

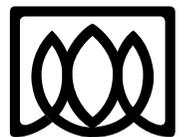


furnature

by Vincent Arena , Jonathan Magliulo & Paz Hernando

PDI Studio 5, RPI  
Decemeber 8th, 2016

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# *problem & motivation*

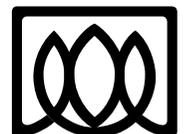
promoting sustainable and healthy habits.

Gardening has shown to improve our mood, save us money, and strengthen our connection with food. However, a large chunk of potential gardeners live in apartments and are confined by a lack of natural sunlight, time to invest in learning how to garden, as well as both indoor & outdoor space to fit any plants.

With the little space that people do have, many have invested money and time into setting up indoor gardens, only to have their plants die after a busy week. What this means is that for many of those who have a desire to grow fresh veggies and herbs without investing large chunks of their time and space, there are limited options available to them.



*We'd like to introduce furniture.*

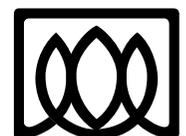


## *our solution*

combining agriculture, technology and design.

## *A semi-automated urban garden integrated into furniture;*

**Furnature** promotes the fresh food movement by easily providing apartment access to fresh veggies in a compact, beautiful, and space-saving piece.

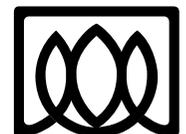


*our vision*  
to create social impact.



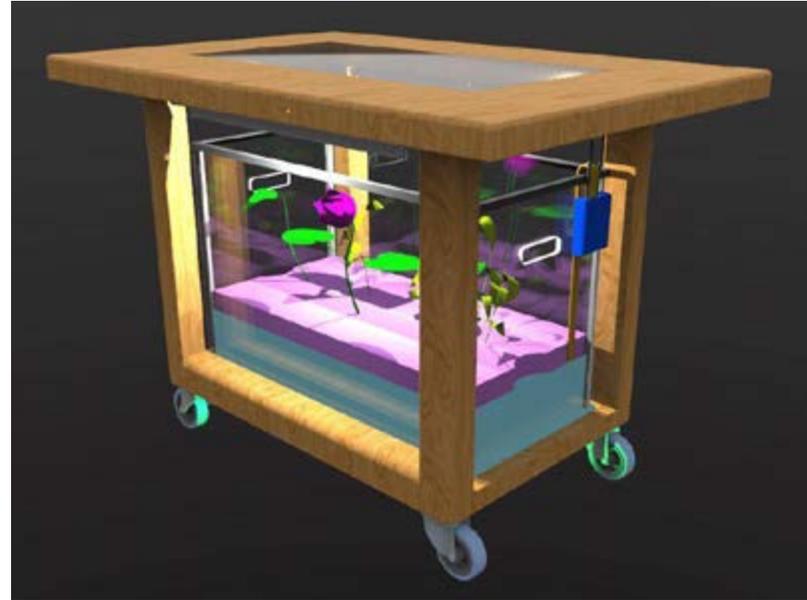
Originally inspired by a lecture on the “future of corporate food order” **Furnature** was conceived based on the vision of increasing local production of food and creating a social movement for alternative food sovereignty. While **Furnature** operates on a smaller scale in terms of volume of food produced, it is a first step in our vision:

*creating agency of what we eat and how its grown.*



## how it works

automated aeroponics, intuitive app-based interaction.



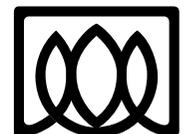
Plants float on water to ensure consistent hydration. They are inserted into pots which allow for proper root immersion.

