

#### **DESIGN CONSIDERATIONS**

- Any extra joinery or member adding should not hinder the flow of the current design.
- The positive and negative space formed by the concurrent members should be maintained

#### PROBLEMS IDENTIFIED

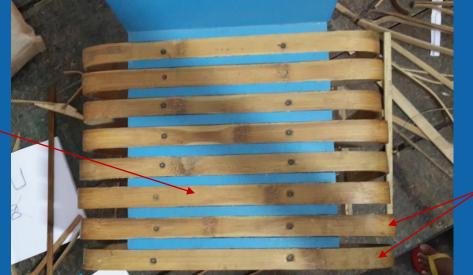
- The legs of the chair are shaking
- Tendency to fall backwards while sitting on the seat.
- Each of the segments stretch themselves when someone is seated.

#### EXISTING BAMBOO CHAIR

## REASONS FOR THE UNSTABILITY

MORE NUMBER OF BAMBOO SEGMENTS FOR THE LEGS



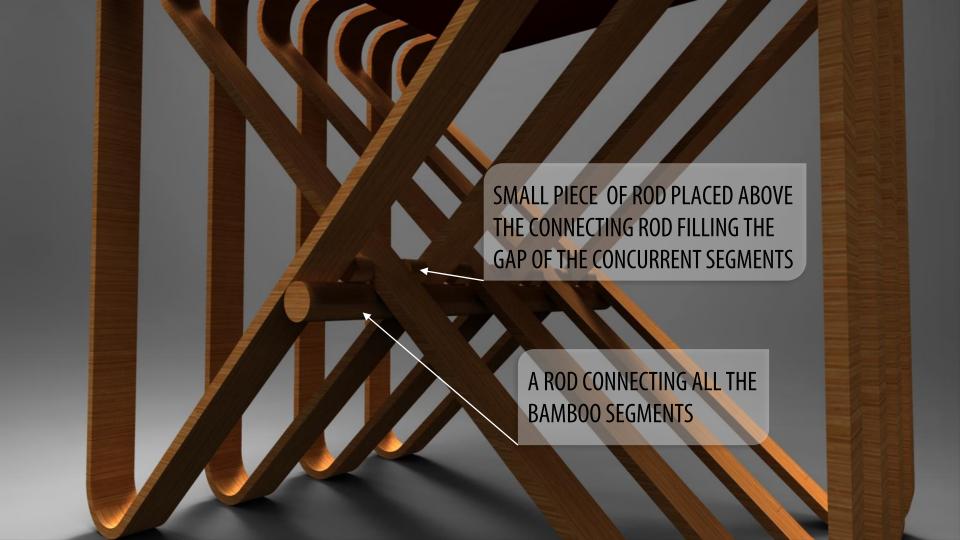




UNEQUAL RADIUS FOR THE CURVATURE



ONE OF THE DESIGN SOLUTIONS

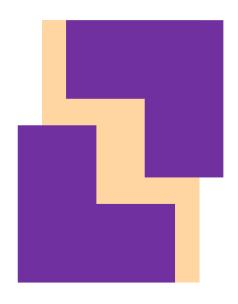








**ROD AND PIECE ARE** CONNECTED USING BAMB00 LAMINATE (REED) AND USING NUT, **BOLT AND** WASHER TO STRENGTHEN THE **JOINERY** 

