



A product lighting design “mood light” inspired by the beauty of Islamic geometric patterns.

The “Mashrabyeh” design reflects an aesthetic light, producing a comfortable setting that bridges the gap between traditional Islamic aesthetic and contemporary design living.

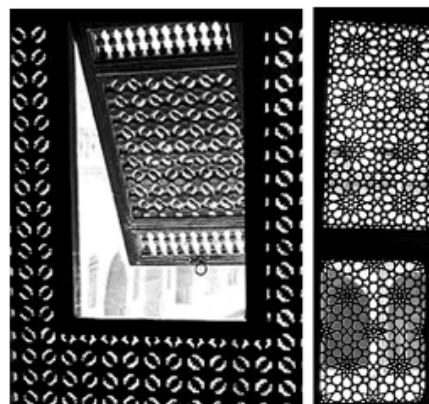
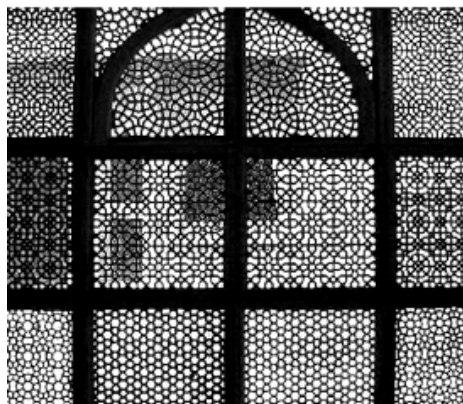
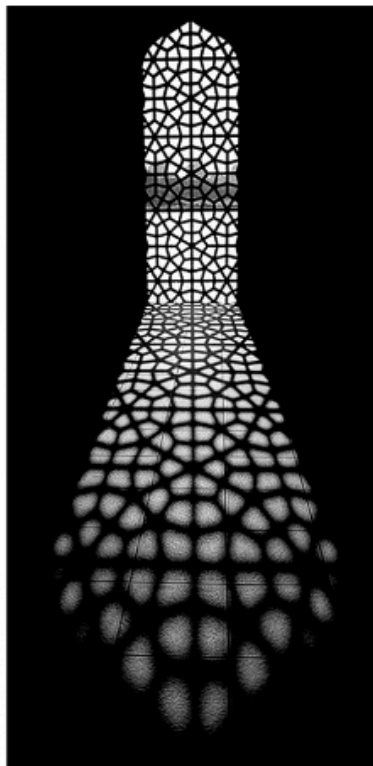
Project Concept

1.1 Concept

Inspired by the intricate geometry of Mashrabiya patterns, I aim to design a table lamp that embodies these shapes. This lamp will integrate the delicate and precise geometric motifs characteristic of Mashrabiya, creating a piece that not only illuminates but also serves as a testament to the timeless elegance of traditional Islamic art

Project Concept

Inspiration board

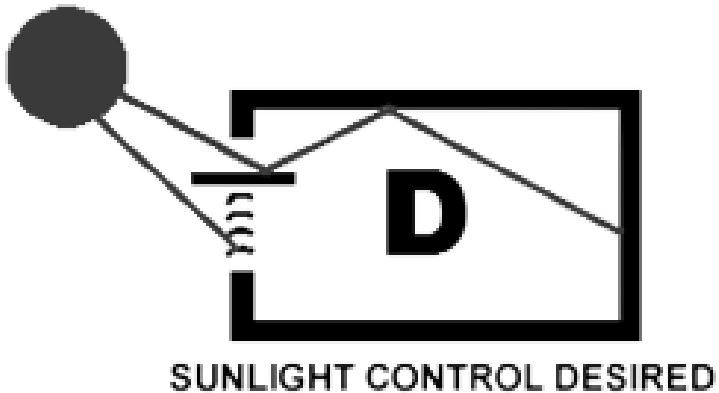


Project Concept

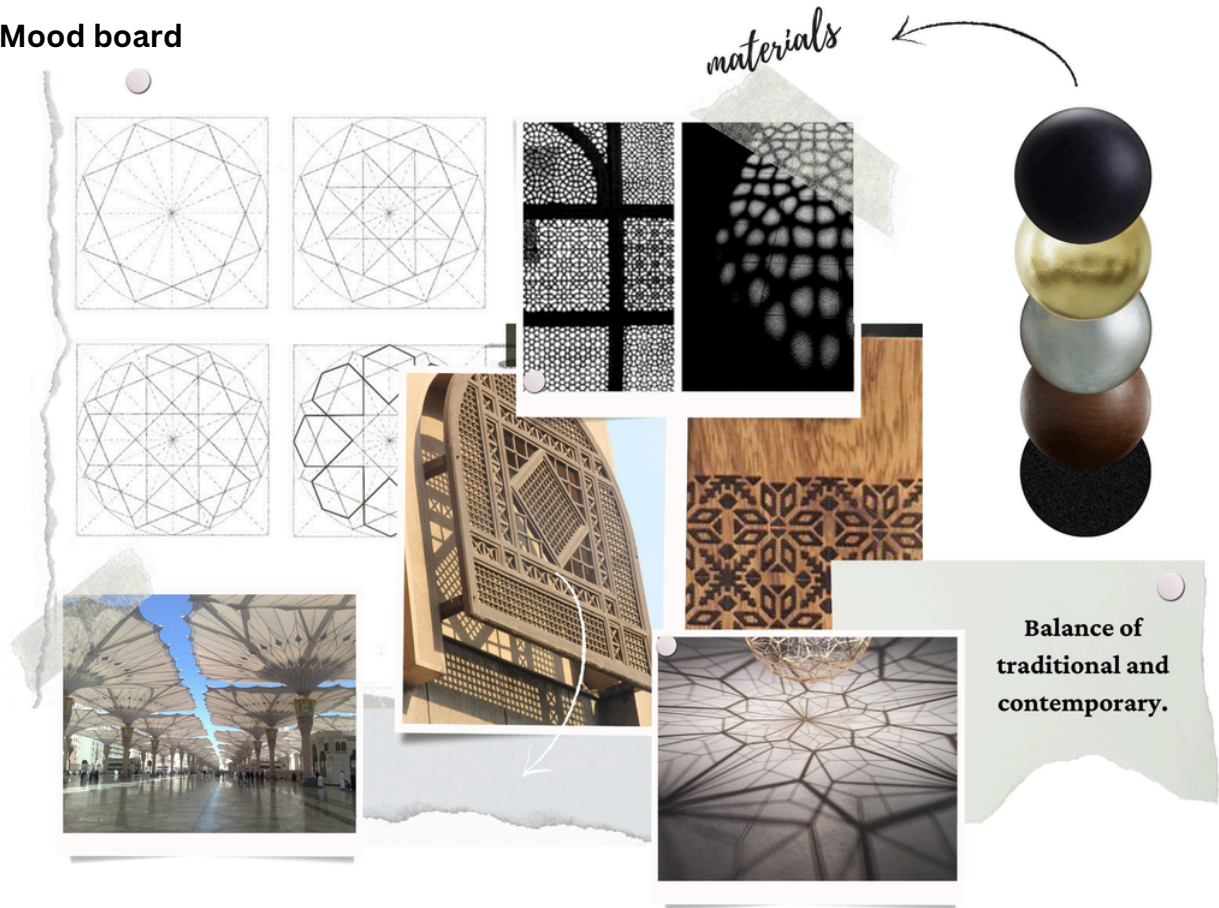
1.2 Design Criteria

Design must have

- Reflect geometric and motifs patterns.
- patterns can be changed as desired.
- controlled access to light.
- use different materials to mix and match between components.



