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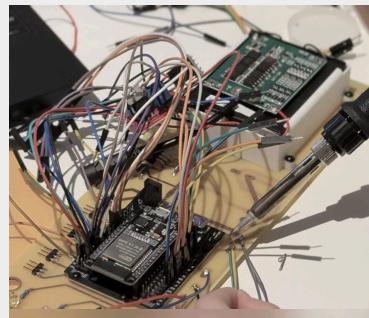
Automatic Indoor Planter

LeafSpace

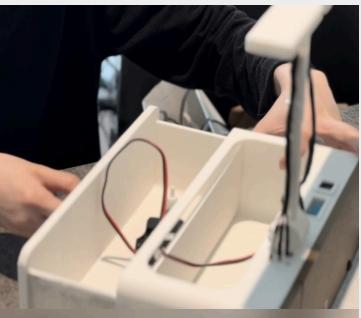
LeafSpace is a modular, adaptive plant care system that allows users to configure and expand growing units with ease, while intelligently adjusting light and irrigation based on plant type and environmental conditions—eliminating guesswork and making plant care intuitive, reliable, and aesthetically integrated.



Process



Circuit Board Soldering



Assembly



3D Printing



Module Test & Iteration

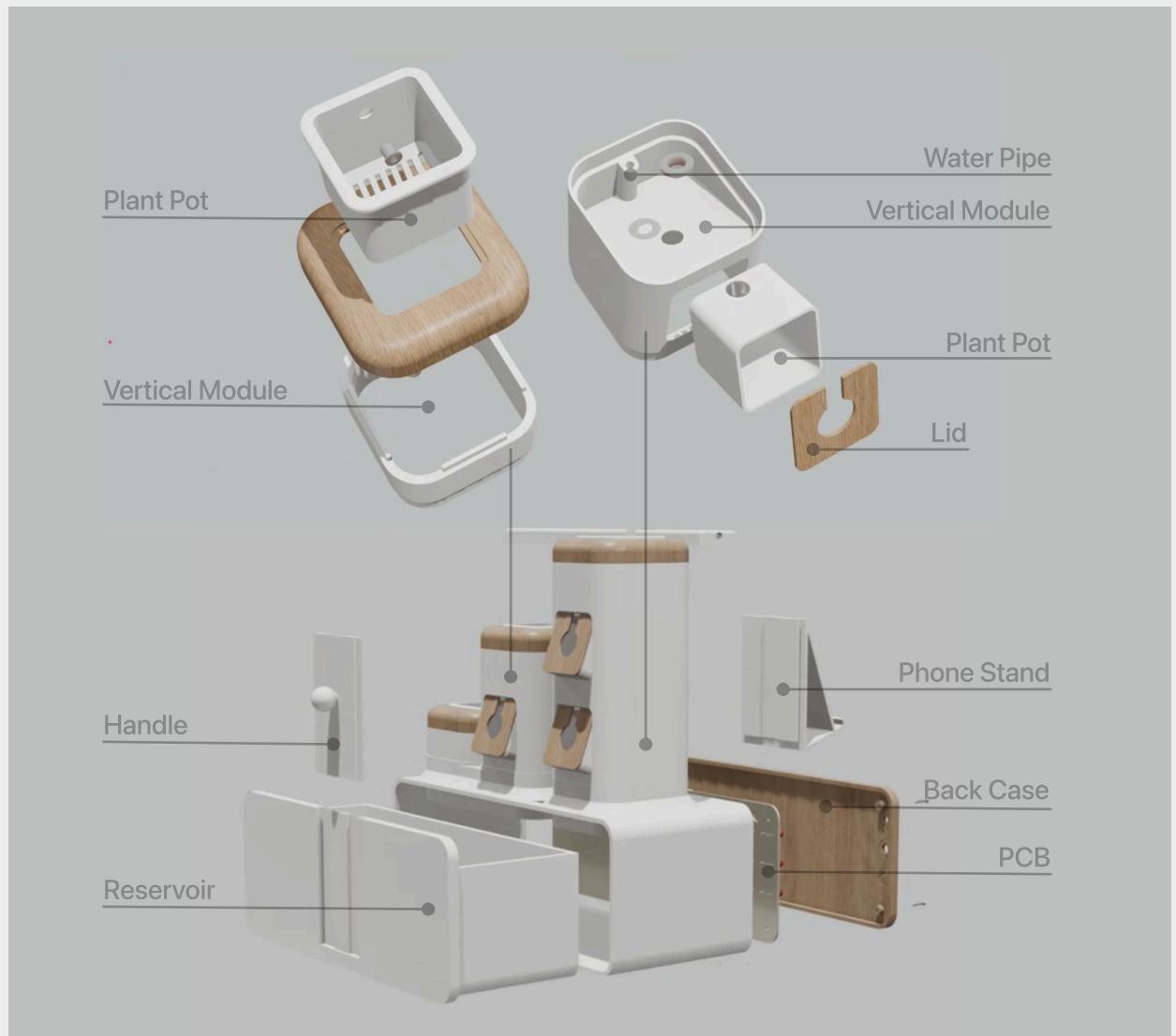


Pump & Pipe tolerance test



Plant Test

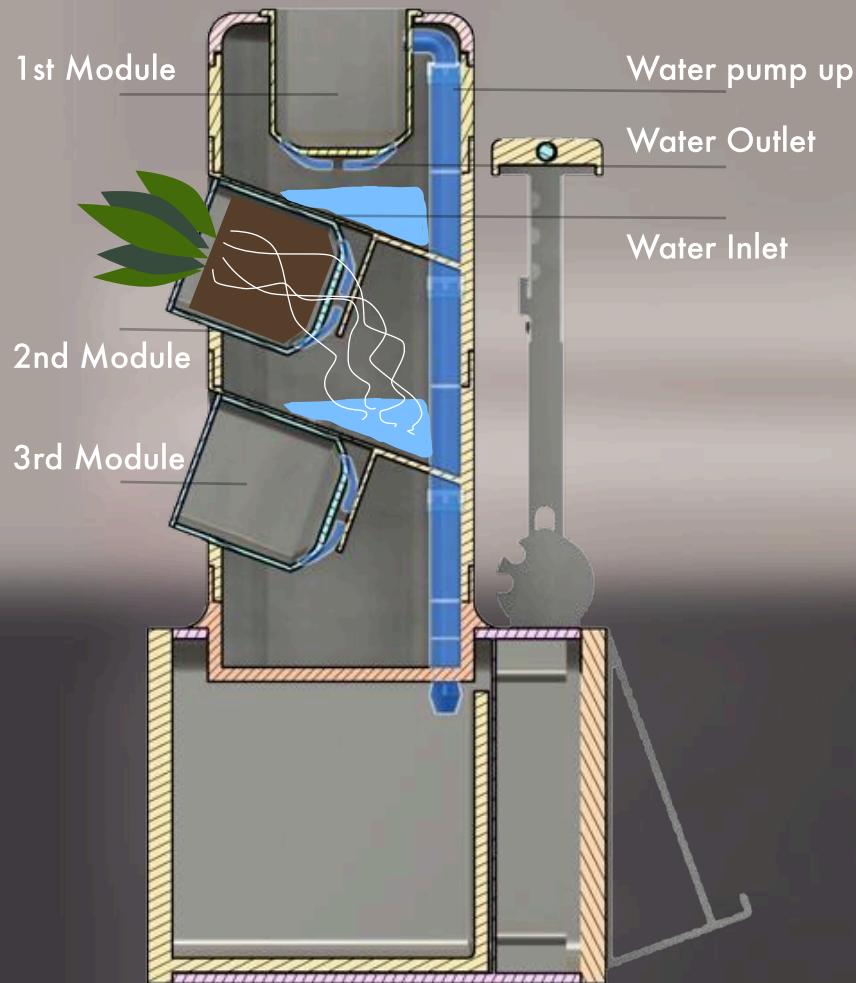
Structure



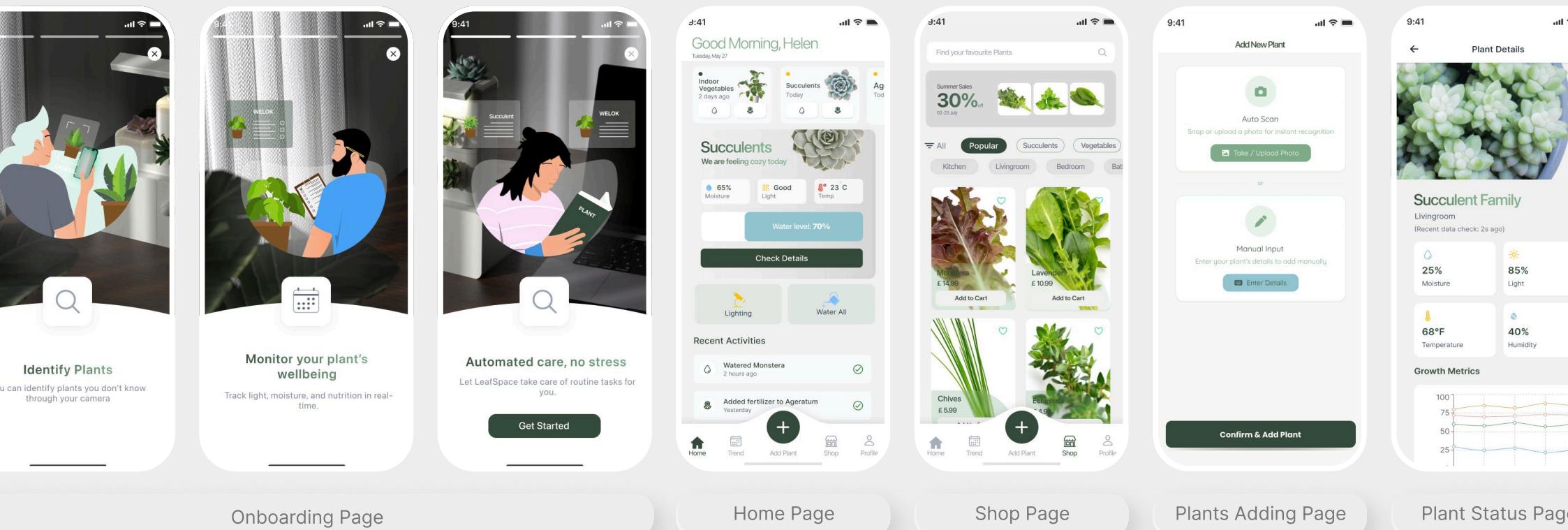
Starting from user insights, I translated needs into modular design principles, using iterative prototyping and technical validation to refine both form and interaction. Each design decision—from CAD to electronics—was grounded in functionality, scalability, and user experience.

How it Works?

The pump transports water from the bottom to the top through the blue pipe, and it flows down to the lower layer through the holes at the bottom of the pot. Finally, it returns to the water tank through the bottom filter screen.



User Flow & Interface



Onboarding &
Sign Up

Connects to
the device via
Wi-Fi

Shop for Plants with
recommendation based on the
environmental condition.

Add plants by inputs plant type or
selects from a list, The app generates a
care profile based on plant needs.

Monitor Plant Status such
as humidity, temperature,
and light intensity.

The user can schedule watering
reminders and adjust automation
thresholds to suit their lifestyle.