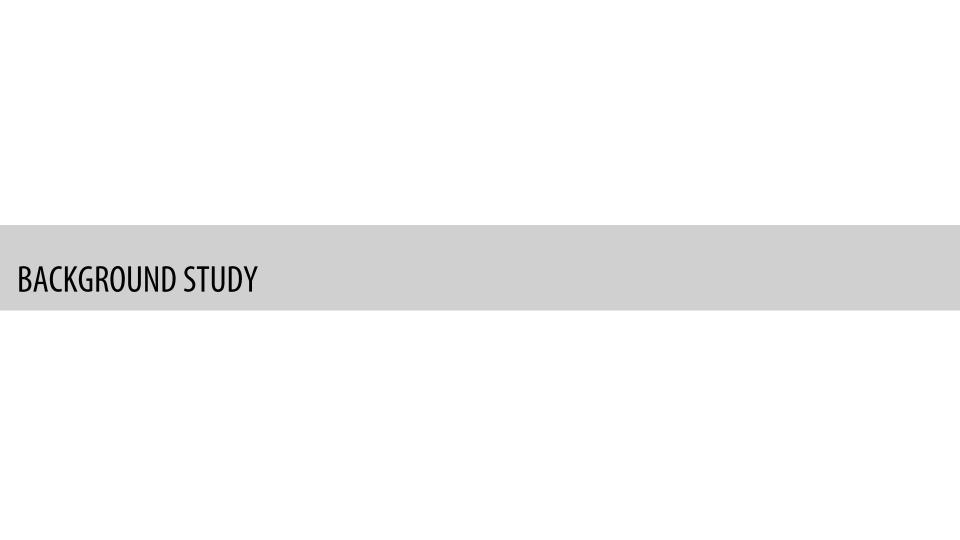


MODULAR FURNITURE SET

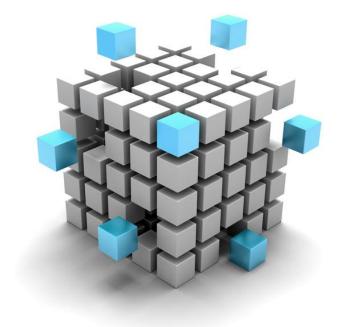
#### Brief

- To design a modular furniture set which caters its functionality in public semi-open space and compact residential spaces. e.g.:- outdoor coffee shops,
- To be used in areas with less circulation space, the furniture should consume very less space.
- Multiple usage of furniture

Material
Bamboo (Elephant bamboo)strips, bending



## MODULARITY AS A CONCEPT



The concept of modularity refers to the subdivision of a system into different modules and can be used in another systems that serves different purposes.

The combination of different sub modular system enables the user to modify its purpose according to his own need.

## MODULARITY AS A CONCEPT

Tremendous amount of space can be saved by complimenting the different functionalities of the modules and its combinations which caters different objectives.







