

Studio Karel

Organizer

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2020-2021



CZECH
TECHNICAL
UNIVERSITY
IN PRAGUE

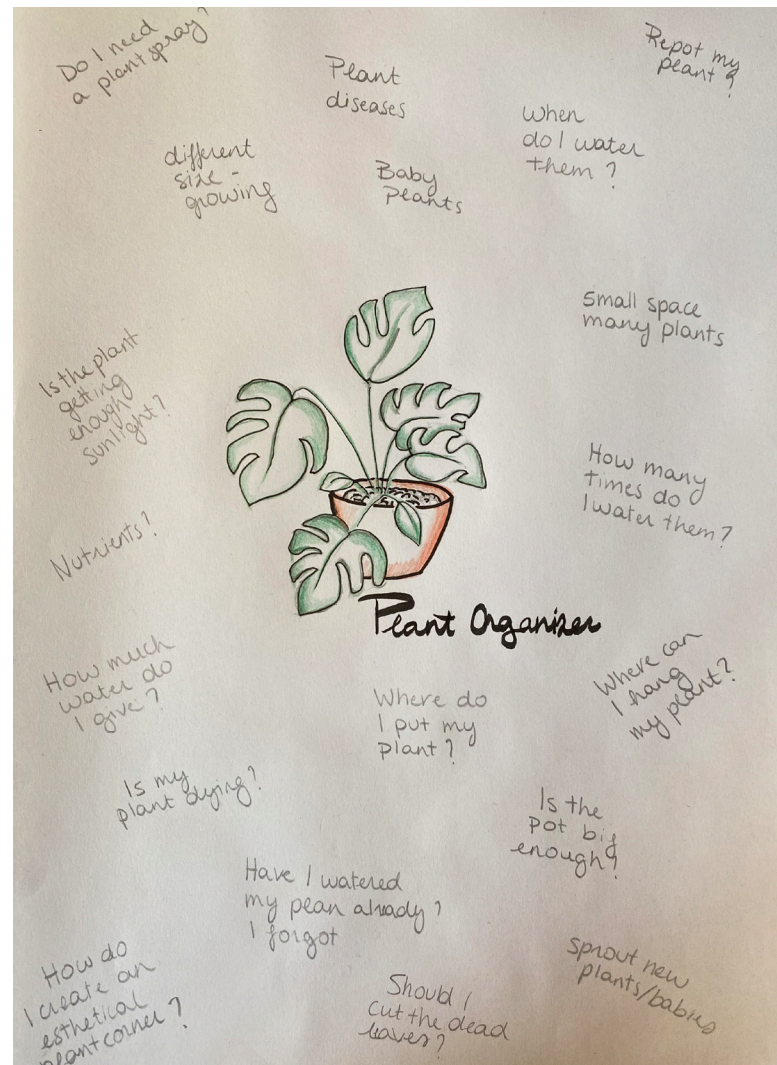


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|----------------------|---------------|
| DESIGN BRIEF | <i>p.1</i> |
| MOODBOARD STYLE | <i>p.2</i> |
| IDEATION | <i>p.3-4</i> |
| FIRST MODEL | <i>p.5</i> |
| IDEATION FINAL MODEL | <i>p.6</i> |
| FINAL MODEL | <i>p.7-10</i> |

DESIGN BRIEF

For this semester's studio I picked Atelier Karel. The first assignment had the topic 'Organizing'. This could be to organize anything. As I love plants I have decided to design a piece of furniture to organise plants.

