



The Kale Master 2000

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Client Meeting

Clients wants and needs:

- Redesigned lighting system
- Portability
- Larger Reservoir
- Water Spout
- Branding



Priorities

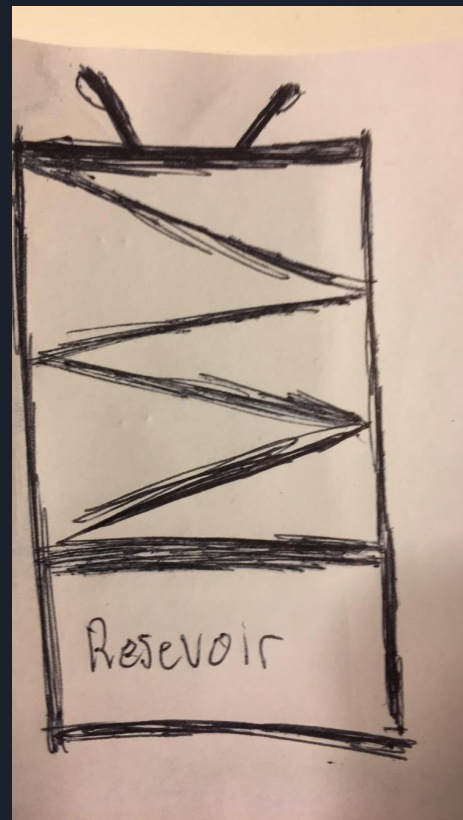
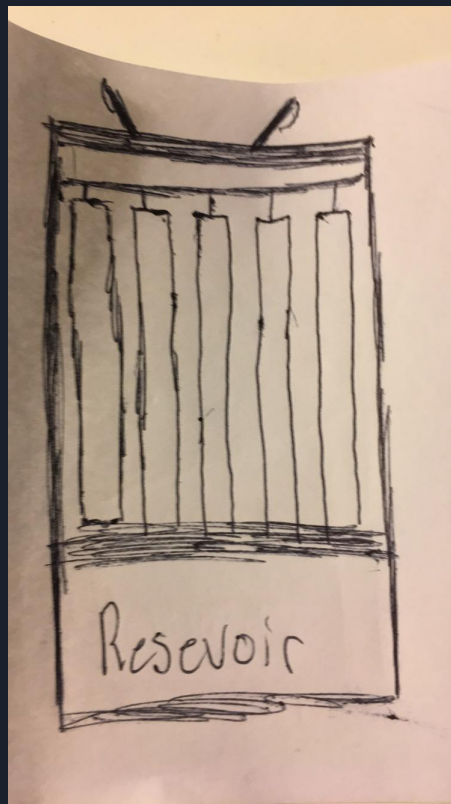
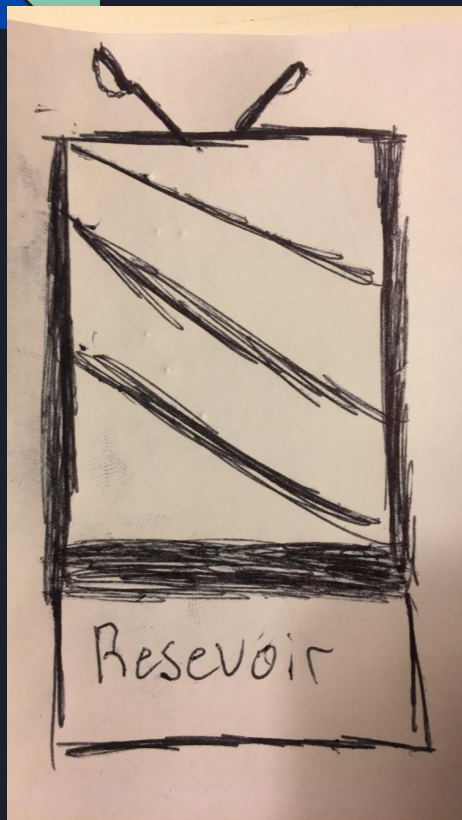
- Ease of use
- Ensuring plants get sufficient water and light
- Tracking water level in the reservoir
- Access to plants
- Filtration
- Easily refillable reservoir
- Easy to move



Problem Statement:

The system must be able to effortlessly check the water level, and must be capable of sustaining the plants for multiple days. The structure must be able to be placed in a classroom, have bright and affordable lights.

