



SHELTER HOUSE FOR AQUAPONICS SYSTEM

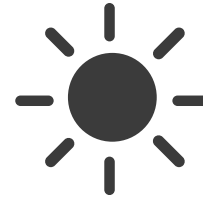
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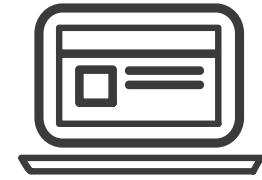
Marketing



Project
Managment



Sustainability
and ethics

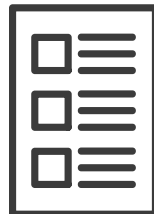


Arquitecture

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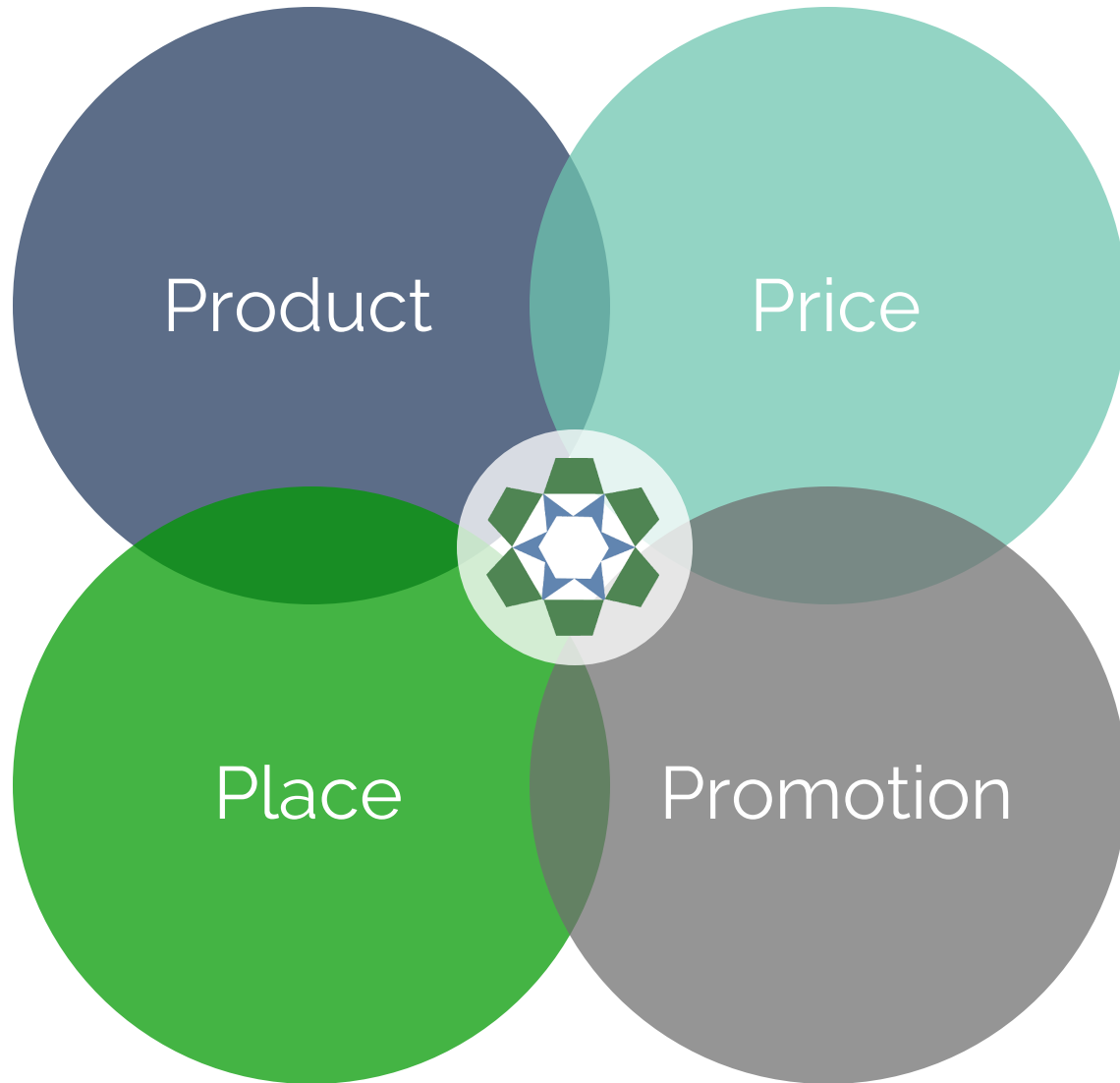
INTRODUCTION