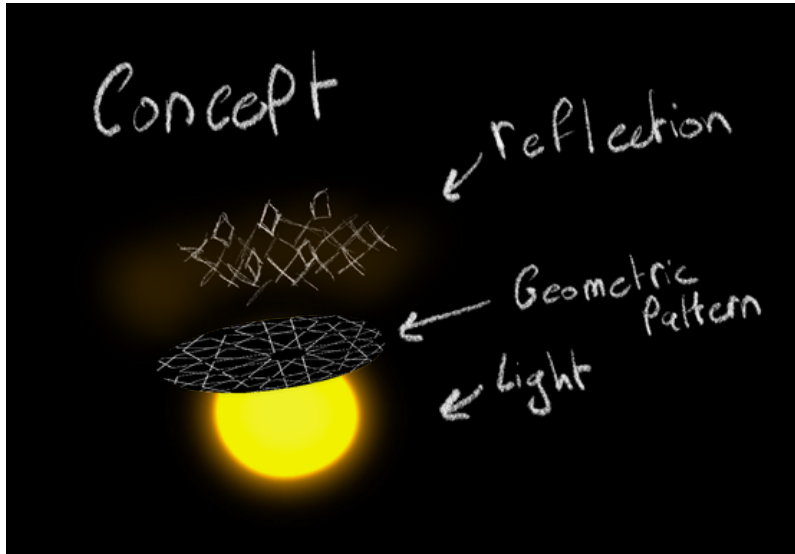
1.3 Mood board



Project Concept

1.4 Mechanism Ideation

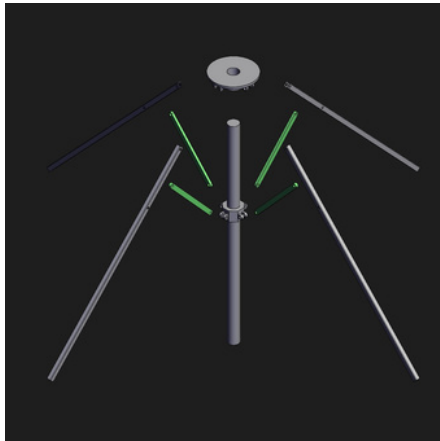
- Umbrella mechanism
- Iris shutter mechanism



Project Concept

Mechanism I: Umbrella mechanism

We can change the radius, that open and close the umbrella mechanism by pushing the ribs closer and pulling them outward by shifting the runner up and down.

**Pros:**

can be either hand powered or motorized.

can be used in different orientations and use multiple parts in a single fixture.

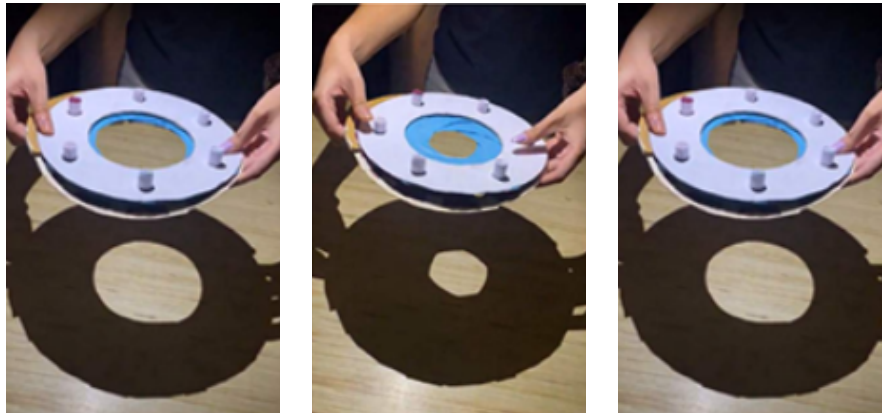
Cons:

motorizing the mechanism can use a lot of space.

Project Concept

Mechanism II: Iris shutter mechanism

The iris shutter mechanism works like a camera lens, it can open and closes the aperture.

**Pros:**

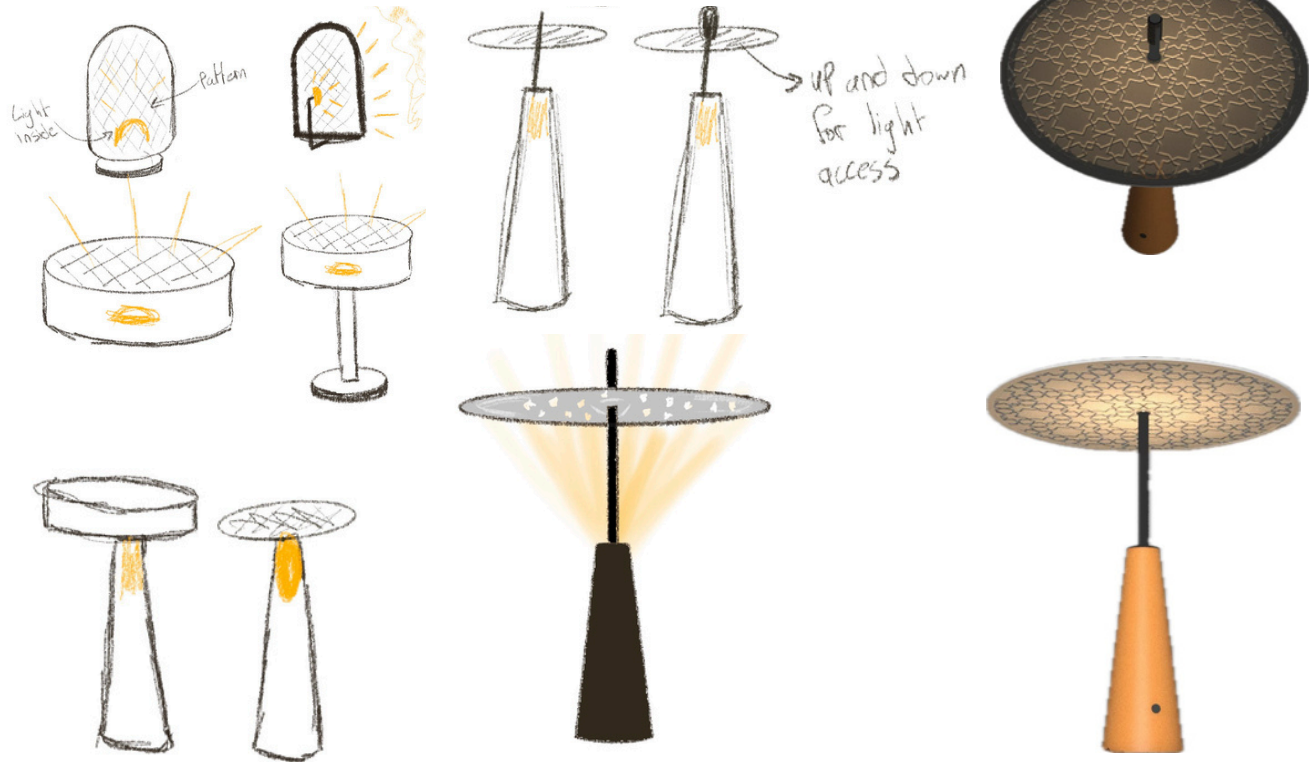
only single stable light source is needed. As the aperture radius increases and decreases, the light radius also changes without having to move the light source