Hydroponic aeration stones provide oxygen to roots

T-5 Grow bulbs: Controlled autonomously via arduino

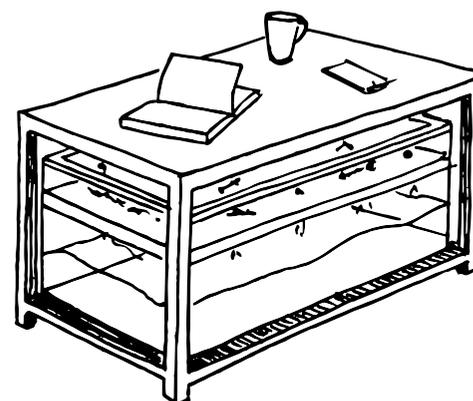
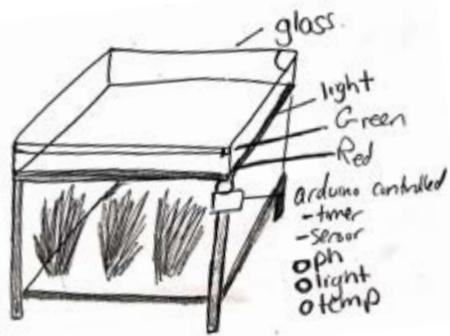
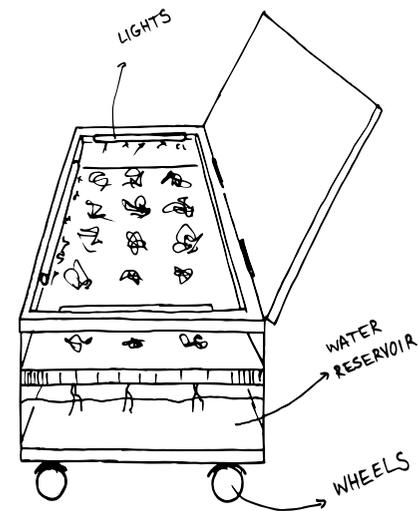
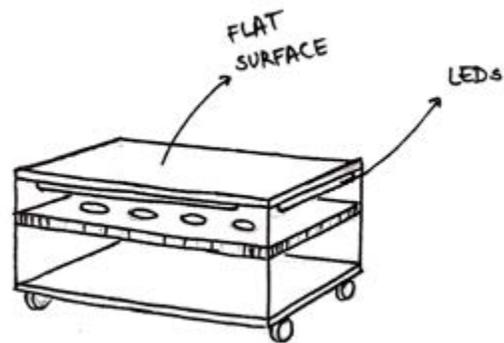
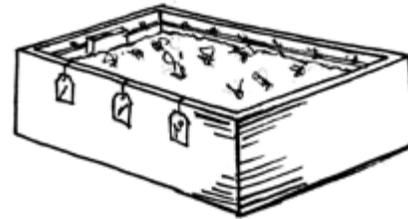
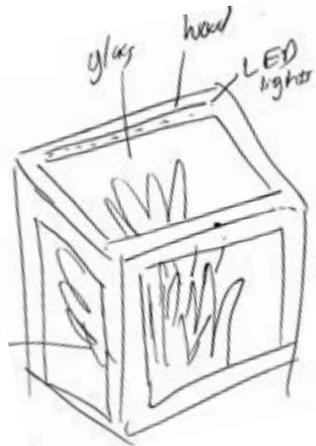
Arduino sensors monitor temperature, humidity, PH value, water level and light

