



# The green land



The Green Land project is an exploration, education and inspiring centre that aims to educate and encourage people from different ages to grow their own daily needed food in their own environment. This is achieved through designing an attractively inspiring exploration area, reflecting the environmental essence and aesthetic of nature while serving its purpose as an urban farm. Families can enjoy their time exploring the various vertical farming systems and how each system functions. The project will allow children to be engaged in an attractive workshop zone, where they will be learning how to plant using different gardening techniques. The café in the Green Land project will offer a quiet environment where individuals can eat, relax, and socialize. While the cafe serves healthy food and makes sure that food waste is managed in a way that benefits the environment.



SECTION BB  
SCALE: N/A

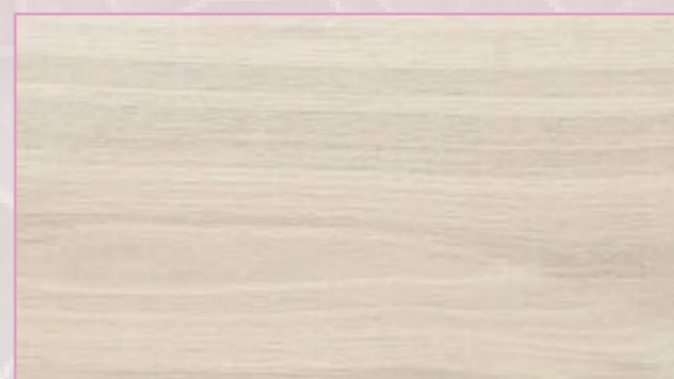
CELL STRUCTURE ACTS AS A  
SUNLIGHT DIFFUSER

## THE DESIGN CONCEPT:

The concept was inspired by the idea of movement found in the complex pattern of leaves' veins as they contribute to the health of trees. This involves distribution and connection when considered as one object. This idea was reflected in the intended project by gathering people to connect them with nature through the design and then by distributing the essence of the project into their environment. To GATHER, DISTRIBUTE, and REPAIR, these chosen words represent people gathering to learn and solve current issues that the whole world is expressing. The ponded paper in the concept model image represents the idea of gathering people under the wood and wire structure. The wood column represents the sustainability and the community in which they are standing and gathering. The metal wire represents the power of people's voices in distributing sustainability ideas throughout the world.

## MATERIAL IN THE PROJECT:

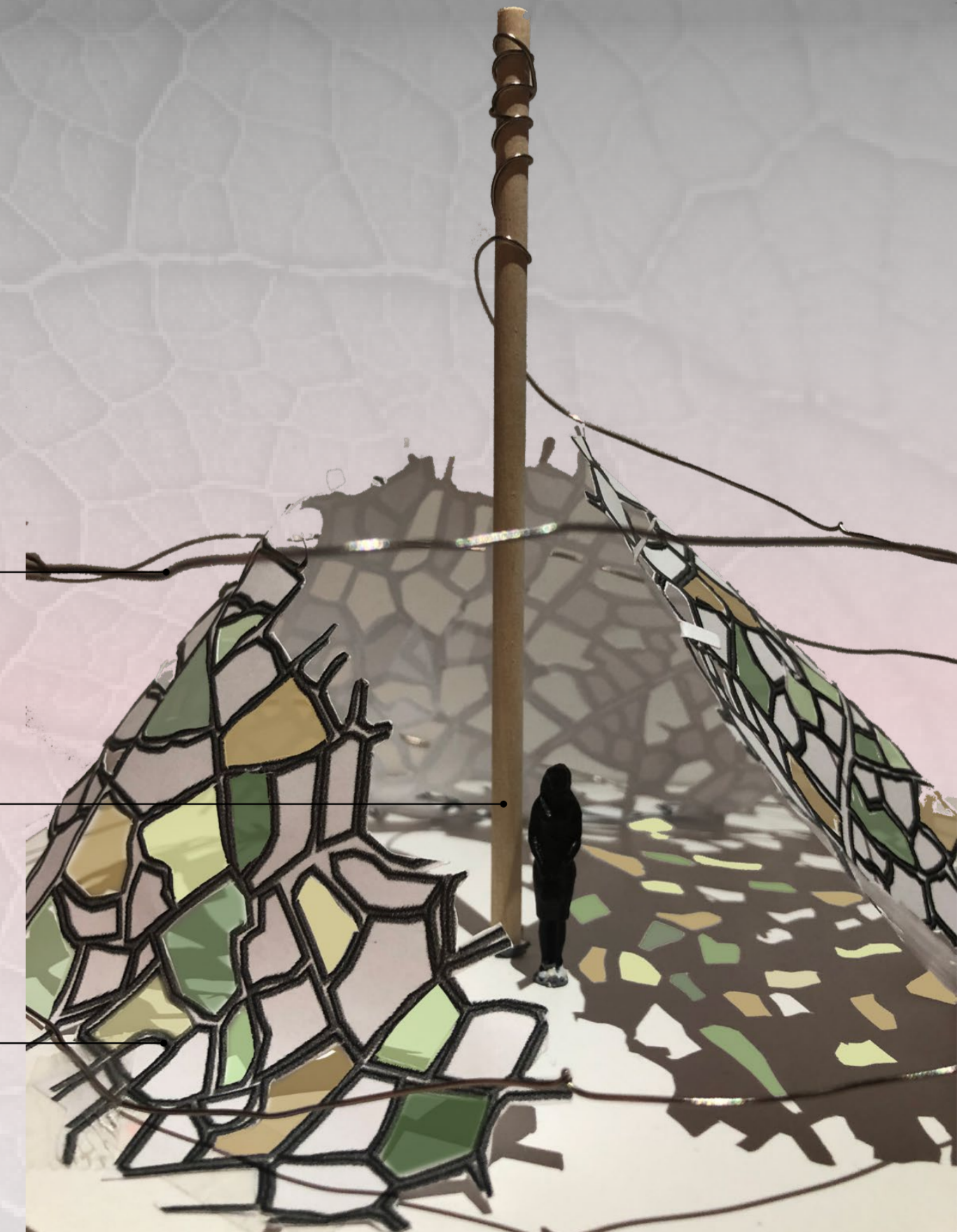
To promote sustainability, locally made materials were considered in the design of the interior space as an effort to reduce CO2 emissions. Timber sourced oak from sustainable forestry was used in the cell structure as it has the flexibility to be formed in complex shapes.