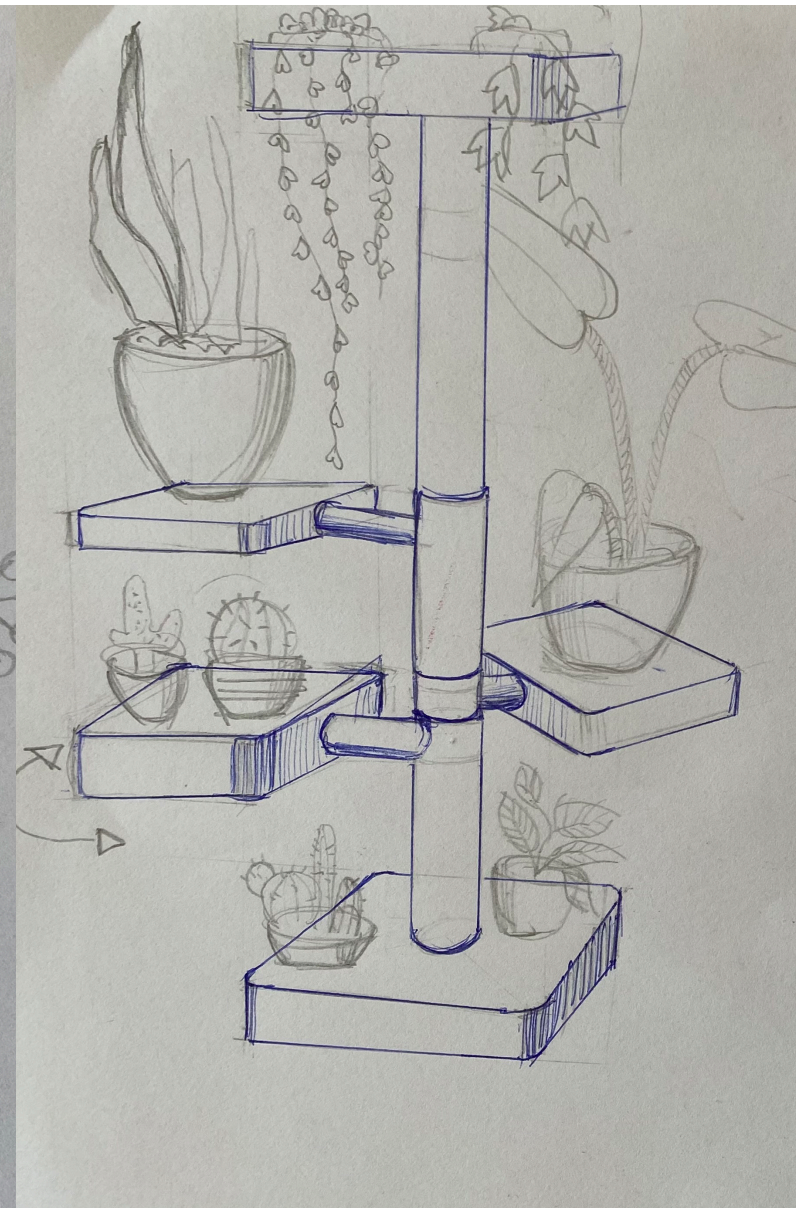
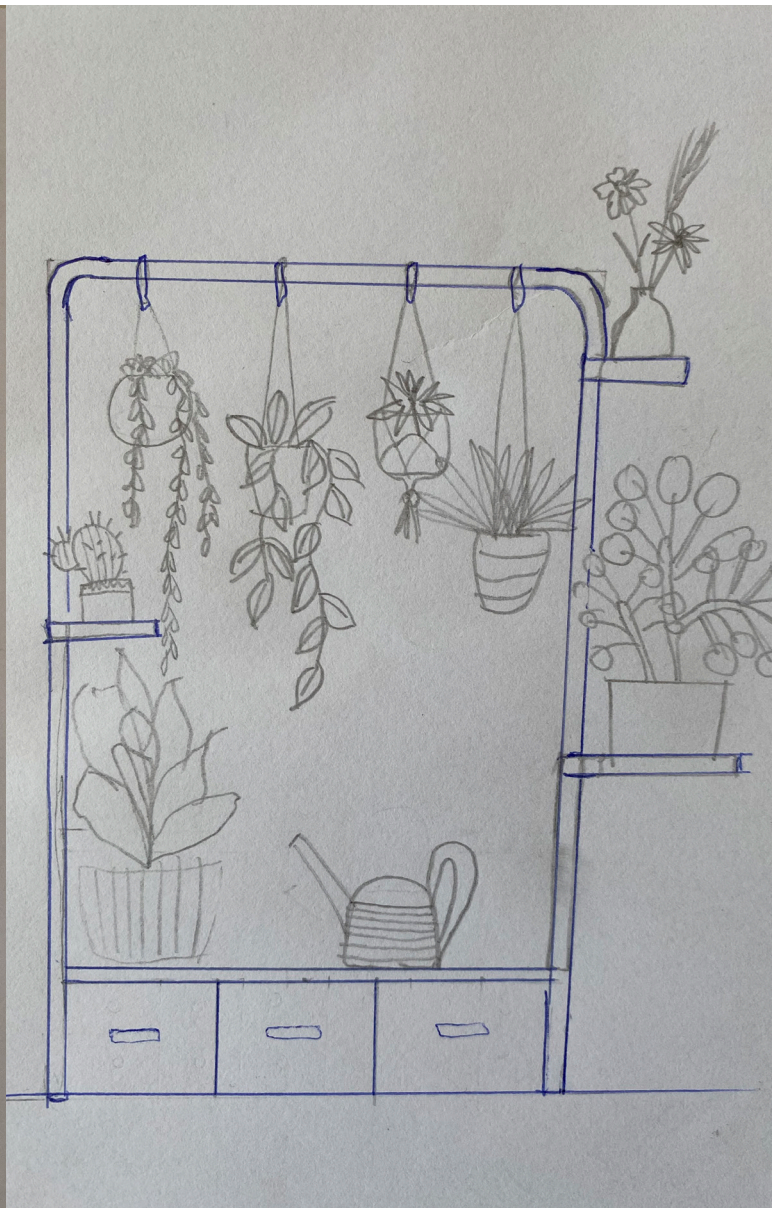
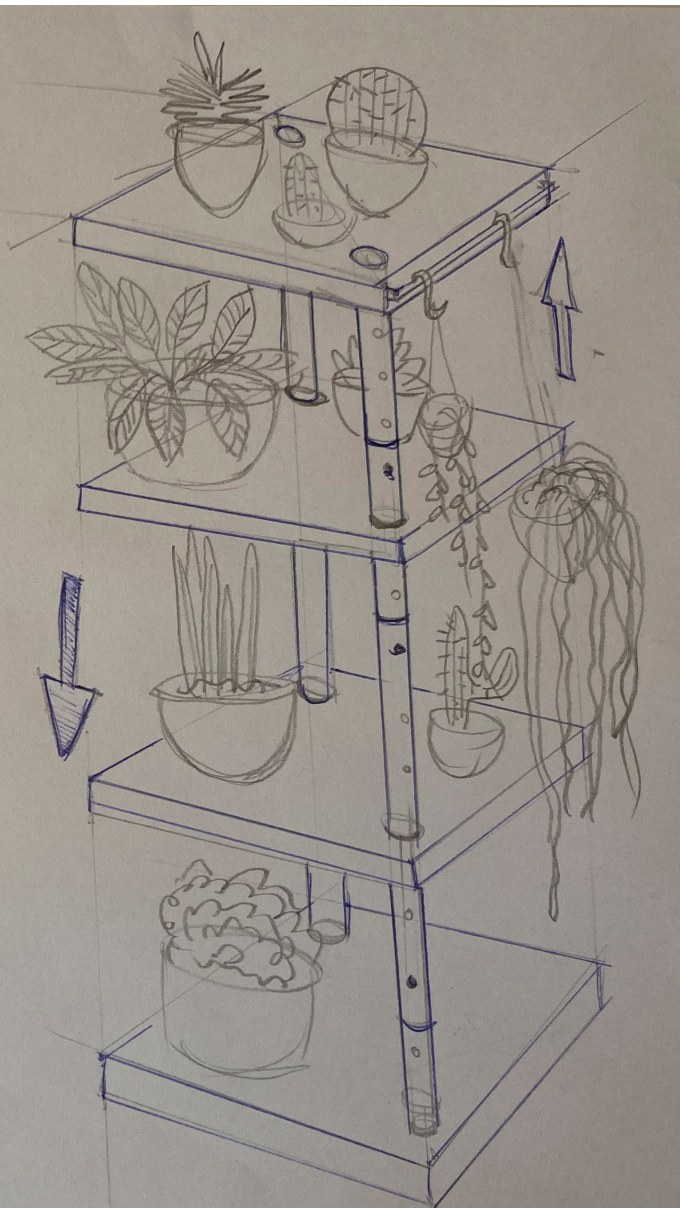
Firstly I tried to brainstorm on all the problems you can encounter when have a lot of plants. These problems go from lacking space to the amount of water you give them to plant diseases. I chose to handle the space problem, so I would create something that organizes the plants in your space.