Worksurface takes up the same amount of space as a normal coffee table



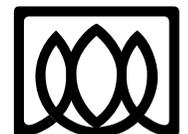
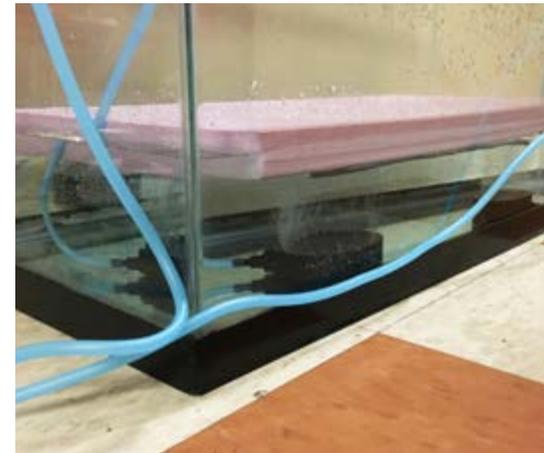
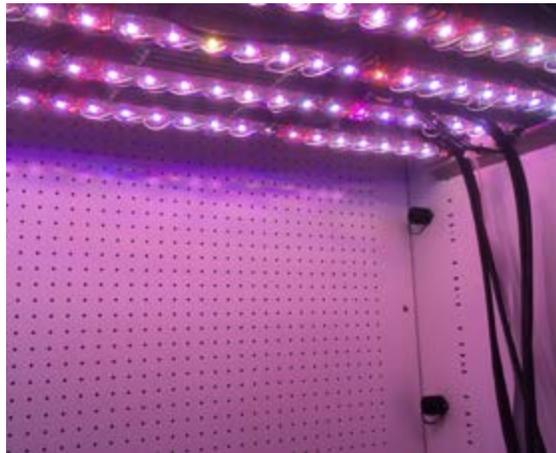
# development

sketching and conceptualizing.

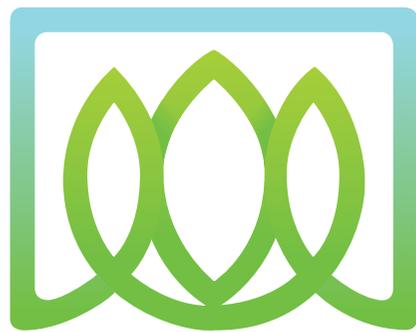
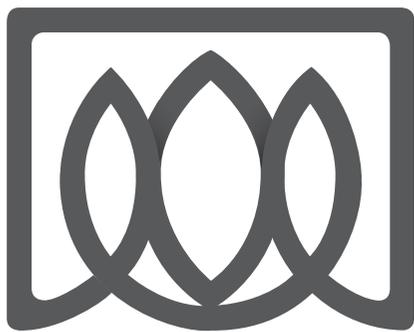
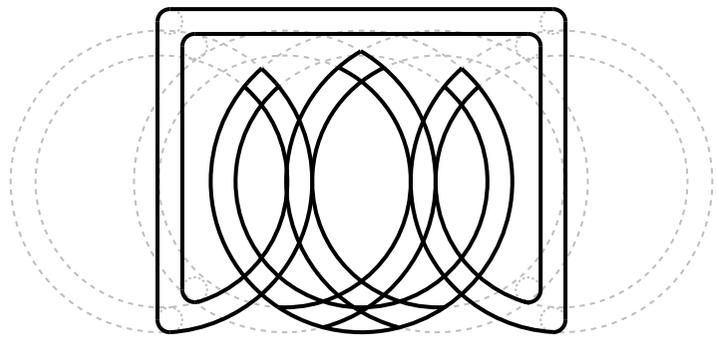
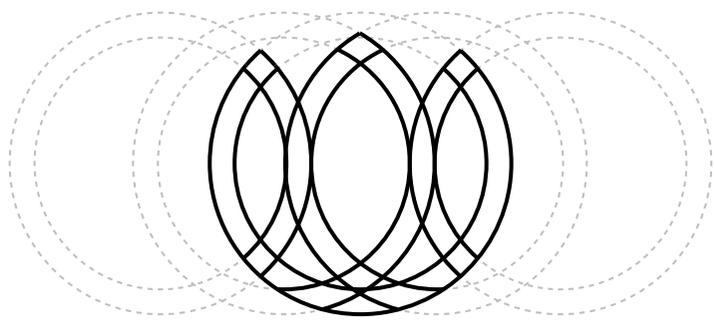


# development

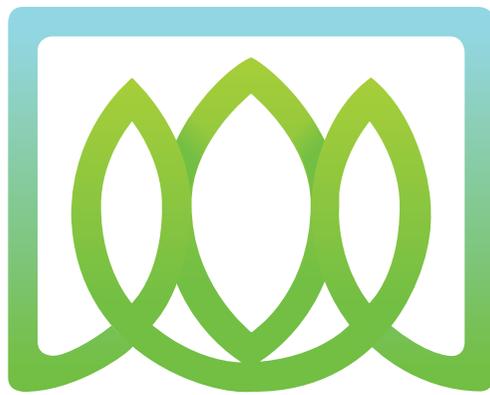
researching, building, coding.



