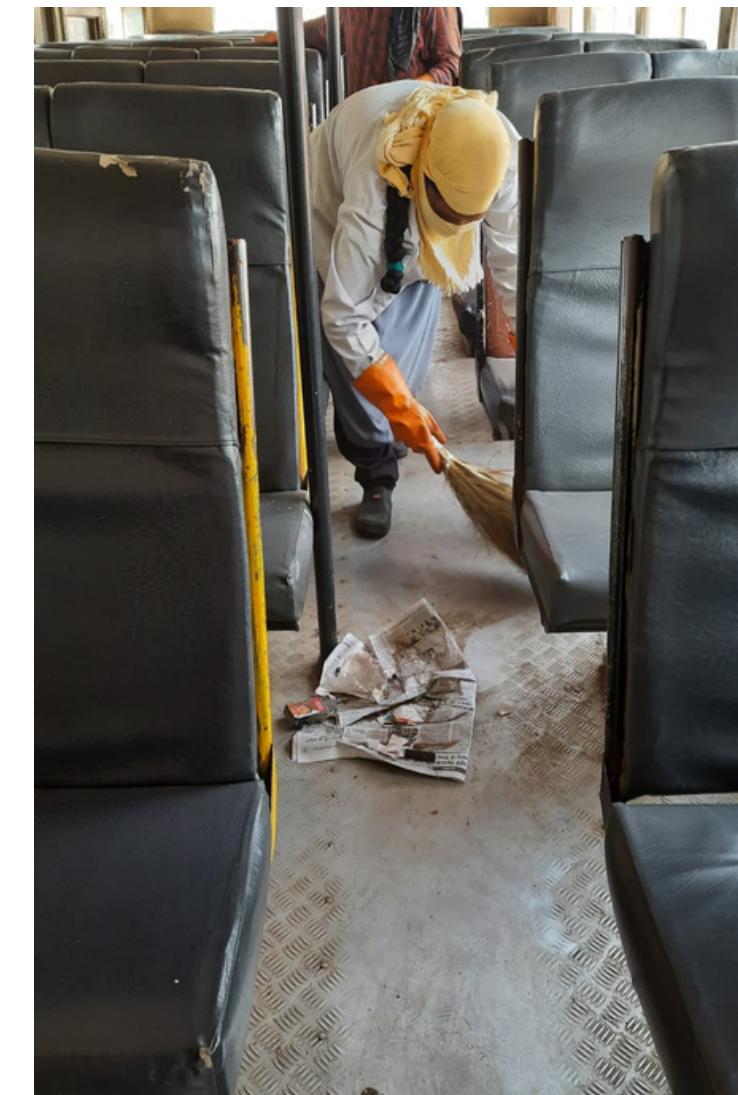


HUMAN CENTERED DESIGN

Harita Kumari
Keerthana karri
Soham vagal

FIELD RESEARCH



WASTES FOUND

- PET BOTTLES
- PAPER CUPS
- NEWSPAPERS
- WRAPPERS

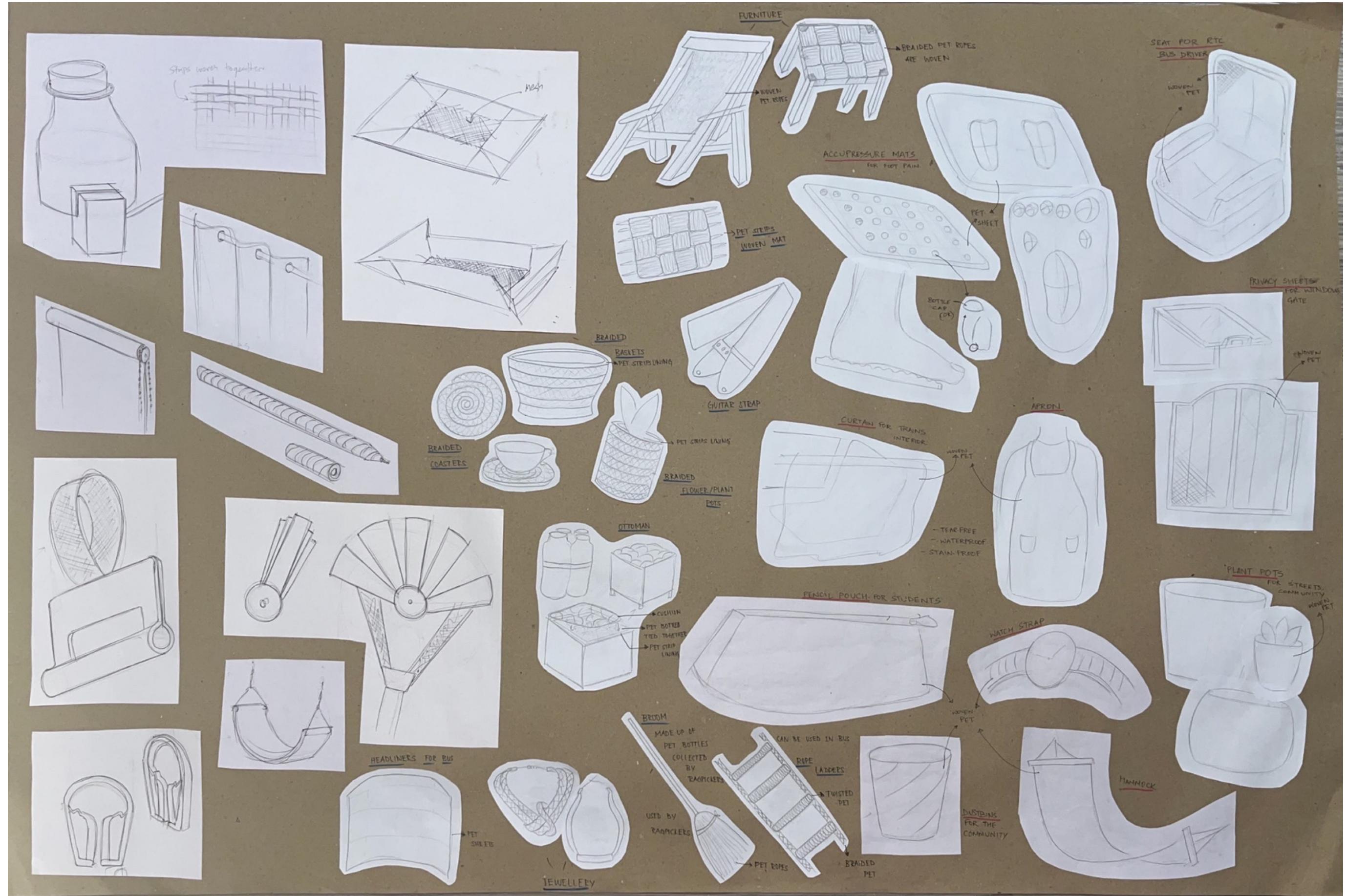
RECYCLING PET PLASTIC

- 1.COLLECT
- 2.SEPERATE STORAGE COMPARTMENTS FOR EACH MATERIAL
3. REMOVE THE LABEL AND COVER
- 4.PEEL THE PLASTIC OF THE MIDDLE (UPCYCLING)
- 5.SEPERATE THE CAP AND BOTTOM PARTS OF THE BOTTLE(RECYCLING)