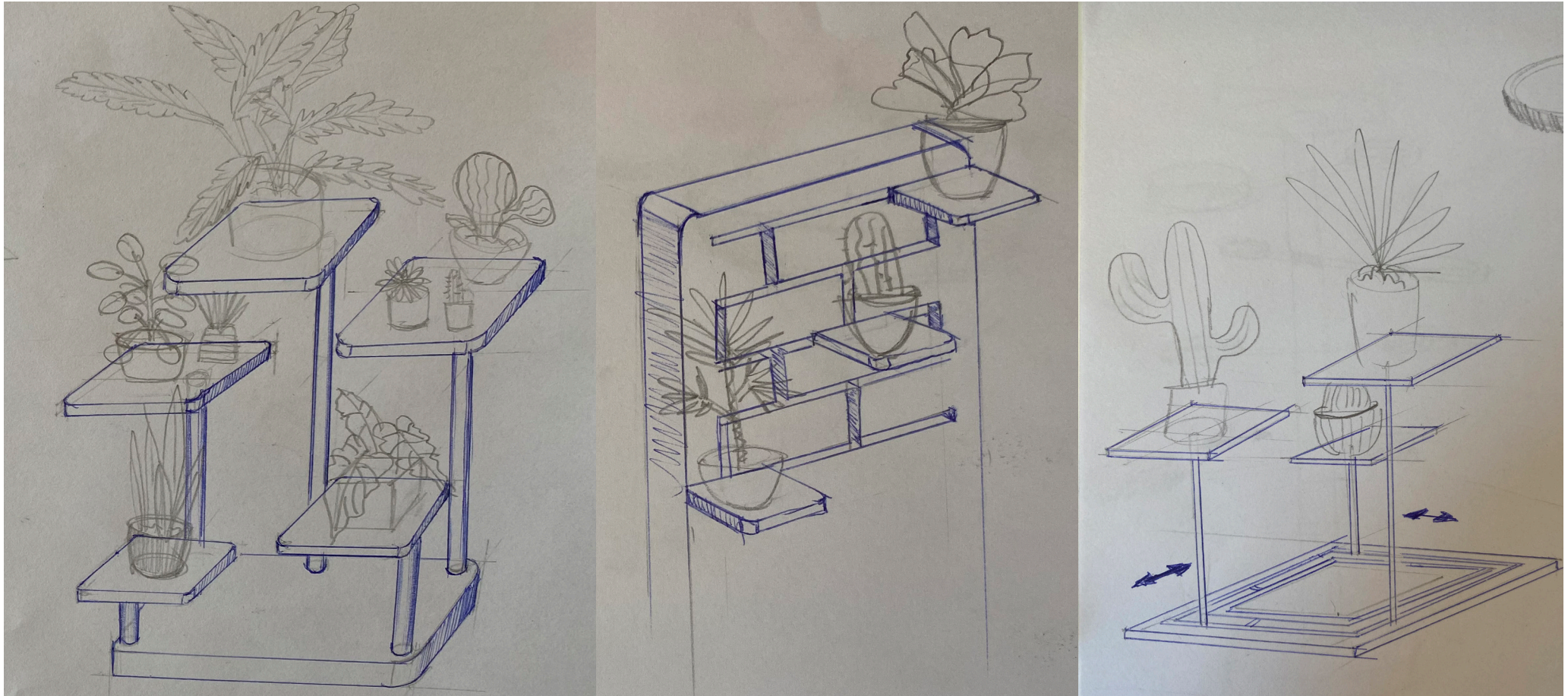


MOODBOARD STYLE



IDEATION





Principle idea for all of designs is that you can adjust the place of the plants. Up and down, left and right. This makes it possible to give a taller plant more space when needed. Also you create an interaction with the product by moving its shelves.