Cons:

Materials used should be lightweight and the casting should be sturdy to keep the part stable.

Project Concept

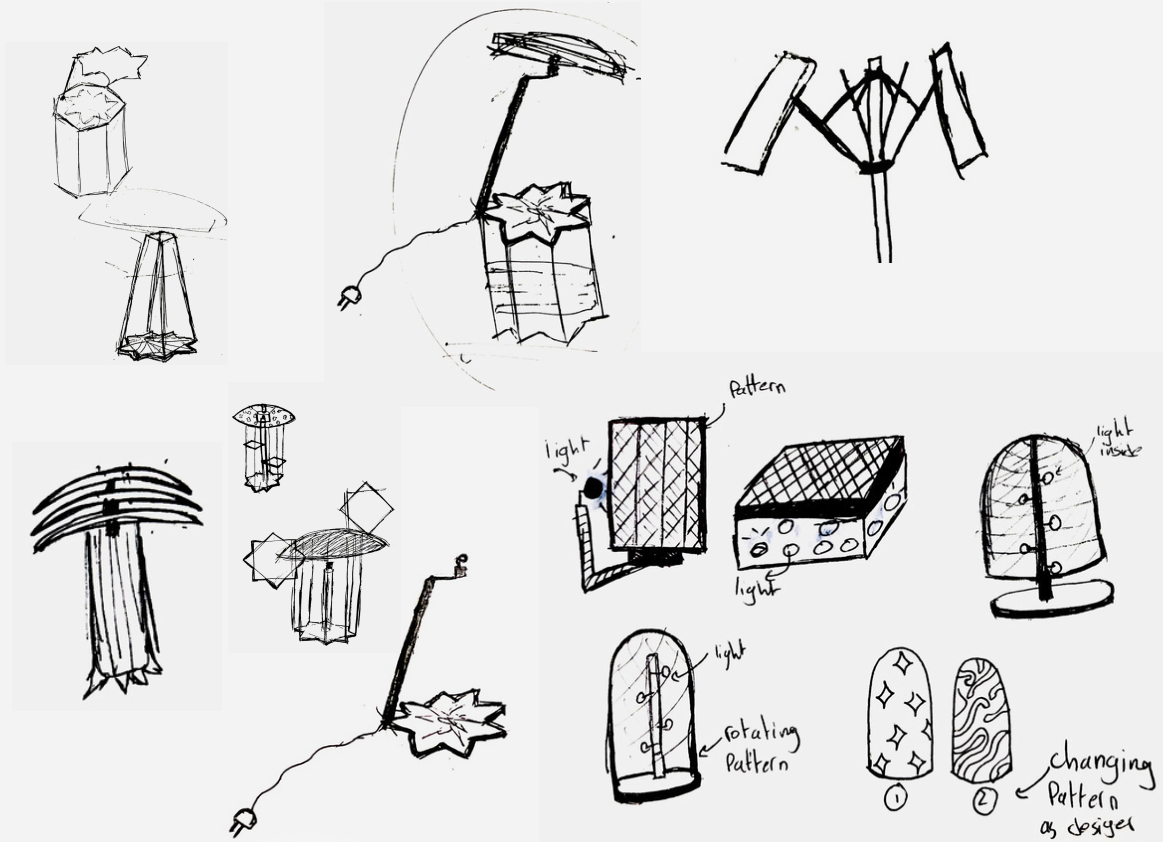
1.5 Form Ideation



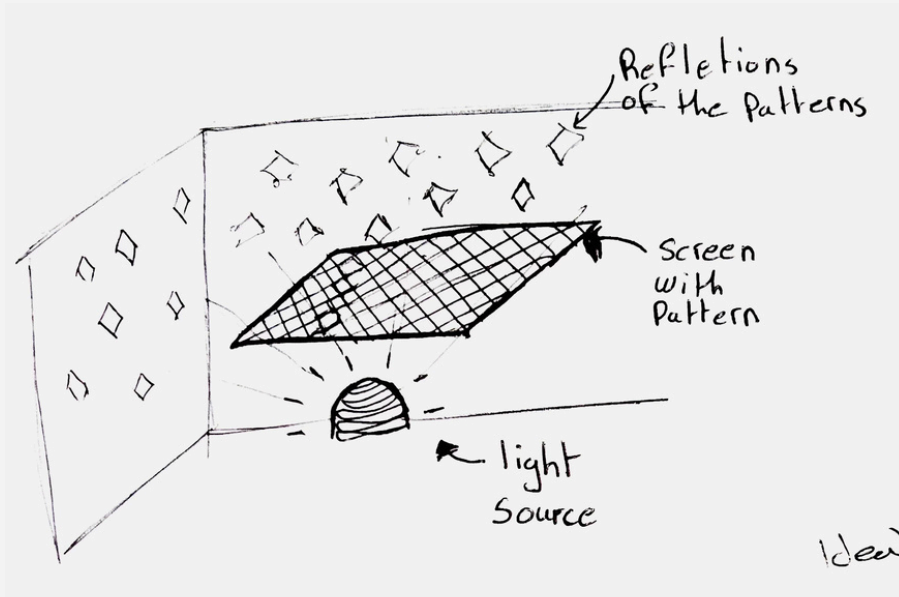
Project Concept

conceptualization

1.5 Form Ideation

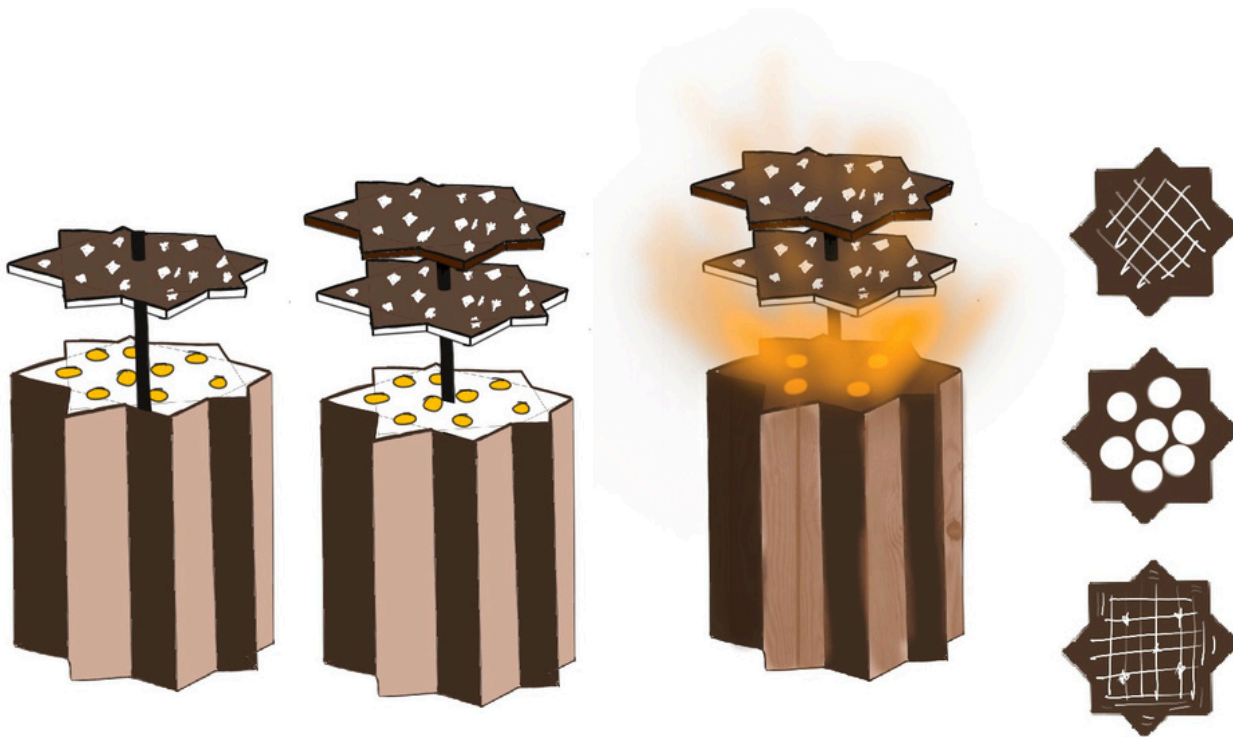


Project Concept



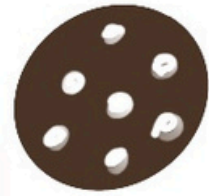