PET BOTTLES RECYCLING

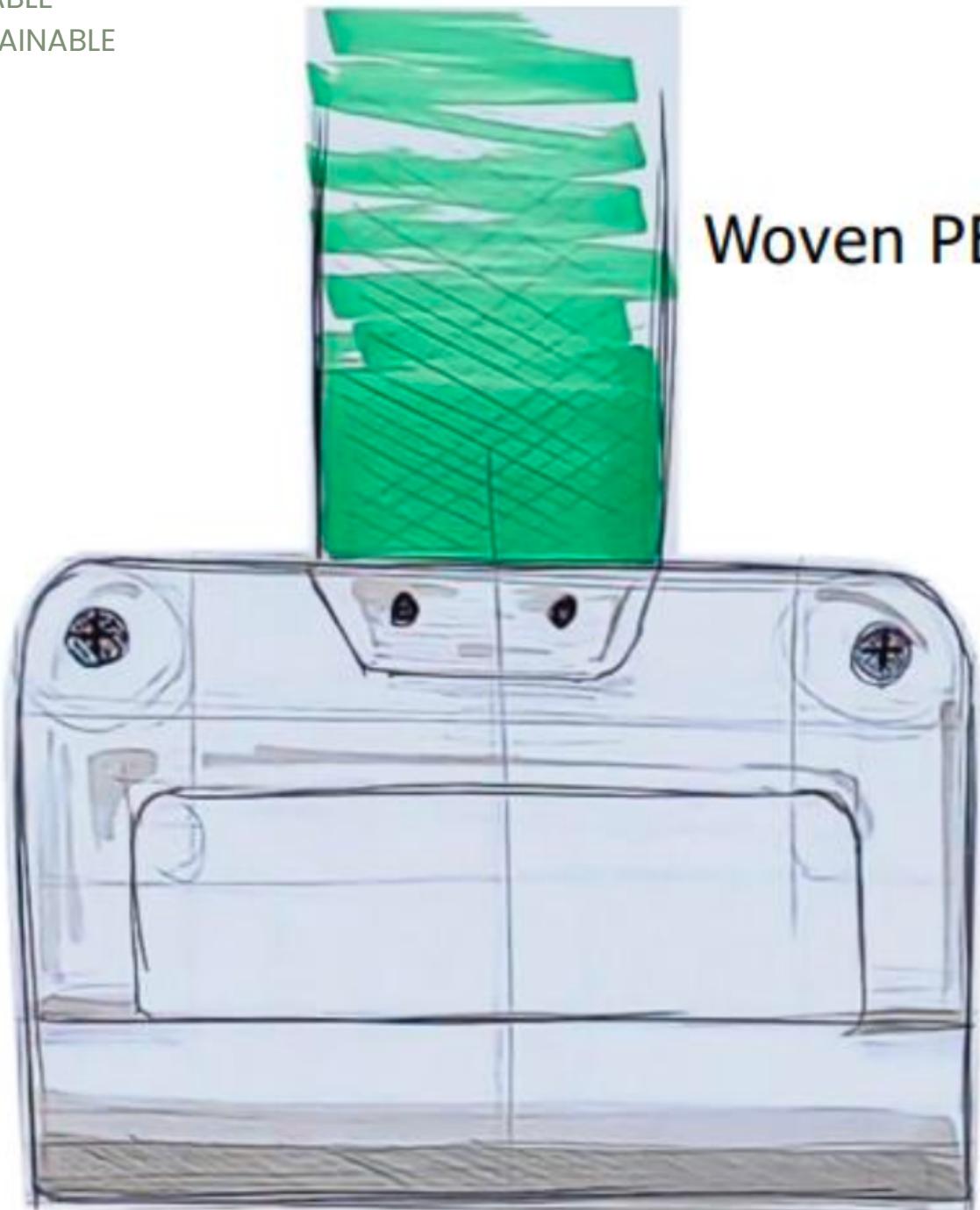


IDEATIONS

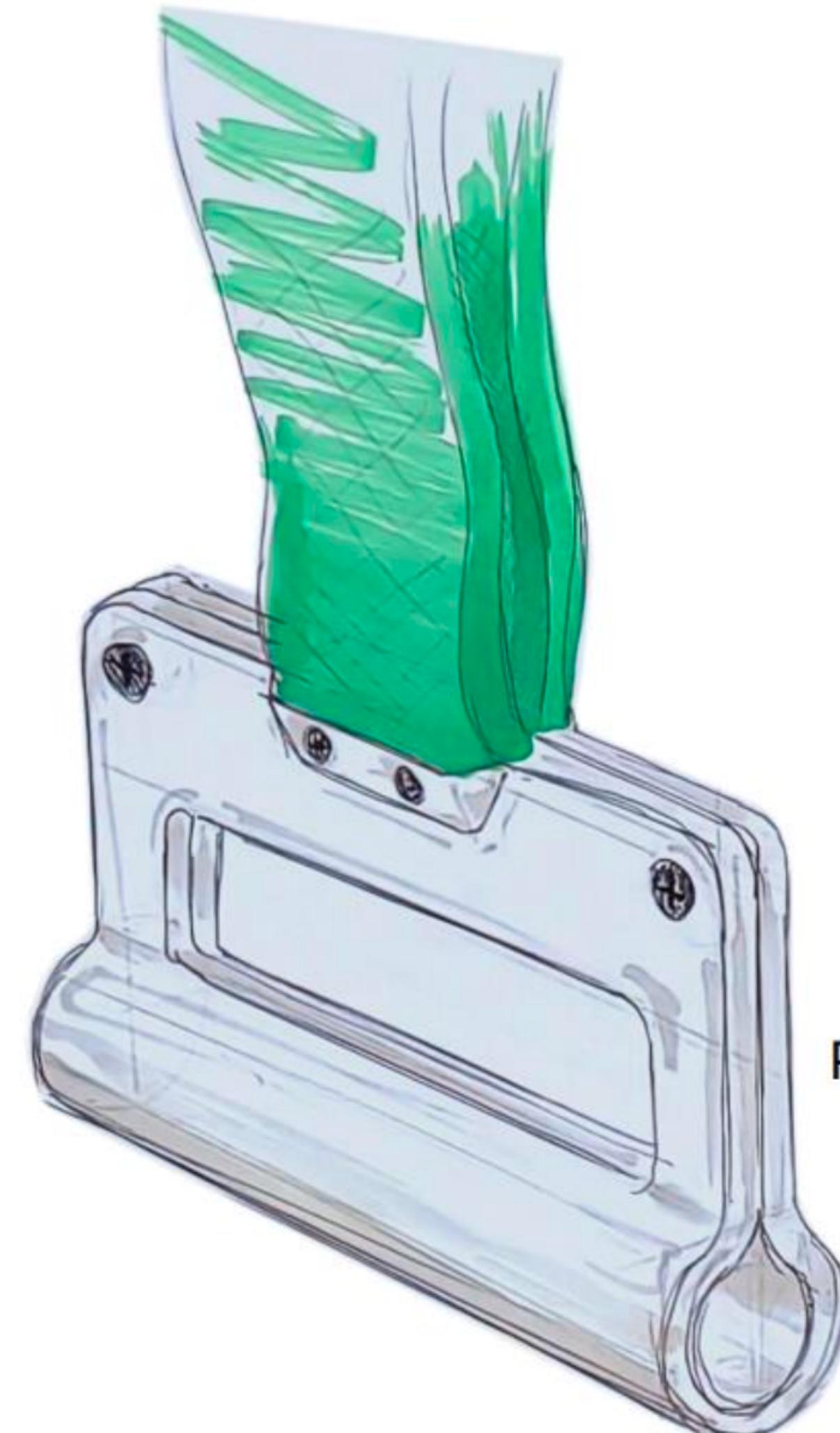


FINAL SKETCH

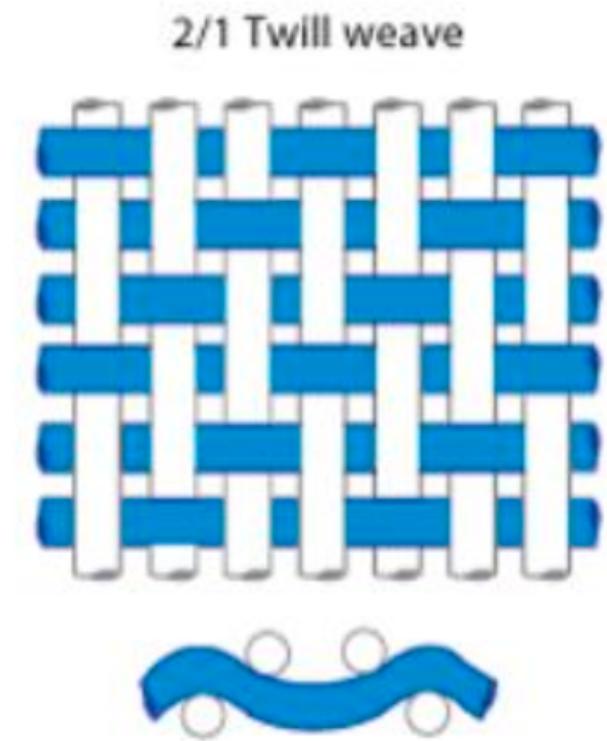
- PRACTICAL
- LIGHT WEIGHT
- DURABLE
- SUSTAINABLE



Woven PET strap



PET sheet



2/1 Twill weave

FLOOR MATS (CHATAI)

EASY TO MANUFACTURE (WEAVING ONLY USED)
VAST AREA OF CONSUMPTION (SCHOOLS, HOUSEHOLD)
HIGHLY CUSTOMISABLE IN DESIGN.
VERSATILE USE CASE.

MANUFACTURING PROCESS:

STRIPS OF PET BOTTLES ARE MADE.
STRANDS ARE SENT THROUGH LOOM.
SYNTHETIC THREAD IS WOVEN INTO BIND PLASTIC TOGETHER.
MATS ARE CUT INTO SIZES.
BORDERS ARE SEALED BY COVERING IT WITH POLYESTER CLOTH.

MACHINERY:

CUTTER
LOOM
DIE CUTTER MECHANICAL
SEWING MACHINE



2/1 Twill weave