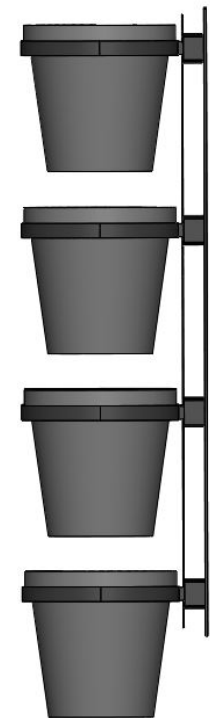
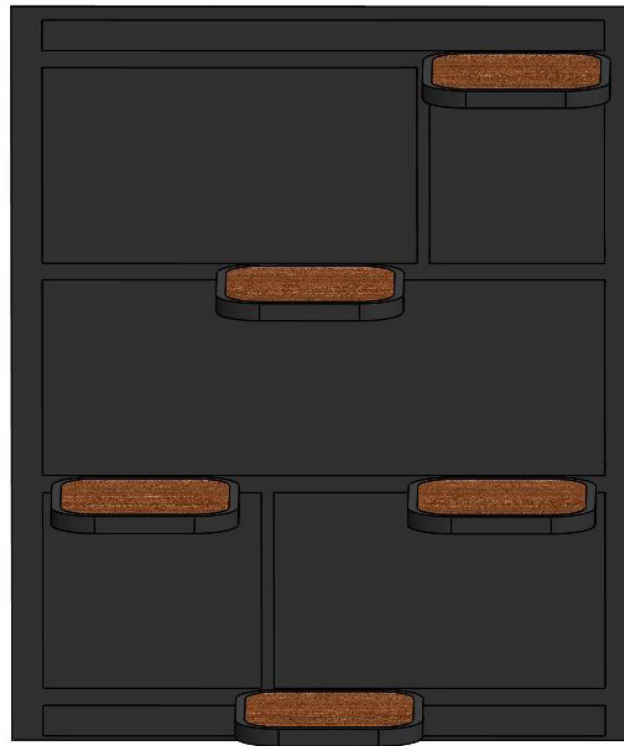
After discussing these different models I had to look for something that would make the piece especially for plants.

FIRST MODEL

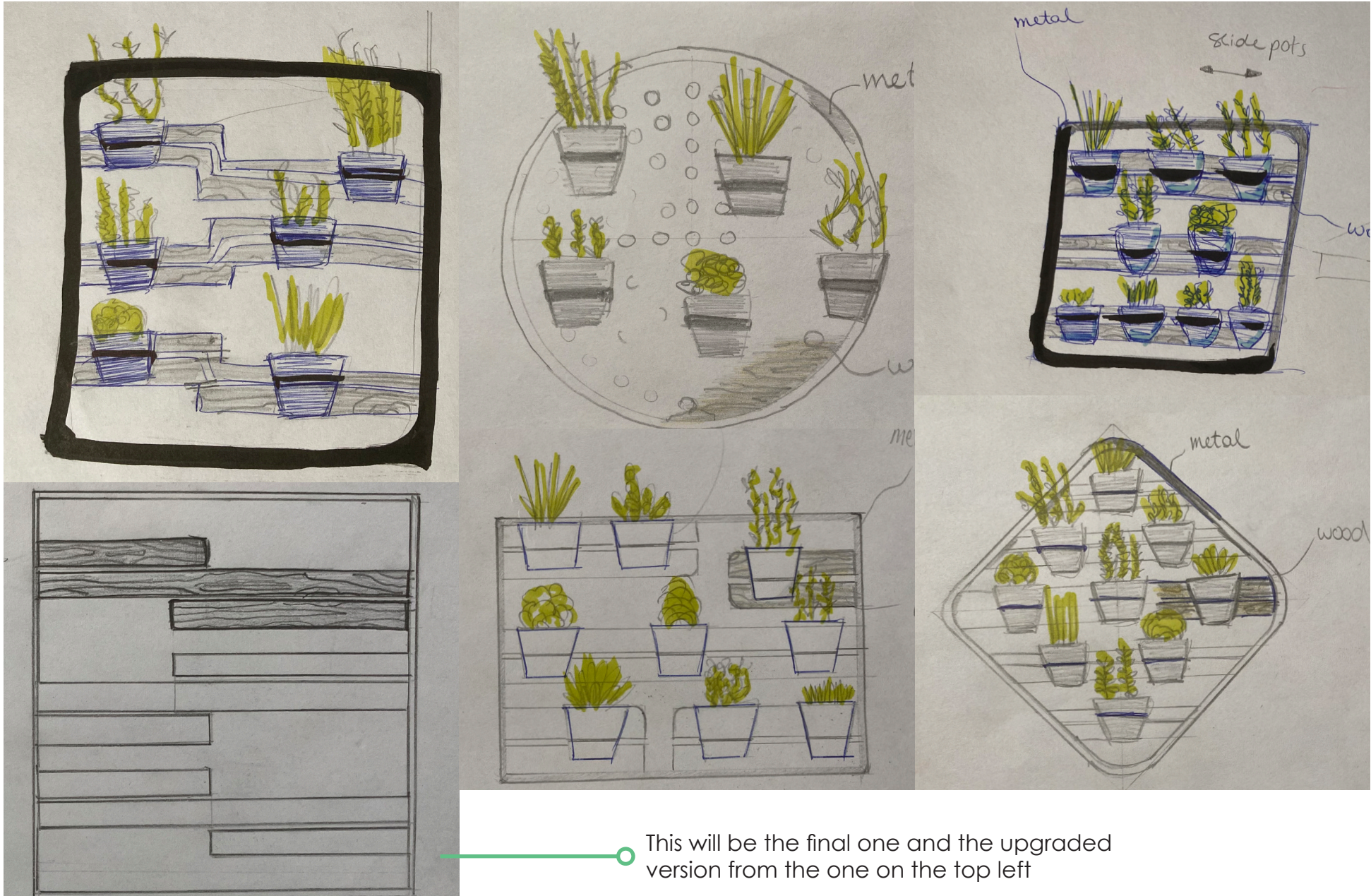
I picked out my favorite one and the one that had the most potential to make in Solidworks. The model on the top is a large piece that you would have to hang on the wall. The wooden shelves can be moved up and down and you can slide them from left to right. The model on the bottom is derived from the top one. This one doesn't have shelves, but holders for pots. This way it is clear that it is made for plants. This one would be for herbs. Since most herbs come kind of the same size pots it works to have one size.