*visual identity*  
creating the brand.

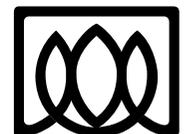
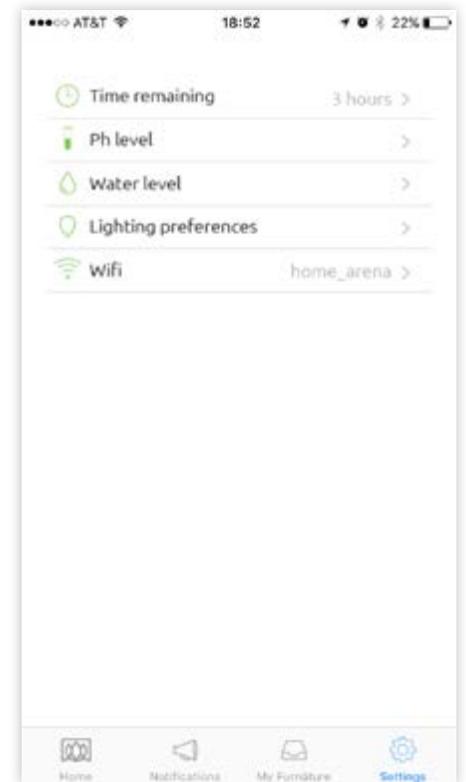
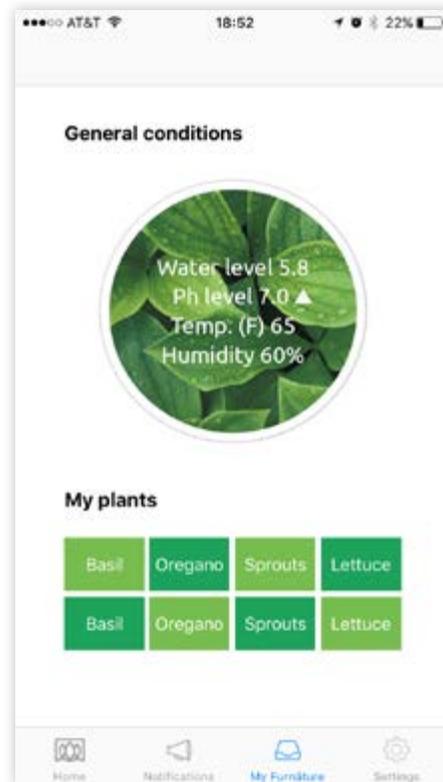
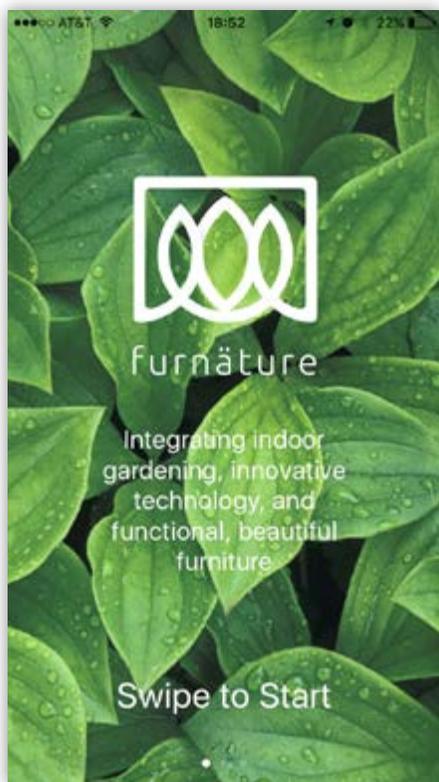


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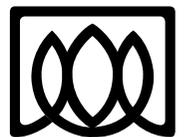


furnature

*the app*  
improving the interactive experience.