Initial Designs





Final Design

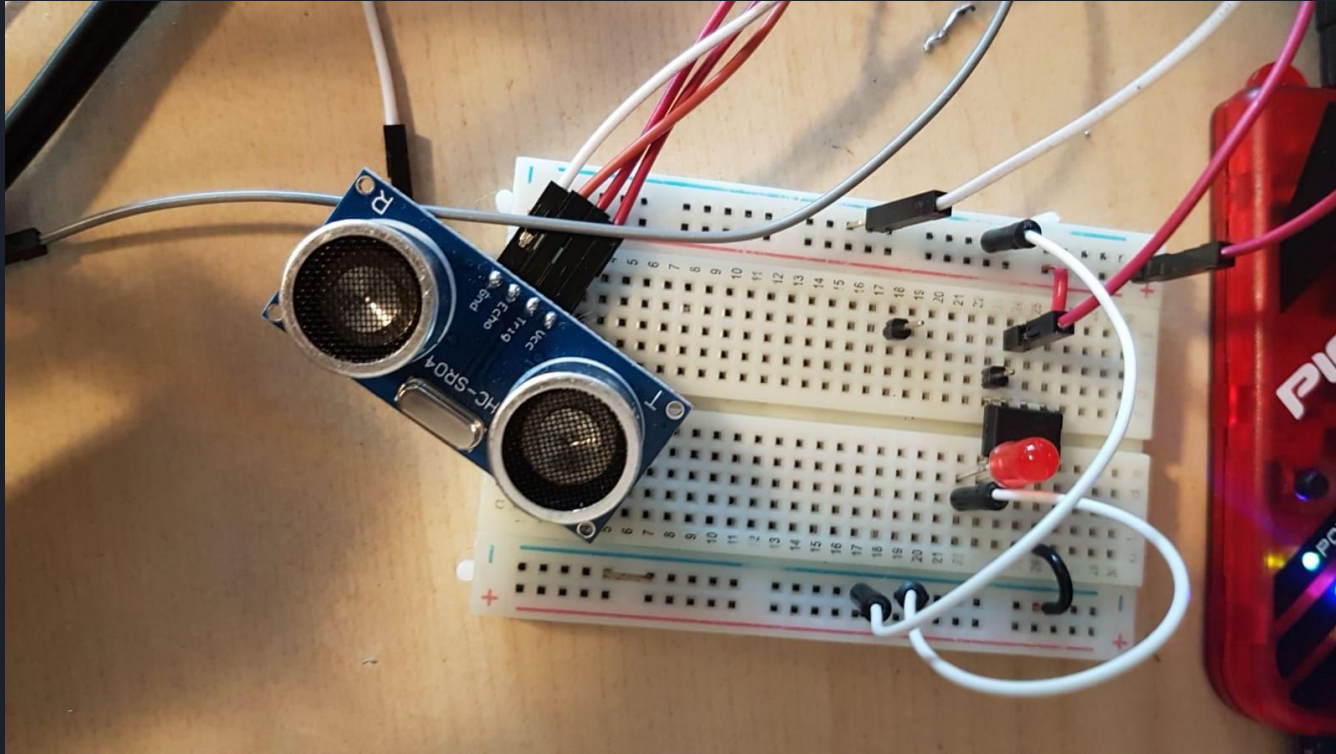




Problems We Encountered

- Tracking Water level
- More consistent drip system
- Access to plants
- Filtration
- Adequate Lighting
- Portability
- Lightweight

Tracking Water Level in Reservoir



Adequate Lighting





Access to Plants





Lessons Learned

- Start design earlier
- Produce budget ahead of time
- Have backup plans
- Create more designs
- Research , research, and more research



Conclusion

- This project is good to let people know how to design something from top to bottom
- Make less deliverables for the future and more time to do each project deliverable
- Give students a bigger budget. A lot of students had a price less than \$150.
- Have the client come in for longer periods of time to view each prototype.
- Overall, it was a good project to learn from.