After discussing these during the consult the conclusion was made that I will go on with the smaller one for herbs. It is clearer that it is for plant. I did have to relook at my moodboard since my current model has a lot of material and looks heavy. I had to sketch some more while using my moodboard.

The concept of sliding the pots from left to right or adding them where you like will remain.



IDEATION FINAL MODEL



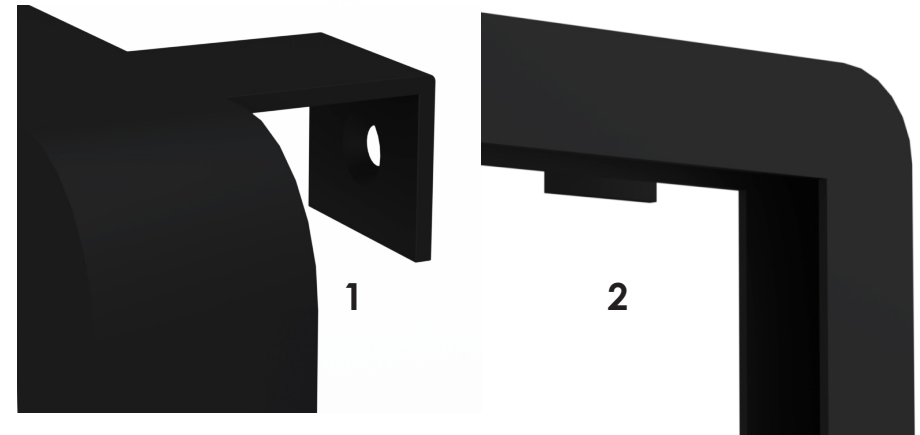
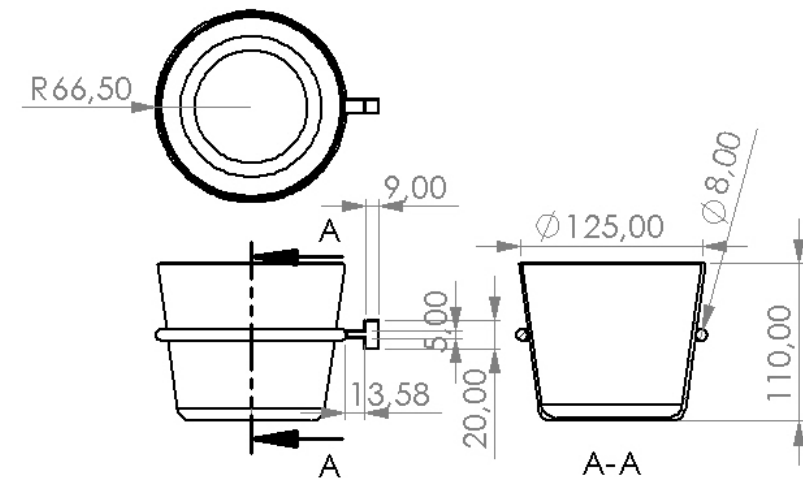
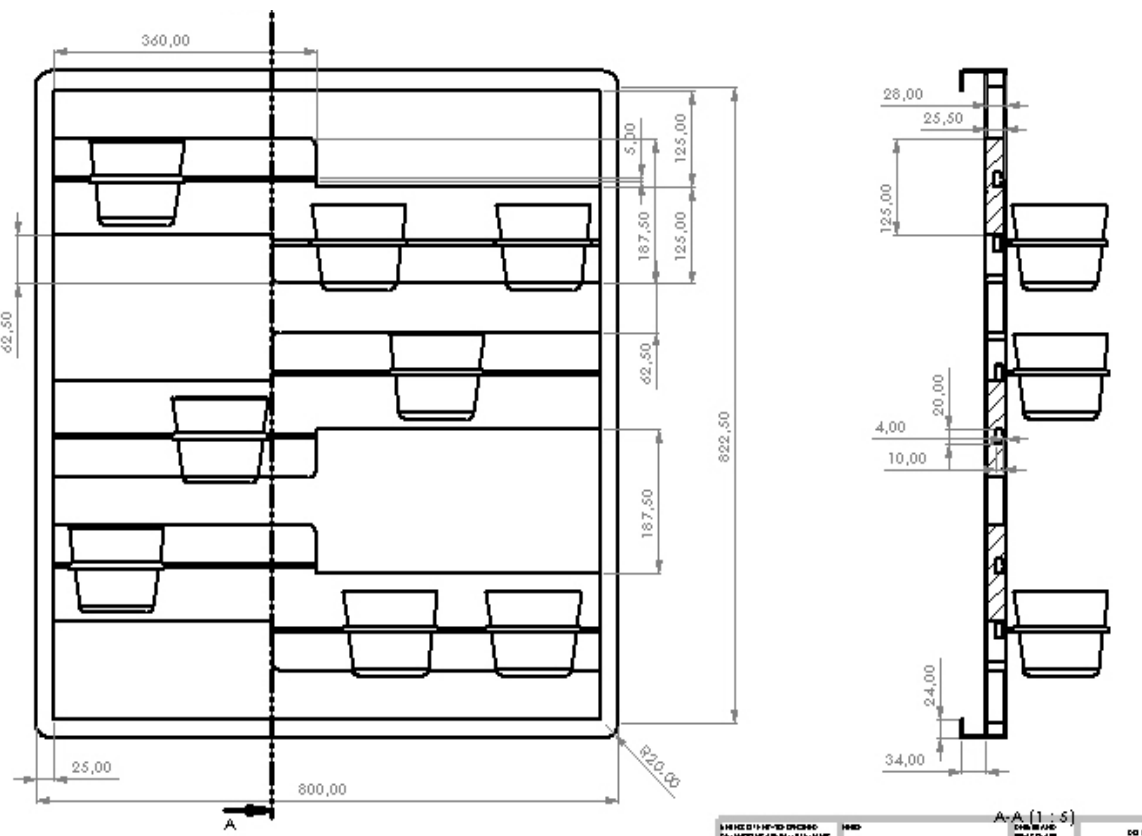
FINAL MODEL







Ideally the the herb shelf can be produced in different colors of wood to fit your interior. The pots shouldn't be a problem at all to produce in different colors or materials as aluminum or polypropylene. The pots don't even have to be produced specially for the shelf, because there are enough wholesales that sell pots. It is just a question of picking the right one with good diamensions.



The frame is made out of steel. It is produced by bending profiles(2). The profiles would have a thickness of 2.5mm. By using this you will have less weight and it's cheaper to make. The pieces like the rectangles(3) where the wood gets attached will be welded onto after, aswell as the 4 pieces(1) that are there to attach the shelf to tha wall.

The wood gets cut out in the desired shape and the incision(4) will be done by milling. In these incisions the plantholders will be inserted, which makes sliding possible. The wooden pieces will screwed onto the frame(3).

The plantholders are also made out of steel and will be a casting piece.