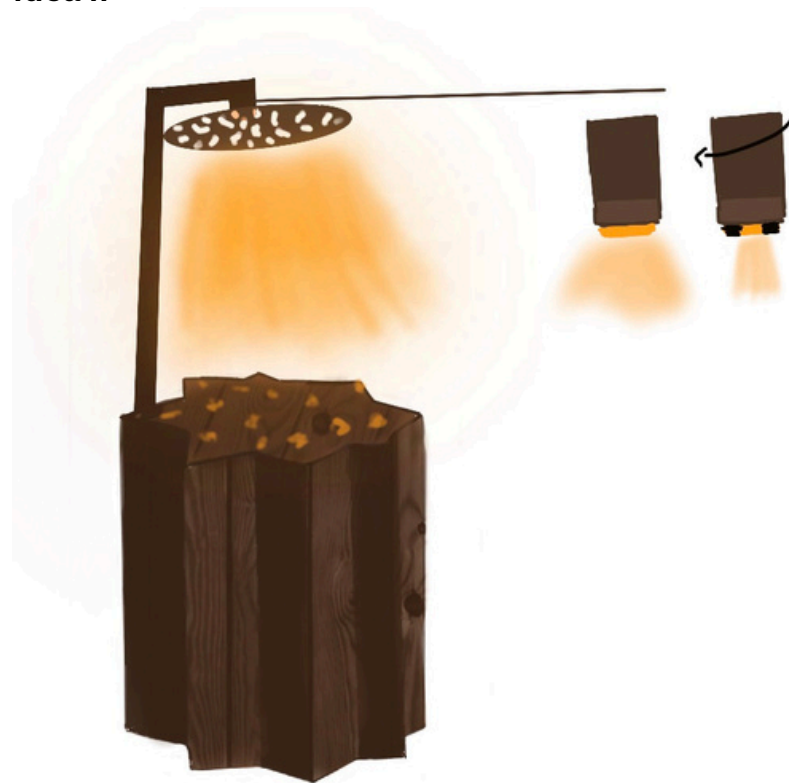
Project Concept

Idea I



Project Concept

Idea II

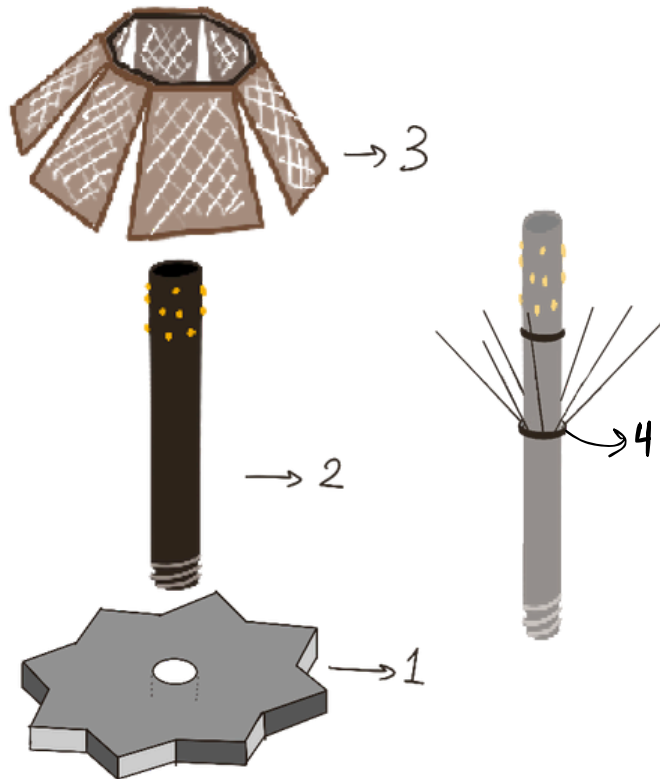


Project Concept

Idea III



Final Form and mechanism



Umbrella mechanism

We can change the radius, that open and close the umbrella mechanism by pushing the ribs closer and pulling them outward by shifting the runner up and down.

