Product Design 02

Wooden Toy Design

Task 01



Design Brief

To design a wooden toy for children aged 9-15 months inspired from a selected animal, biomimicking its actions in order to provide the child with a playfull experience of the animal.

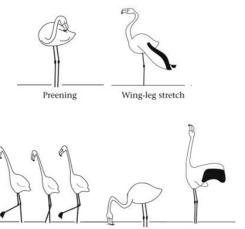
Design Criteria:

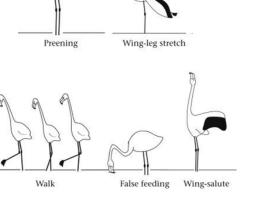
- Toy to be made in either in plywood/mdf/wood.
- Age group for toy to be considered is 9 to 15 months.
- Toy should be operated by either pulling or pushing.
- The colours and form used should be user friendly.
- Toy to be designed for indoor scenario.

01: Flamingo

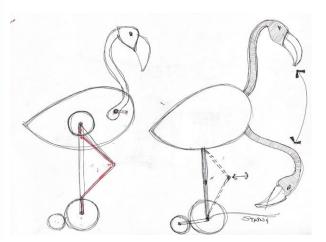


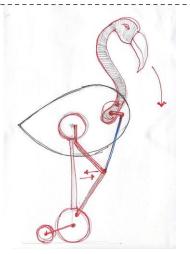








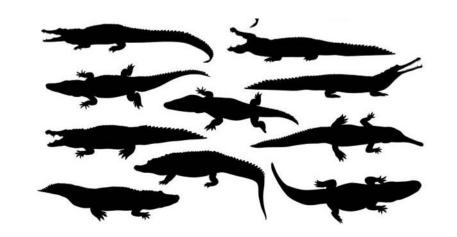


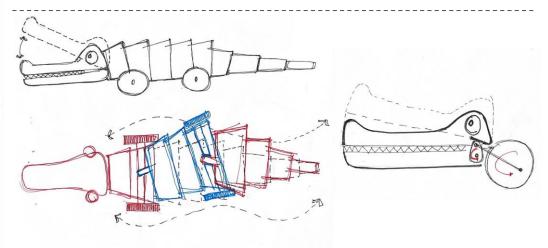


02: Crocodile

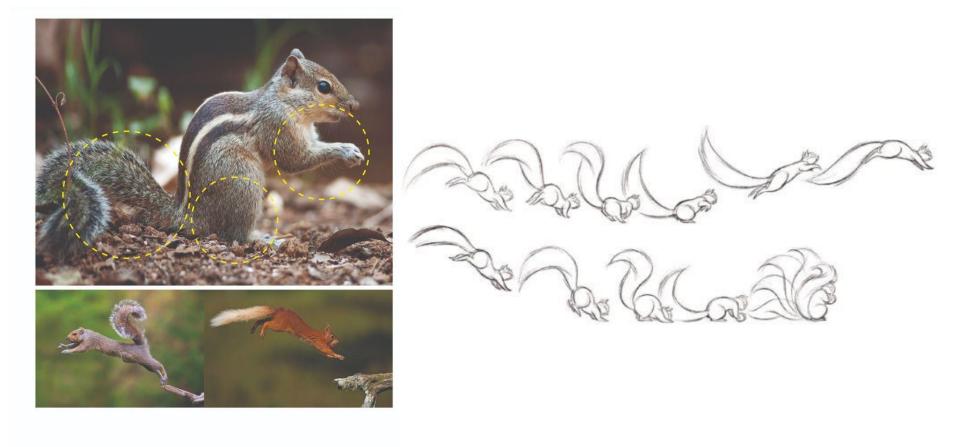






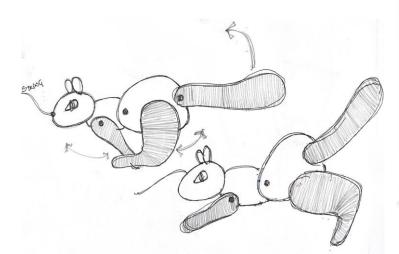


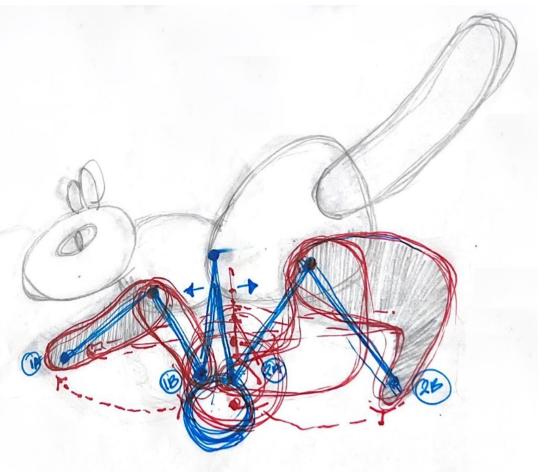
03: Squirrel



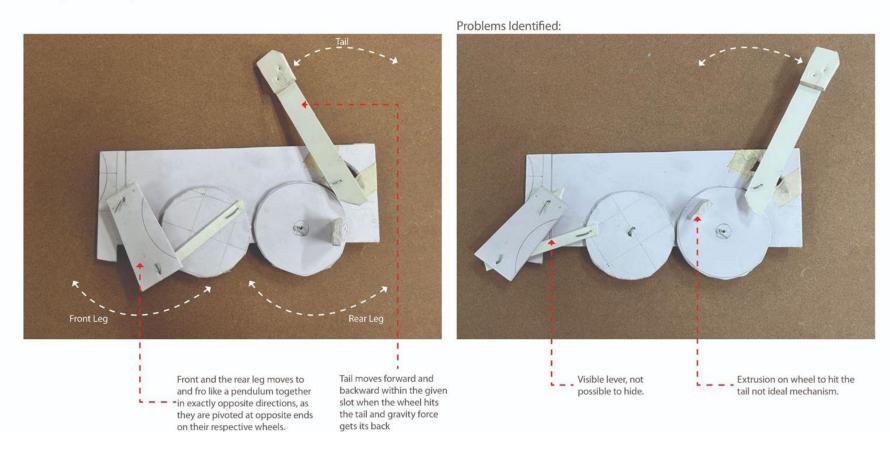


Squirrel 2d Concept Drawing:

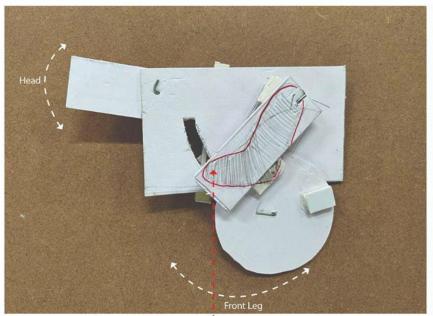




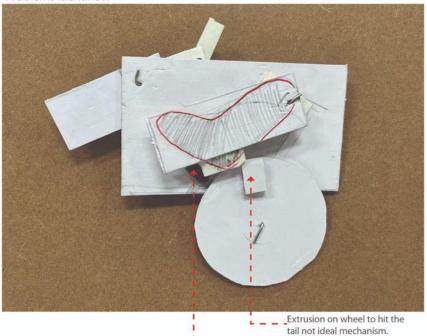
Dirty Prototype 01:



Dirty Prototype 02: Attempt to avoid levers



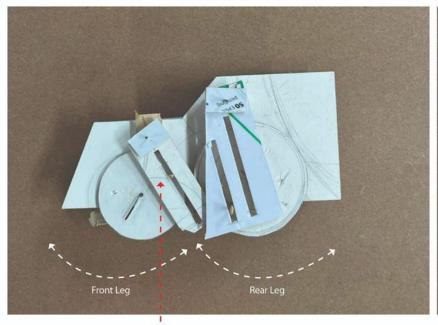
Problems Identified:



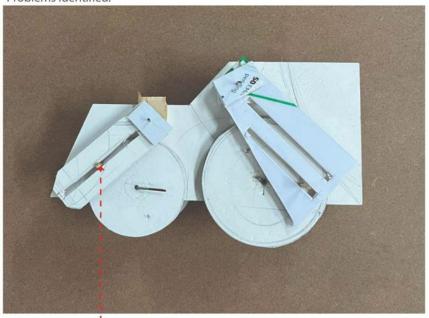
Front and the rear leg moves to and fro like a pendulum together in exactly opposite directions, as extrusion on wheels hits them at opposite ends at the same time.

Slot makes it difficult for smooth movement

Dirty Prototype 03: Attempt to avoid extrusions on wheels

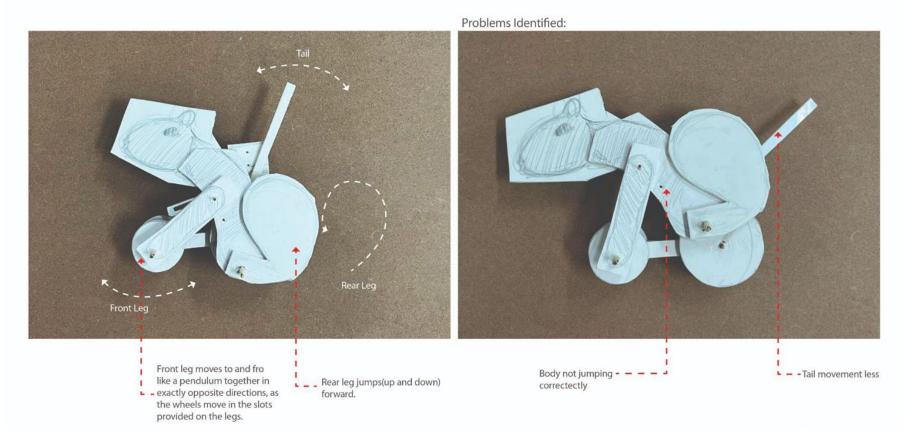


Problems Identified:



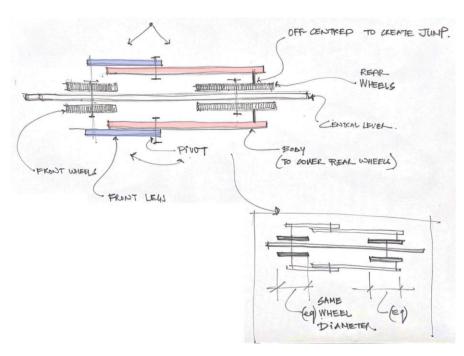
Front and the rear leg moves to and _fro like a pendulum together in exactly opposite directions, as the wheels move in the slots provided on the legs. Slot provided in the both the legs make it difficult for the co-ordination

Dirty Prototype 04:

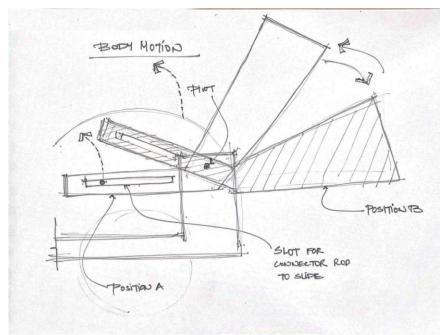


Sketches

Body Motion Mechanism:



Tail Motion Mechanism:



Dirty Prototype 05:

