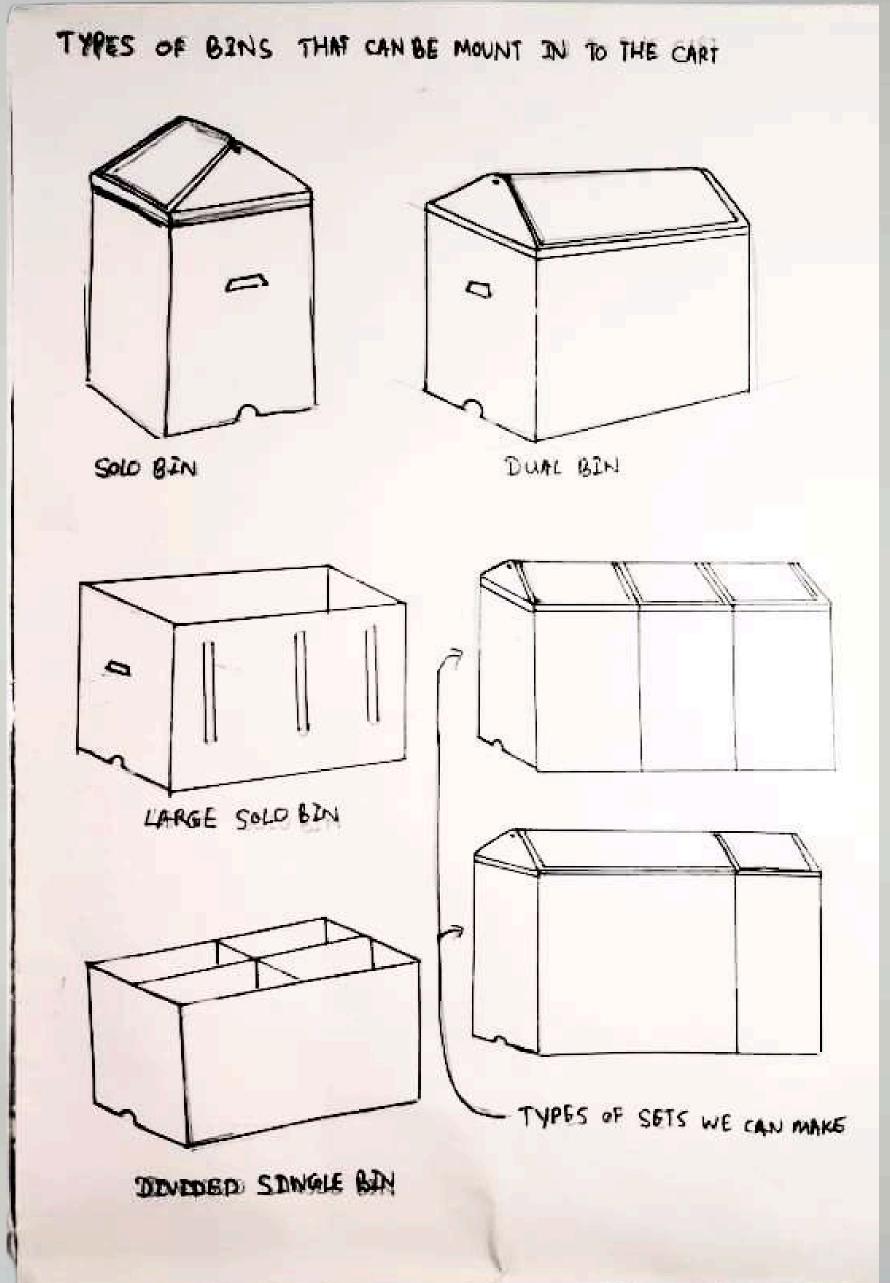




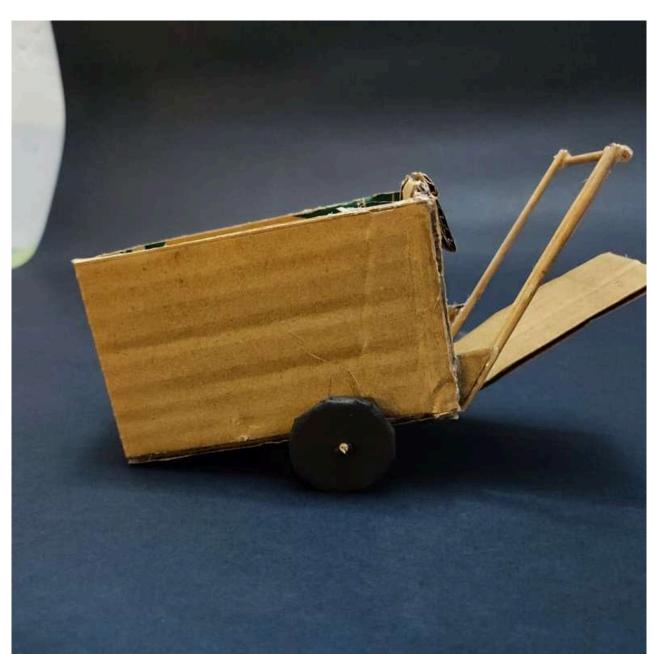


Types of Bins

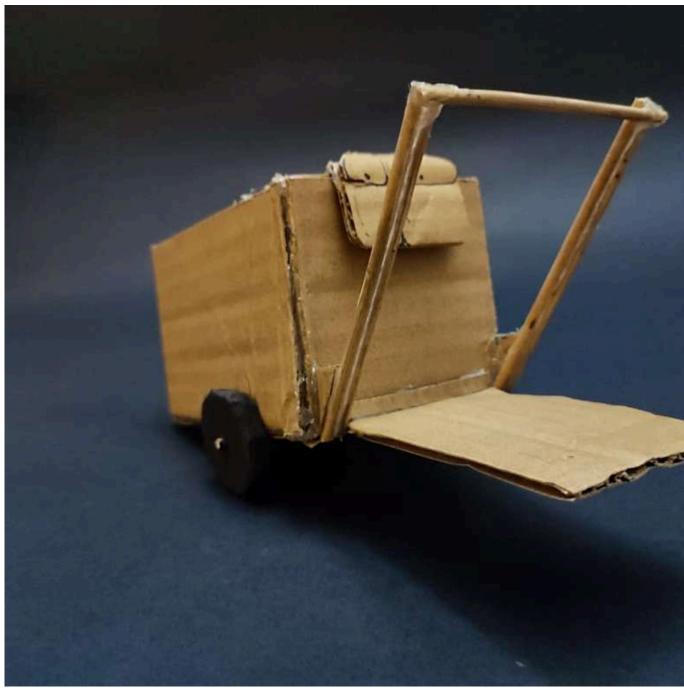














GARBAGE CART PROTOTYPE 01



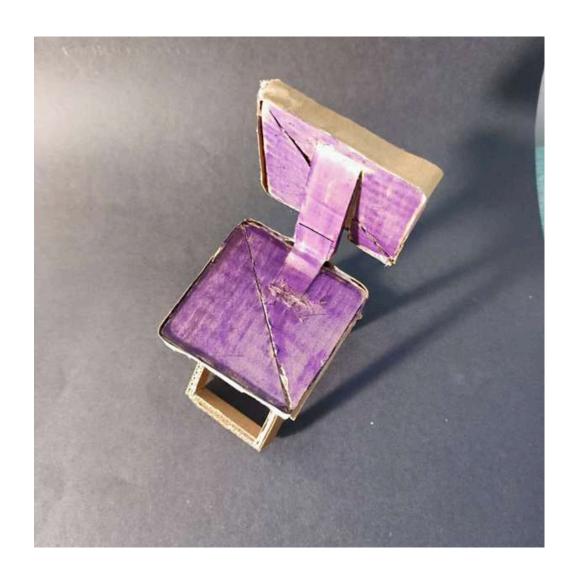










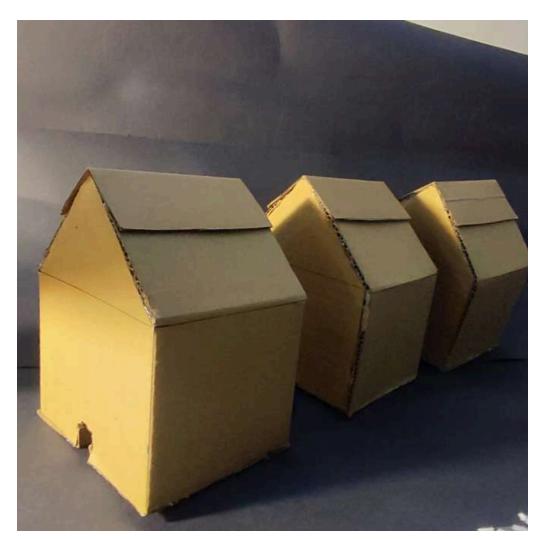




FOLDABLE CHAIR X TABLE PROTOTYPE













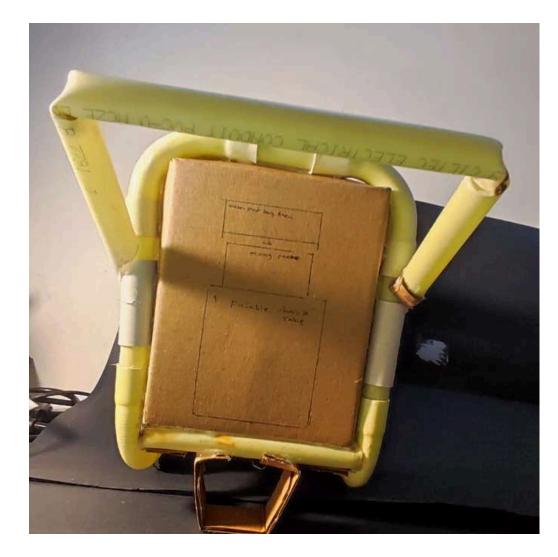




GARBAGE CART PROTOTYPE 02

















POUCH PROTOTYPE









Product Concept Finalized

















FEATURES •





Secure and clean storage

WATER BOTTLE, LUNCH PACKET AND SOME EXTRA CLOTHES.

Easy waste---\ sorting compartments

DRY/WET AND RECYCLE



Built-in space to rest and eat.

HYBRID FOLDABLE CHAIR X TABLE





















ERGONOMICS & MATERIALS

• Frame: Aluminum alloy

• Wheels: Solid rubber tires + steel axle

• Bins: Recycled plastic (from bottles / HDPE)

• Personal Storage: Waterproof pouch - synthetic leather

• Seat & Table: Aluminum hinge + recycled plastic panels

• Handles: Rubber grips

• Safety: Reflective strips



The average height

of a Sri Lankan

151.4 cm - 163.6 cm

Width: 80Cm



ThankYou