we can have more light when this ribs are pulled up and more controlled access to light when it is pulled down

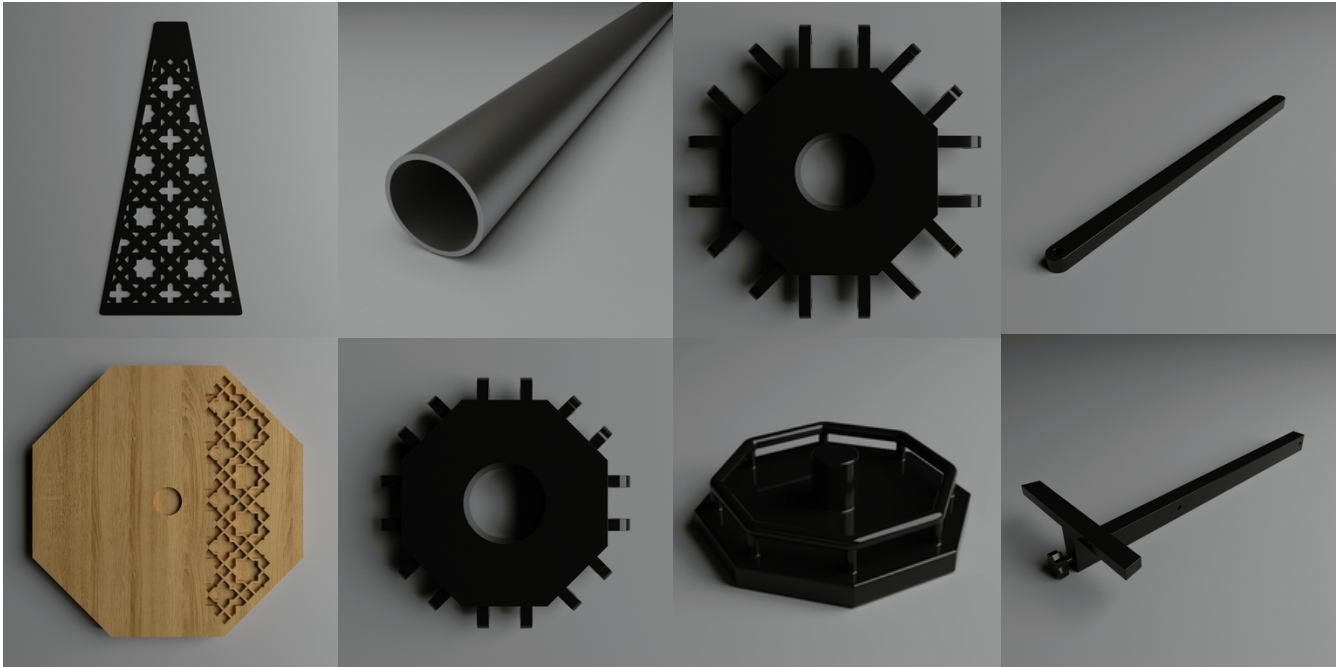
Design direction

2.0 Design details



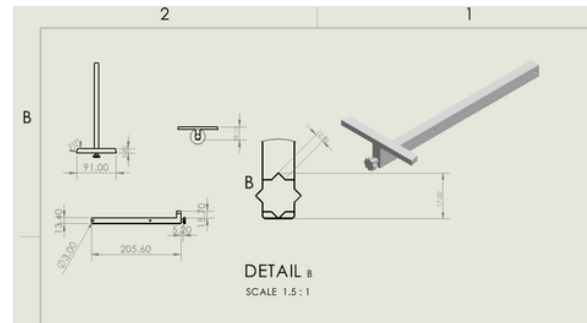
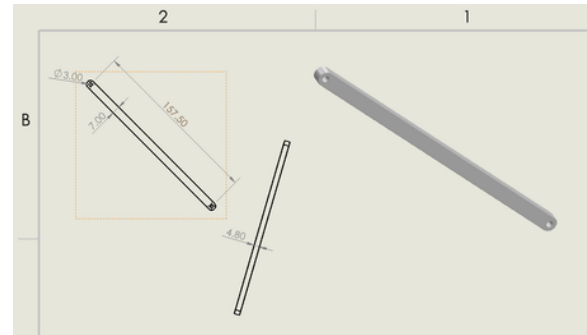
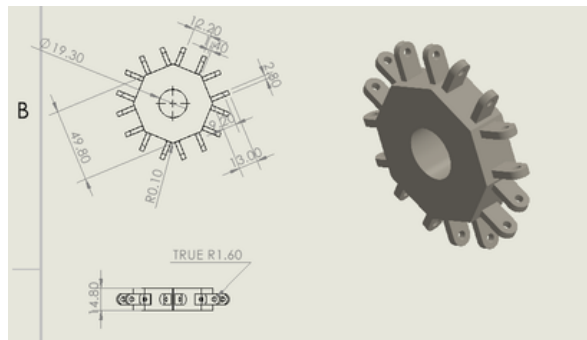
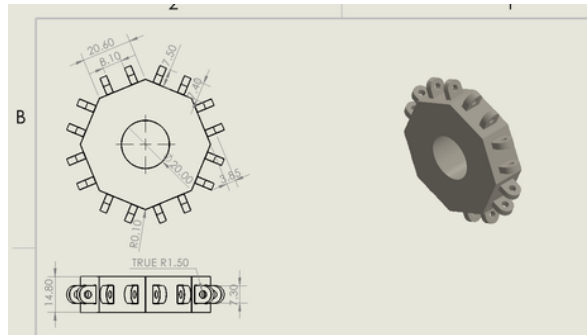
Design direction

