



EXPLORATION IN CERAMICS & DEVELOPMENT OF HANGING FLOWER POT CUM LIGHTING PRODUCT

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Why Shantiniketan and why ceramics

Shantiniketan one of the renowned place in India for art and crafts being an engineer turned design student, I would like to expose myself in crafts and craft based design for a holistic design approach. which would introduce me to a new perspective of product design.

From the discussion and suggestions from Prof.Rao, Prof.Sandesh and Prof.Kumar Esan the idea of doing the internship in Santhinikethan seems convincing .

As a product design student I am very keen to work with lighting design, and from the facilities of shantinikethan pottery is one of the suitable medium to pursue my interest. Hence I choose ceramics as my area of internship.

WHAT IS CERAMICS ?



- A ceramic is an inorganic, nonmetallic solid prepared by the action of heat and subsequent cooling. Ceramic materials may have a crystalline or partly crystalline structure
- When any clay article is hardened by firing to make it permanent then it becomes ceramic
- The word "ceramic" comes from the Greek word κεραμικός (*keramikos*), "of pottery" or "for pottery"

Different applications of ceramics

- Art and craft
- Structural, including bricks, pipes, floor and roof tiles
- Whiteware, including tableware, cookware, wall tiles, pottery products and sanitary ware
- Space Shuttle program, gas burner nozzles, ballistic protection, nuclear fuel coatings of jet engine turbine blades, ceramic disk brake, missile nose cones, bearing (mechanical)
- Ornamental objects like necklace, ear rings etc.



Types of ceramics

1. Terracotta –firing temperature 750-1000 degree C



4. Porcelain –firing temperature 1200-1400 degree C



2. Stoneware –firing temperature 1180-1280 degree C



3. Bone china –firing temperature 1050-1100 degree C



Advantageous and properties of ceramic

Advantageous

- High hardness
- High mechanical strength
- Dimensional stability
- Resistance to corrosion or chemical attack
- Weathering resistance
- High working temperature
- Low thermal conductivity
- Good electrical insulation

Properties

- Plasticity
- Porosity
- Malleability
- Texture
- Color

Different process in pottery

Pinching process



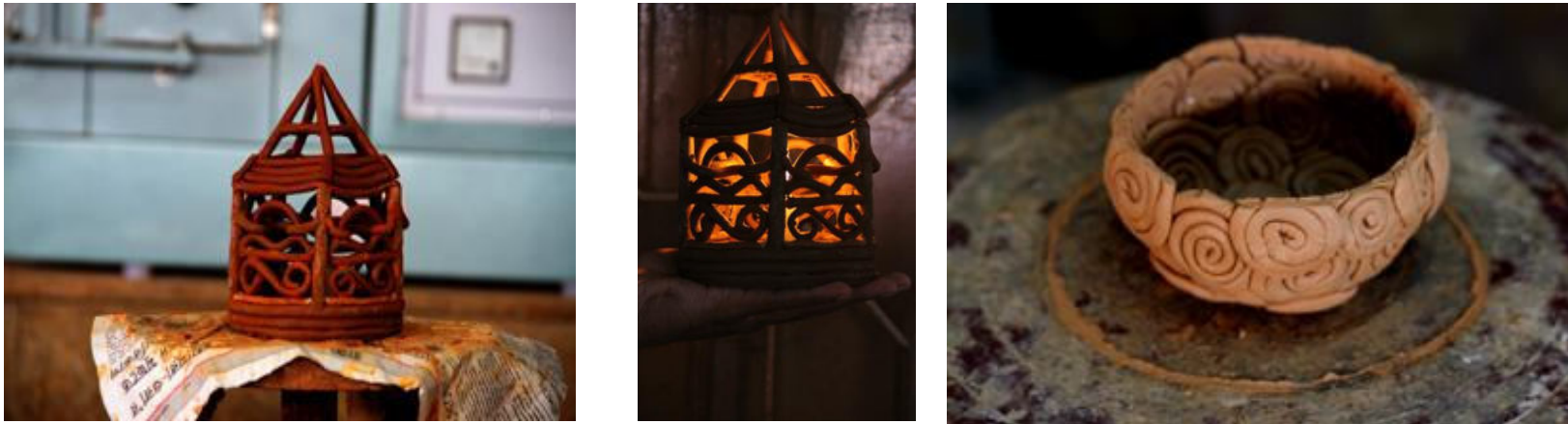
Hand on experience in Pinching process: form exploration in tea pot



Coiling process



Hand on experience in Coiling process: Candle shade and bowl



Slab making process



Hand on experience in Coiling process: geometric shape exploration
and tea pot design



Throwing process



Hand on experience in Throwing process



Slip casting



DEVELOPMENT OF HANGING FLOWER POT CUM LIGHTING PRODUCT

Design brief

To design and development a hanging flower pot cum lighting product in ceramics for house boats, resorts and Kerala style homes. Which will be emphasis the Kerala cultural and traditional arts.