Build a house for an aquaponic system

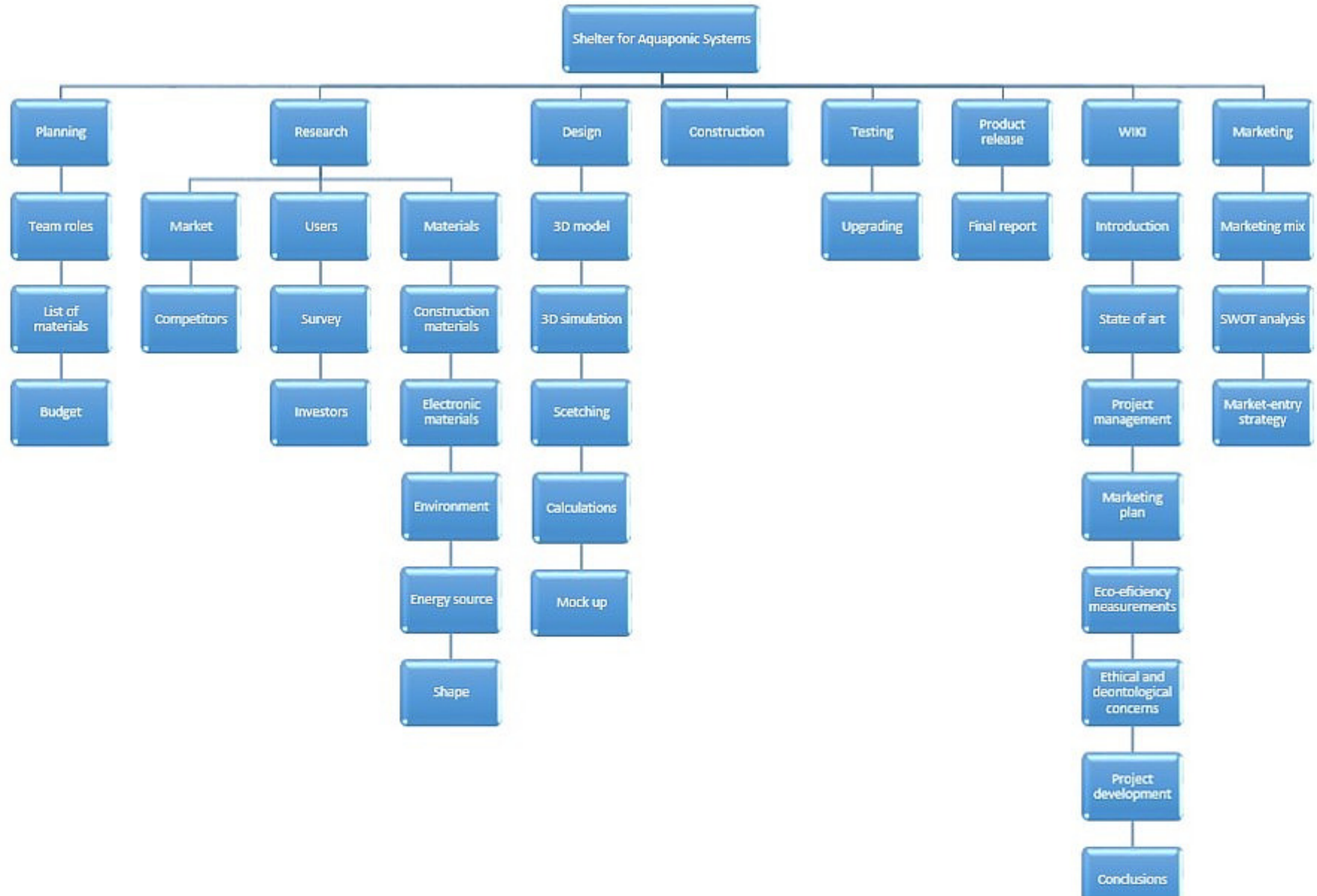
Greenhouse that looks good in city

Protect the aquaponic system from unsuitable weather

MARKETING



PROJECT MANAGMENT



PROJECT MANAGMENT



Arduino Uno	22,90€
DHT22 sensor	9,90€
LCD keypad shield	14,50€
Power supply	7,50€
Wires	4,20€
Polycarbonate	0,00€
Double side tape	23,16€
Allplast glue	8,74€
Expanded PVC	0,00€

TOTAL	90,90€
Budget	150€
Rest	59,1€



During all duration of the project we did not exceed non of deadlines



Expanded PVC instead of wood

Bigger size

*Cost of people were neglected because we are rewarded with grades, not money.

SUSTAINABILITY

Economic

Affordable materials
Money saving

Social

Independency
Availability

Enviromental

Eco-friendly materials
Air&water pollution
Energy effiience
Not using chemicals

ETHICS

Safety and health

Sales and Marketing

Enviromental

ARCHITECTURE

Pinewood
PC



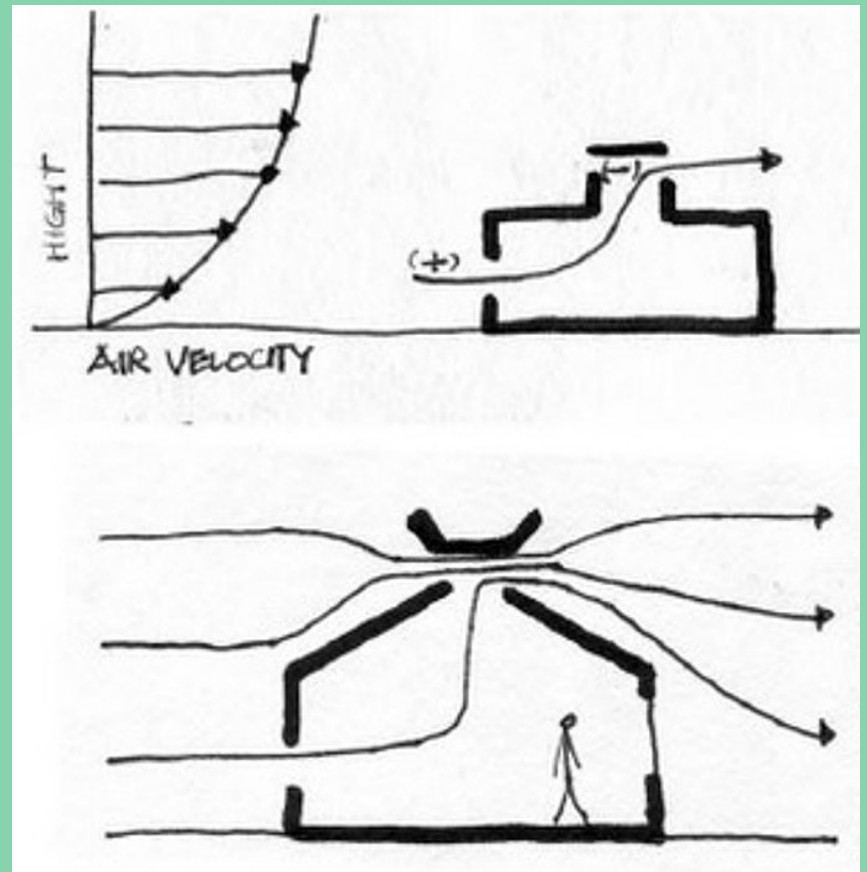
ELECTRONICS

Temperature and humidity

Adruino Uno
LCD keypad shield
DHT22 sensor



Ventilation



TEST AND RESULTS

1



TEMPERATURE
AND HUMIDITY

2



LIGHT

3



WINDOW I

4



WINDOW II

FUTURE DEVELOPMENT

Make it more user-friendly

Customize the size

Ability to disassemble

Customize the structure material

Thermal mass heating system

Sun protection system

Fully-automated windows opening system

CONCLUSIONS



Eco-lifestyle
contribution



Knowledge on
organic food
product



Cooperation
skills



Low-cost
product



Engineer
experience

VIDEO



An aerial, grayscale photograph of a modern architectural complex. The building features multiple interconnected rectangular volumes with flat roofs, some of which appear to be green roofs. Large windows with dark frames are visible on the facades. In the center of the complex is a courtyard containing a prominent geodesic dome structure. The overall design is geometric and minimalist. The text "THANKS FOR YOUR ATTENTION" is overlaid in a light green, sans-serif font, centered over the building. Below it, "ANY QUESTION?" is written in a smaller, white, sans-serif font. White L-shaped brackets are positioned on the left and right sides of the text, framing it.

THANKS FOR YOUR
ATTENTION

ANY QUESTION?