2.1 Design Components



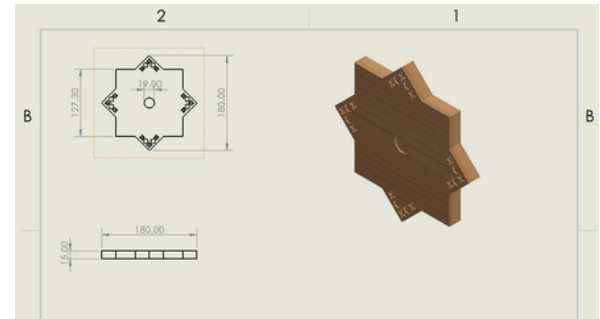
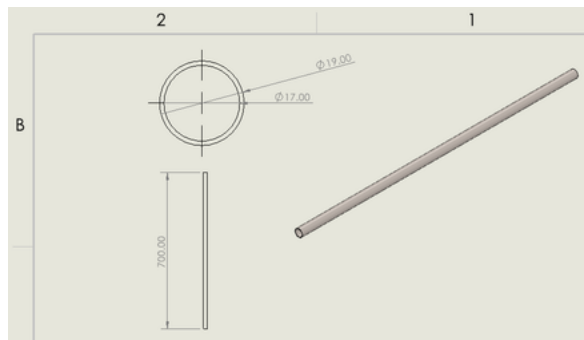
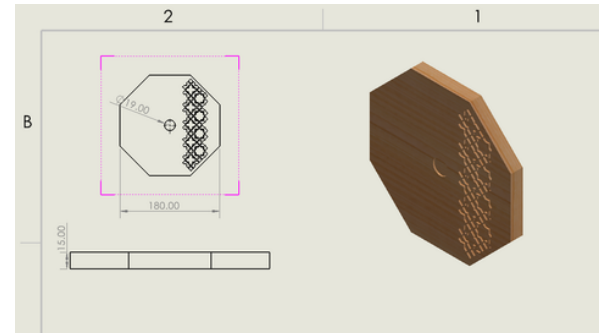
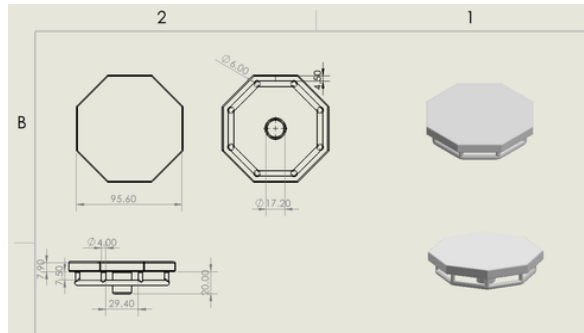
Design direction

2.3 Technical drawings



Design direction

2.3 Technical drawings



Design direction

2.4 Product details



Umbrella mechanism:

Black PLA 3D printed parts

Table lamp pipe:

stainless steel pipe

Table lamp base:

Wooden base with
different finishes

Blades:

black acrylic with different
finishes

Light choice:

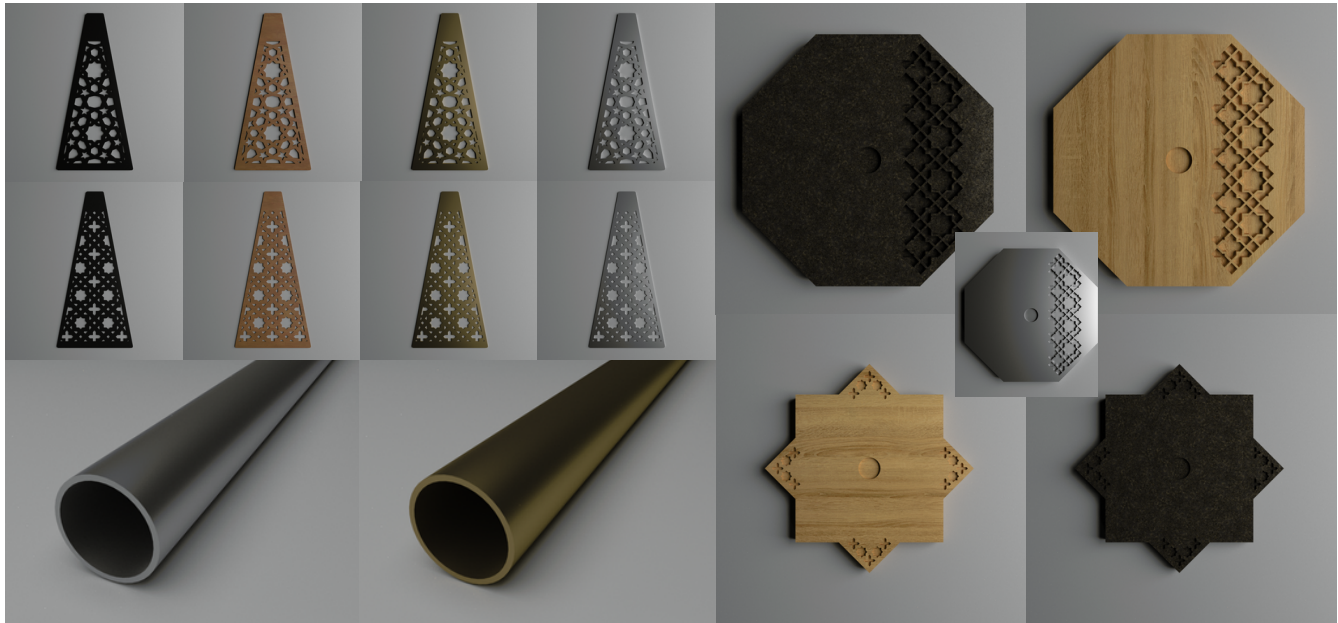
COB LED light

3W

3500 warm light

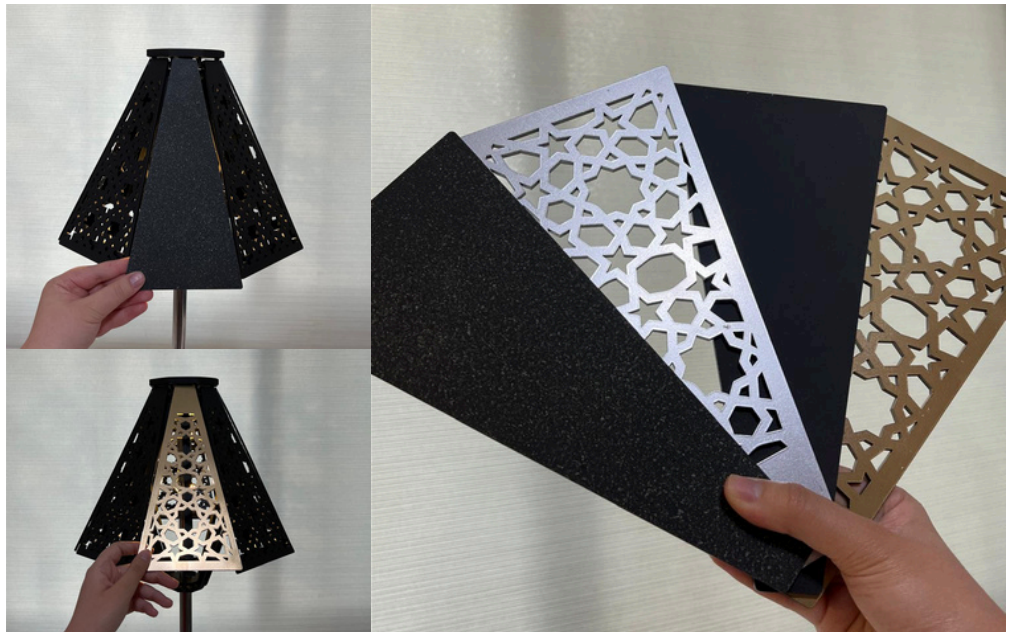
Design direction

2.5 CMF variations



Design direction

2.6 CMF variations



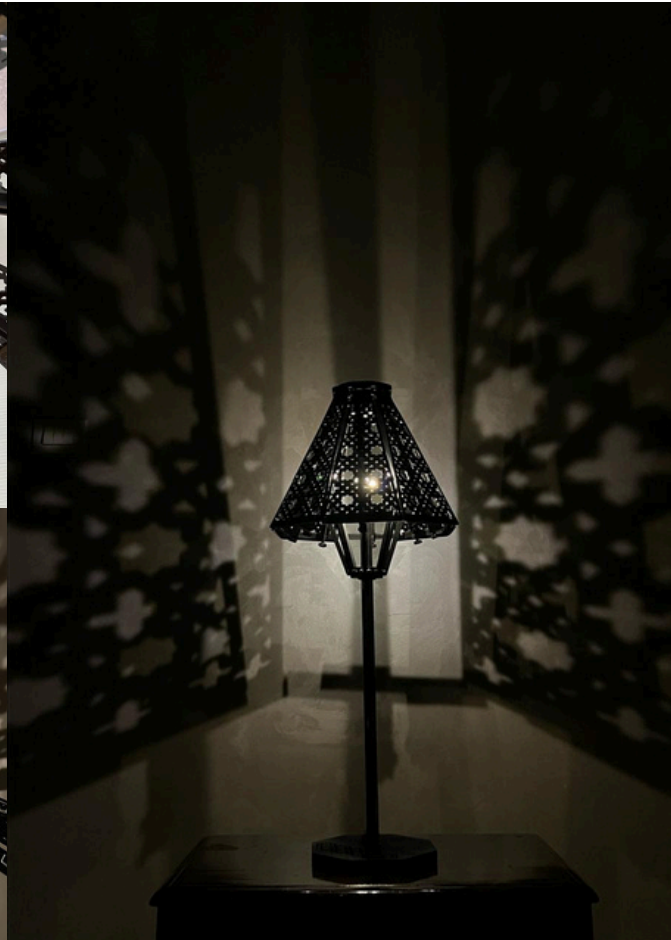
Design direction

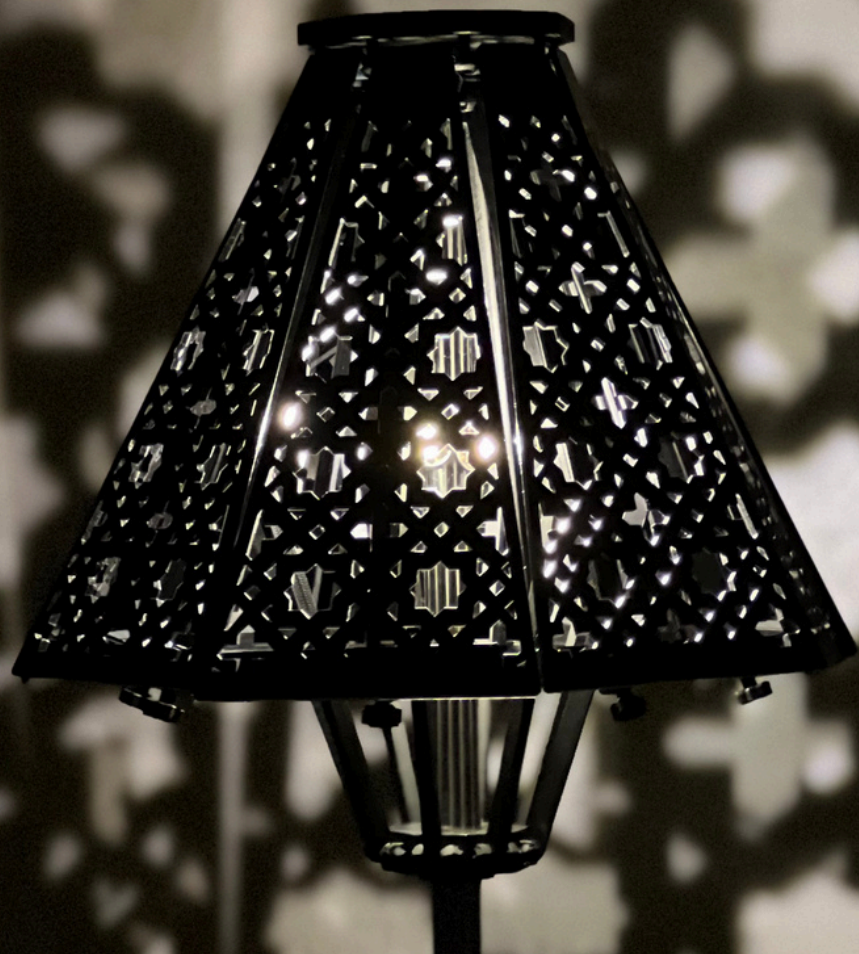
2.6 CMF variations

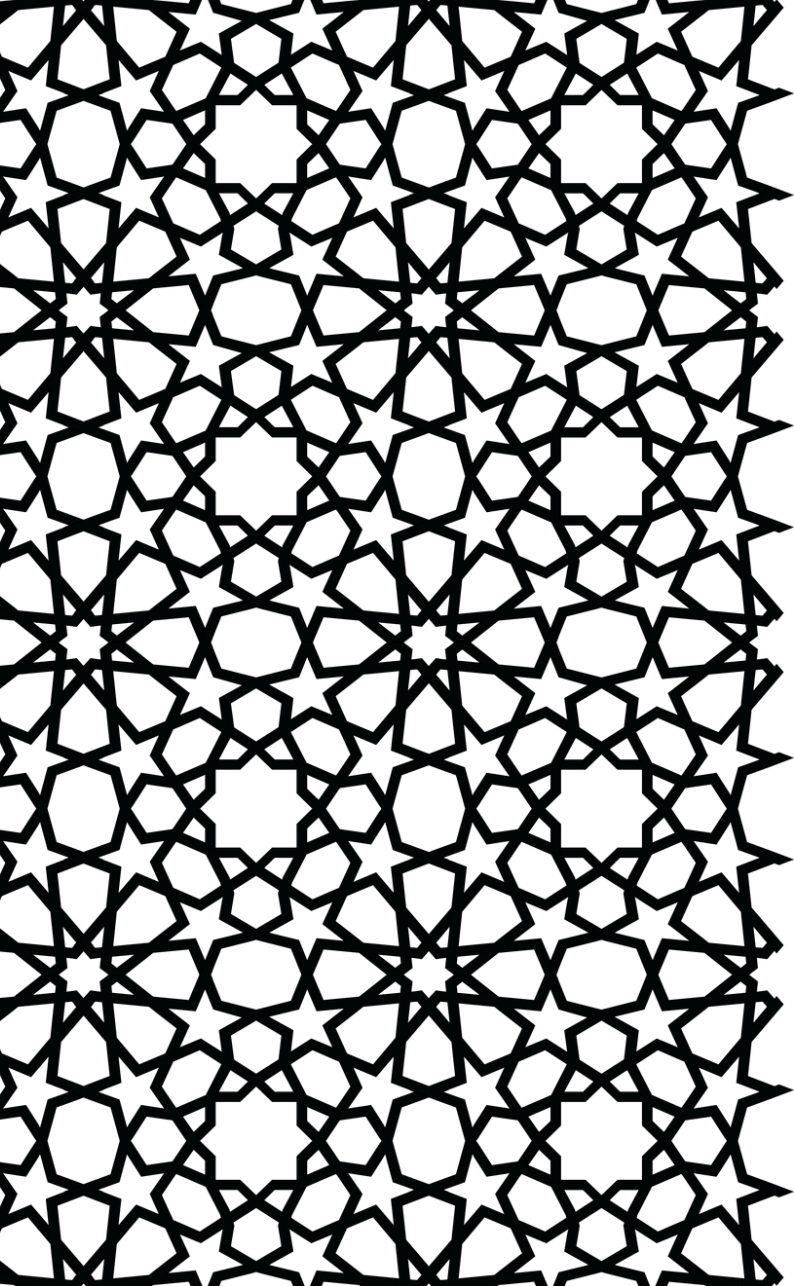


Design direction

2.7 Context pictures





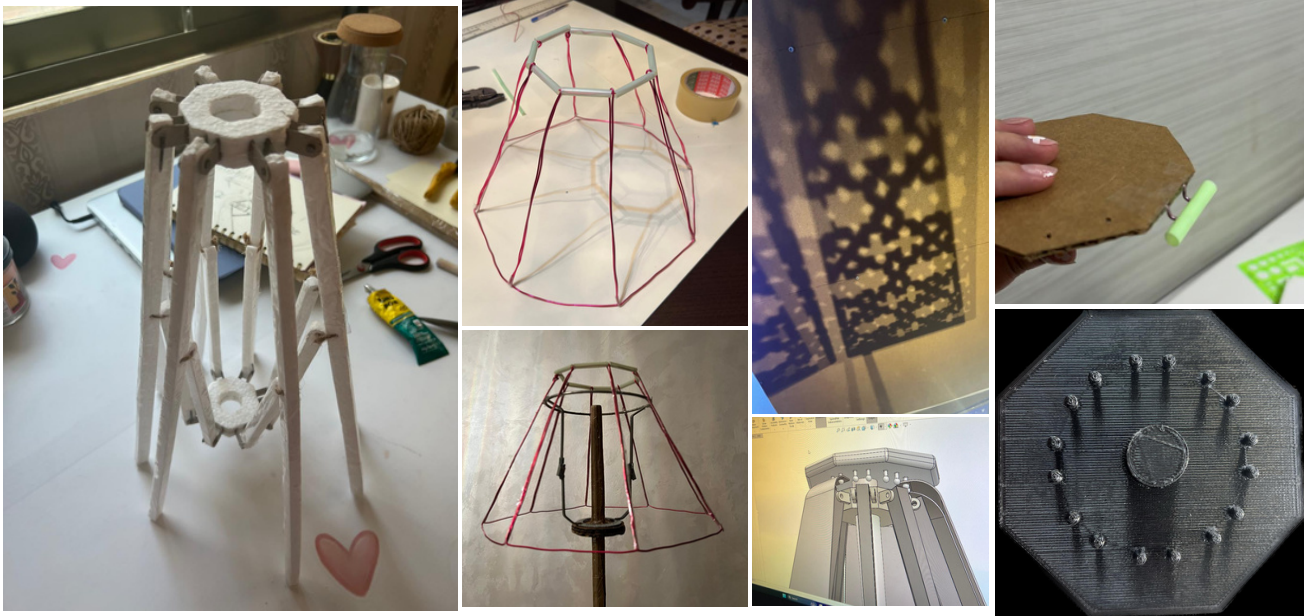


PROTOTYPING