Objectives

- To understand and get hand on experience in different process in pottery
- Observe and study the Kerala traditional art and festivals
- Express Kerala traditional art and festivals through product

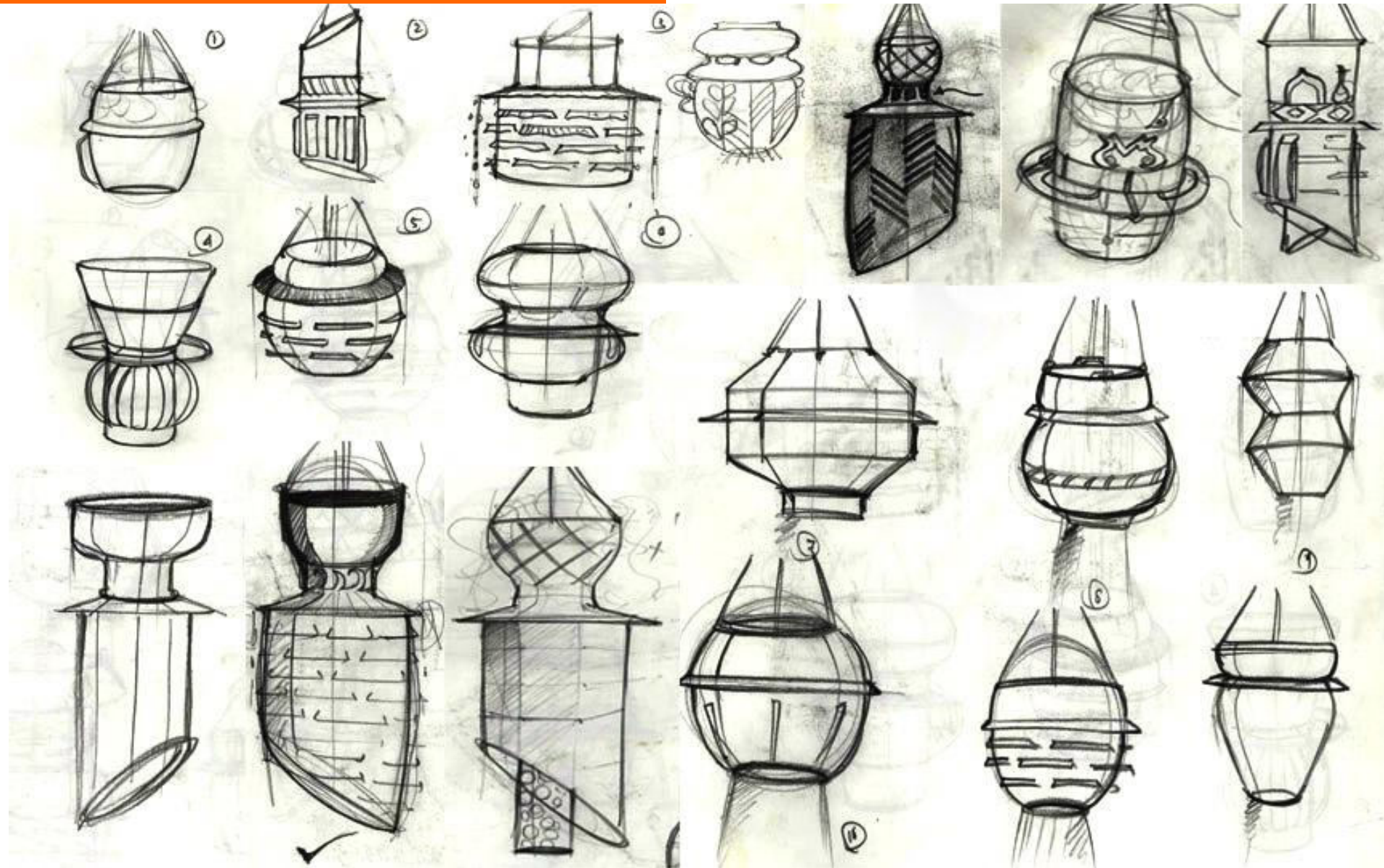
Study parallel products in the market



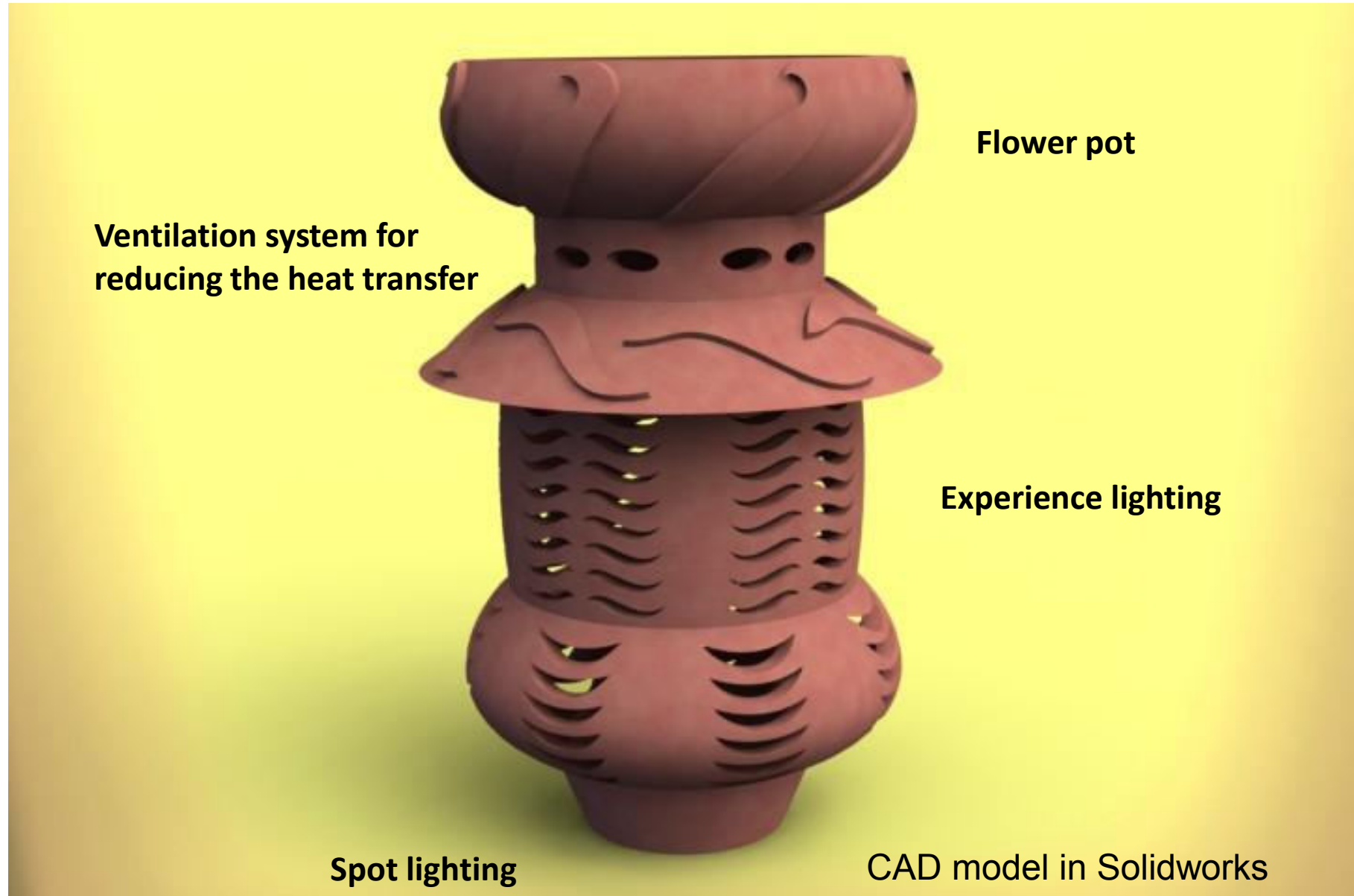
Mood board



ideation



Final concept

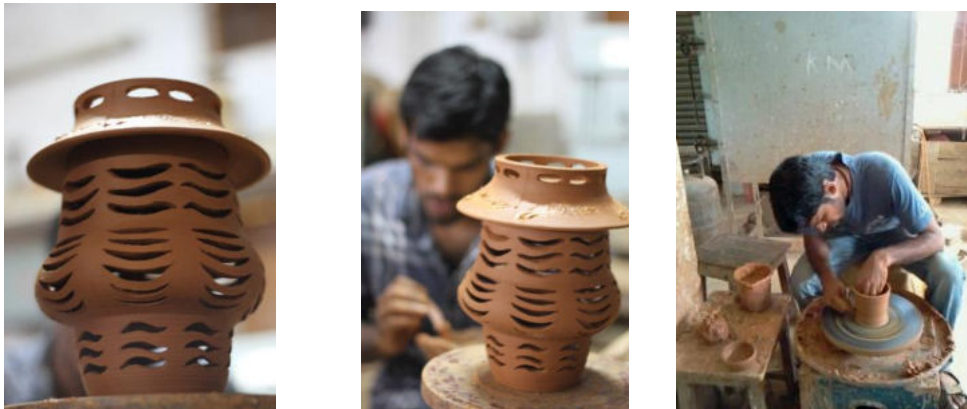


Model making

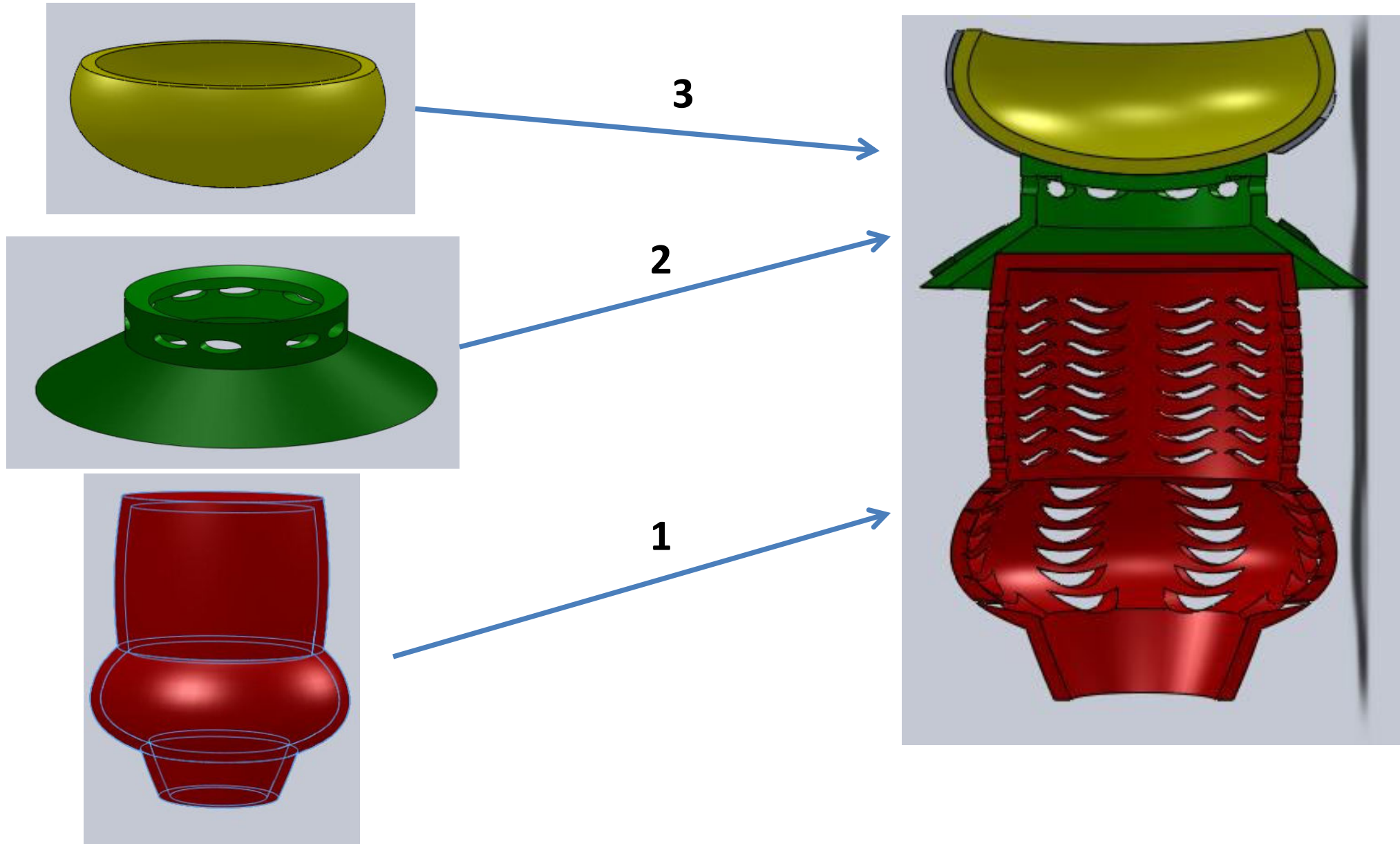
1.Preparing the clay



2.Throwing



Throwing different parts and assembling



Decorating the product



Decorating the product



Final product



Reference

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Thank you