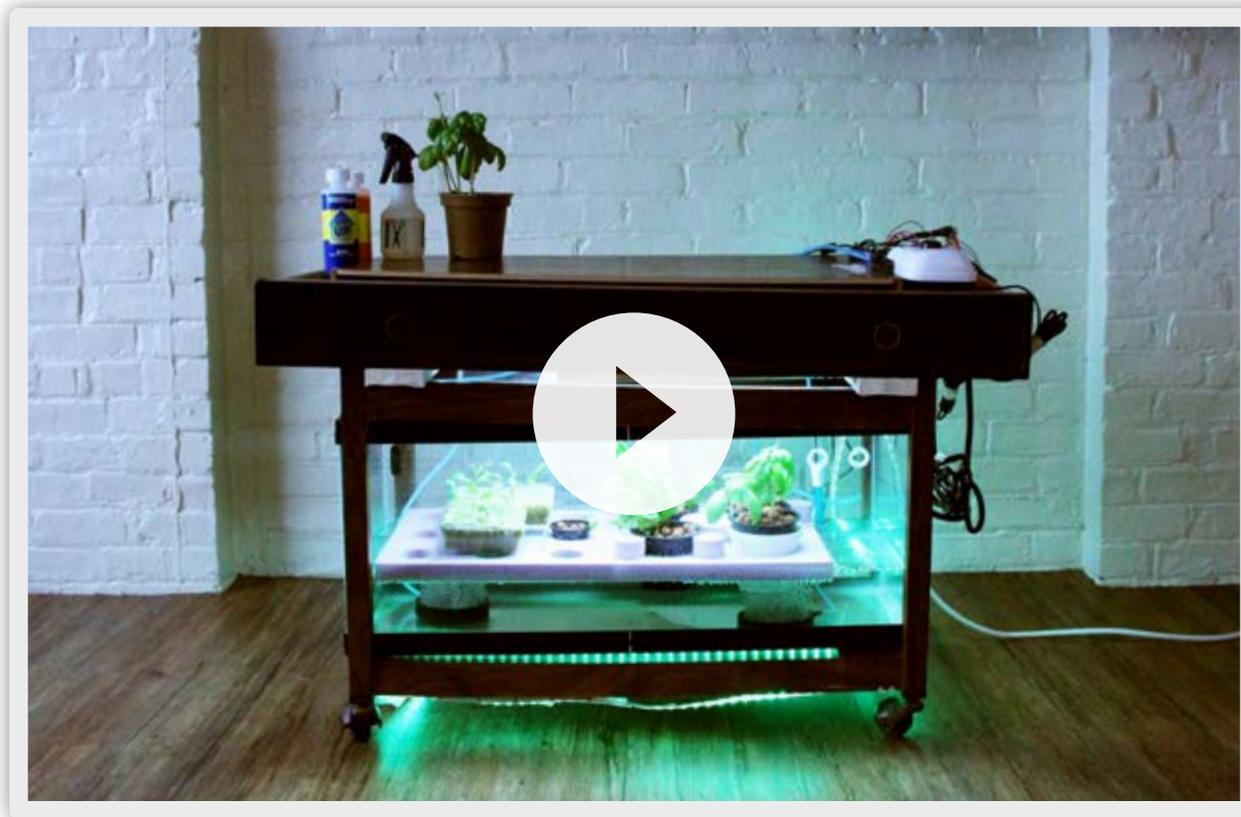


*feedback*  
keep growing.

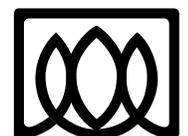


# our story

the evolution of a box that grows food.



Watch now



*thank you.*



furnature