The design comes to life via the use of actual materials, touch, and experience. this section emphasizes the materials and methods to produce final prototype.

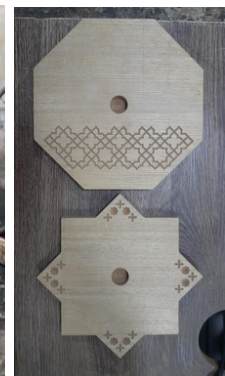
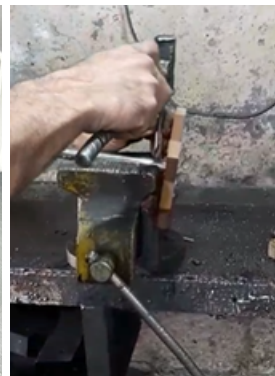
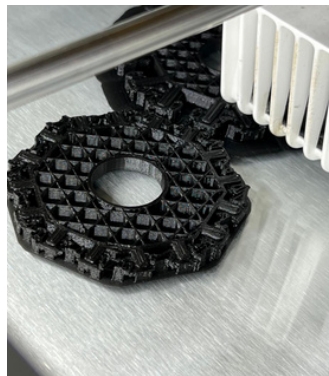
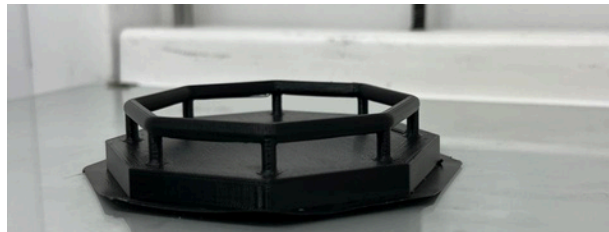
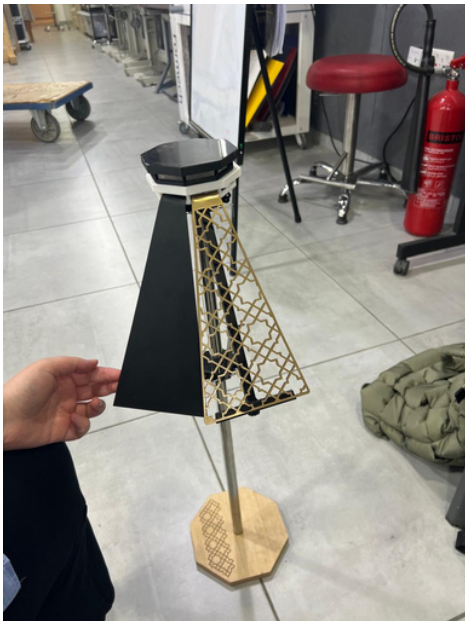
Prototype fabrication

3.0 Prototype process



Prototype fabrication

3.0 Prototype process



Prototype fabrication

3.1 Finished prototype



Prototype fabrication

3.1 Finished prototype