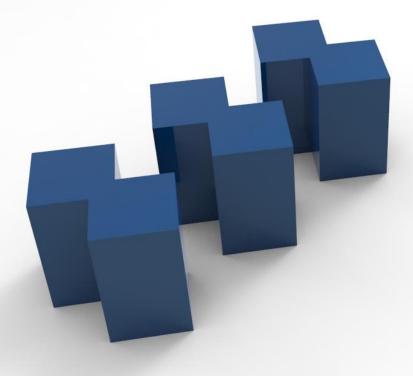
## STACKABILITY IN FURNITURES

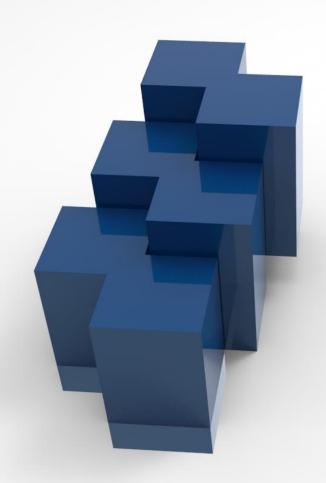






## MODULARITY IN STACKABILITY

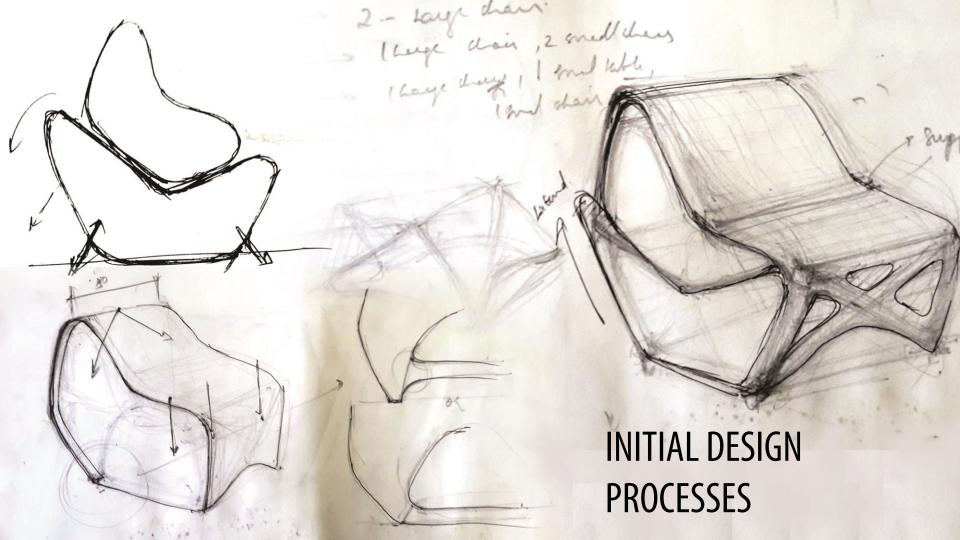


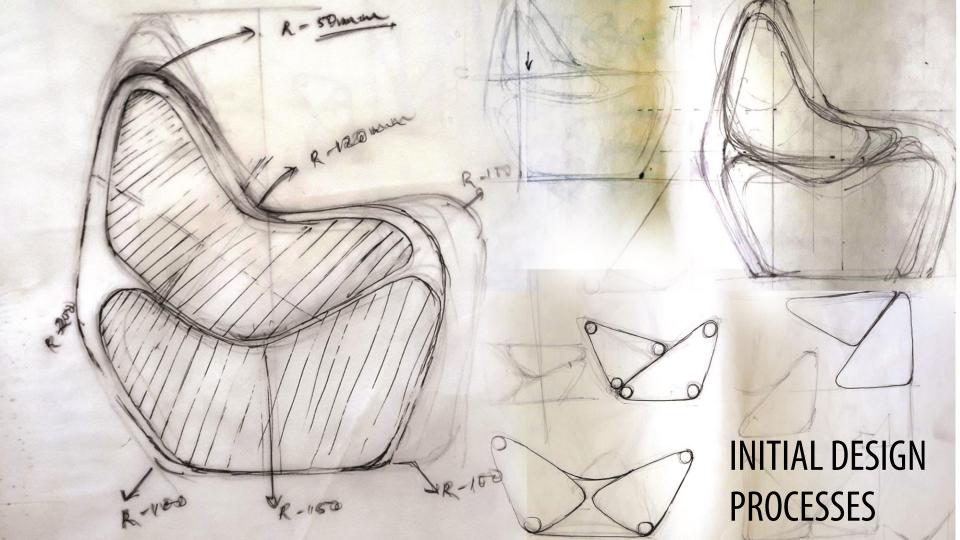


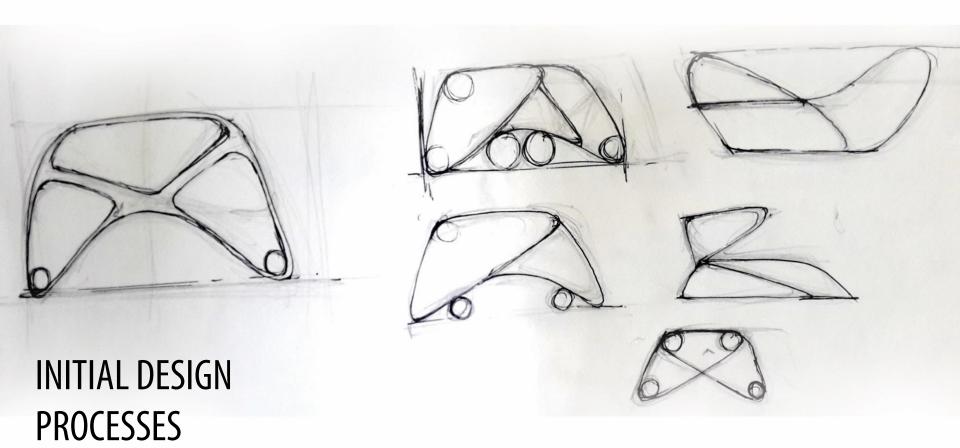




# TRYING OUT WITH BAMBOO BENDING











## MOLD FOR MAKING SCALED PROTOTYPE







### **SCALED PROTOTYPE**

(INITIAL STAGE)

### **IDEATION 1**







Low seating coffee chair

Low table

Lounge chair

### WHOLE UNIT





#### LOW SEATING CHAIR



### **LOW TABLE**





LOUNGE CHAIR















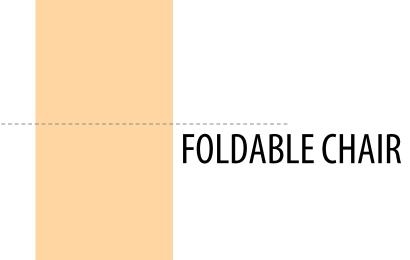












### Brief

Foldable chair

Cost effective

Minimum usage of additional materials

Round bamboo to be used to reduce the cost.

### Material

Bamboo (strictus)













SCALED PROTOTYPE



## IN THE PROCESS OF MAKING

# FINAL PROTOTYPE









FINAL PROTOTYPE









### SHADE FOR ENTRANCE DOOR



EXISTING

**PROPOSAL** 







# BAMBOO TOY EXPLORATION



### Brief

- To design a DIY bamboo toy with the concept of imageries of animals
- Completely using bamboo joineries.
- Geometricizing the design according to the imageries.