METAL WIRE

WOOD COLUMN

PONDED PAPER



CONCEPT MODEL



HYDROPONIC RACK SHELVES WITH LED LIGHT TO GROW HEALTHY FOOD

LED LIGHT ROOM

EXPLORING

STAFF LOCKERS

CELL STRUCTURE

CAFE

SECTION AA  
SCALE: N/A

SPIRAL HYDROPONIC SYSTEM

AQUAPONIC SYSTEM TO EXPLORE AND PRODUCE HEALTHY FOOD

MUSHROOM HYDROPONIC

WELCOMING SPACE IS ACCESSIBLE FOR DISABLED

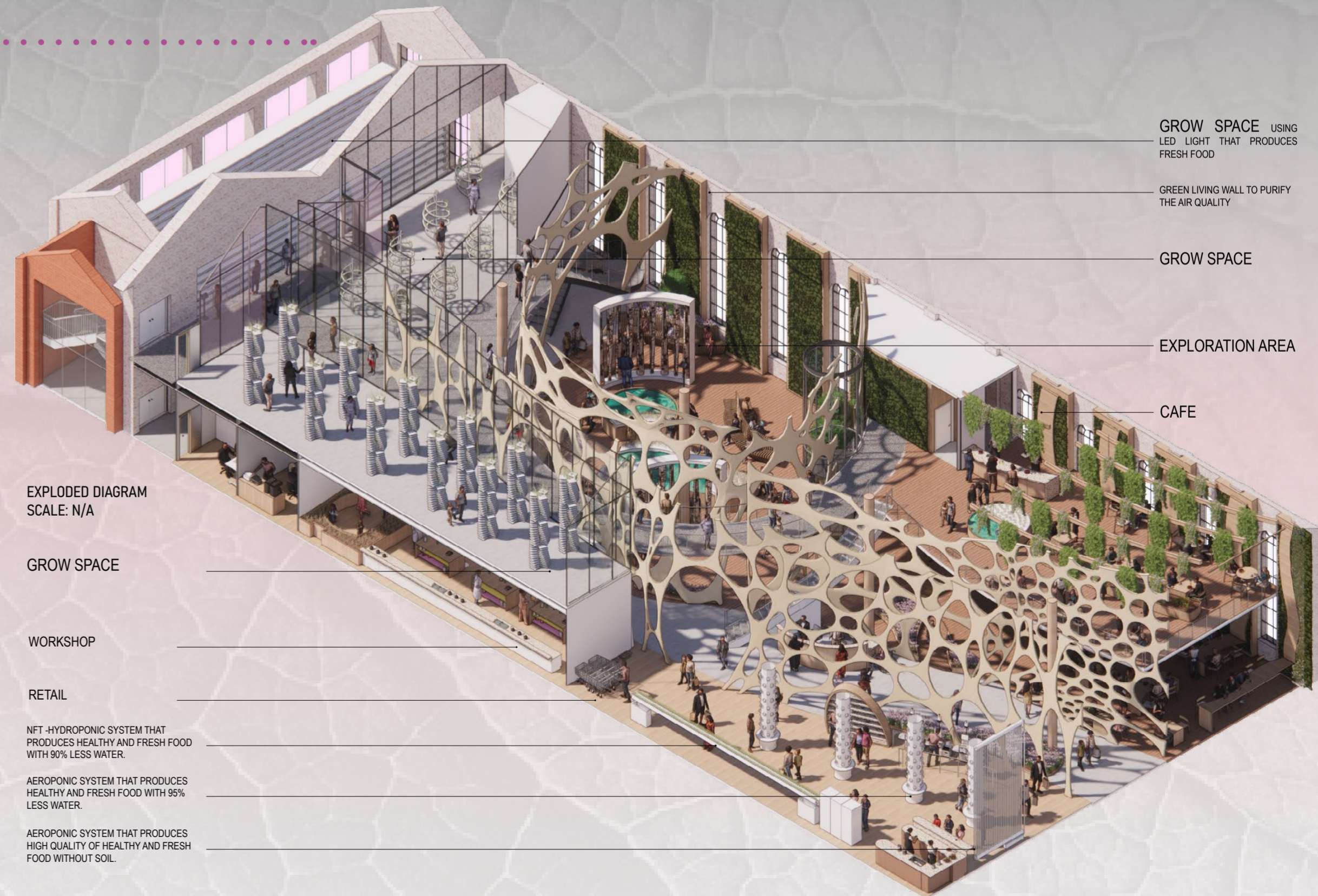
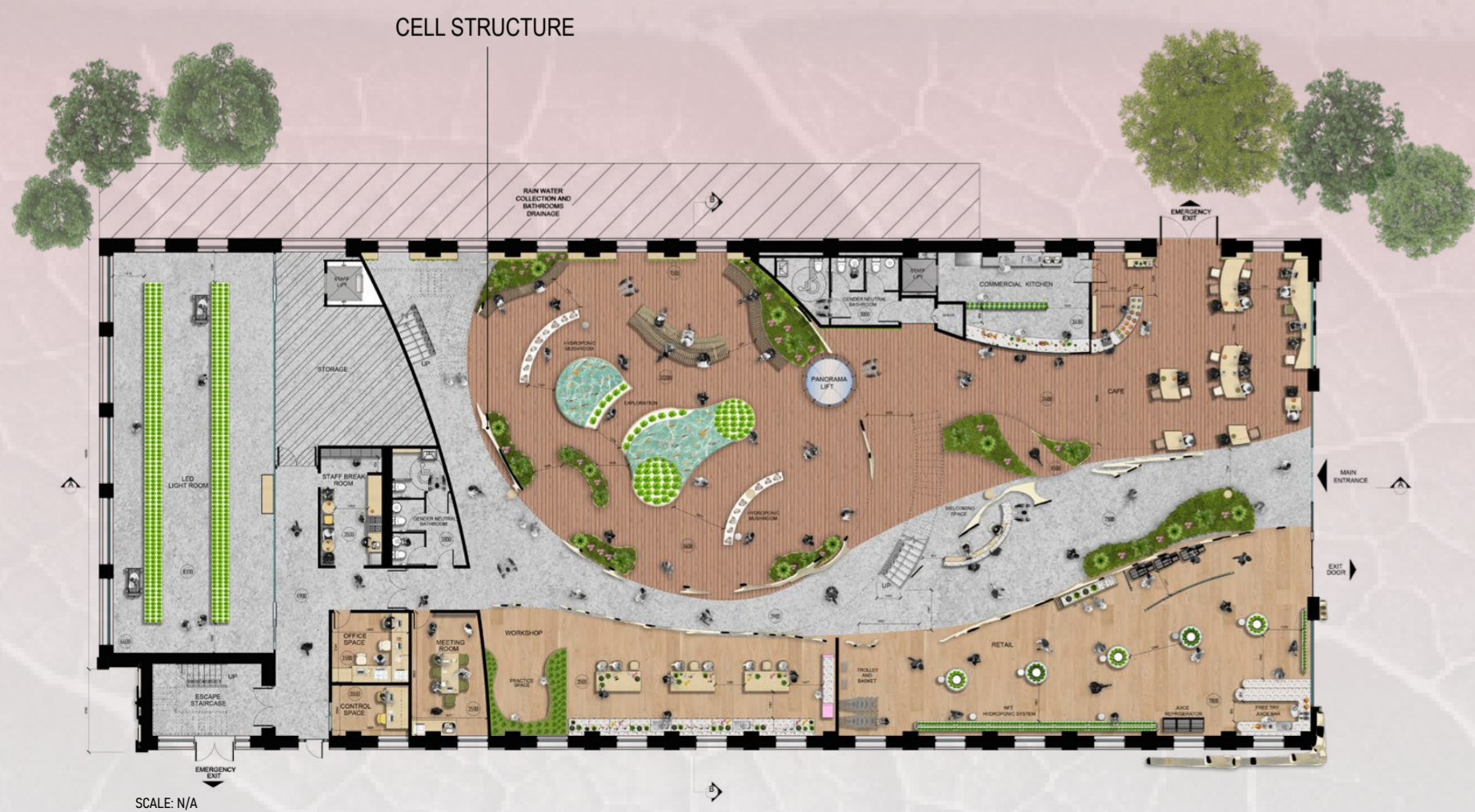
MAIN ENTRANCE

**AXONOMETRIC VIEW:**

This axonometric view shows the different types of urban farm systems that were used in the Green Land building.

**GROUND FLOOR PLAN:**

The cell structure was designed to not only inspire and attract people but also to smoothly guide people to eagerly explore the space.



GROW SPACE USING LED LIGHT THAT PRODUCES FRESH FOOD

GREEN LIVING WALL TO PURIFY THE AIR QUALITY

GROW SPACE

EXPLORATION AREA

CAFE

EXPLODED DIAGRAM  
SCALE: N/A

GROW SPACE

WORKSHOP

RETAIL

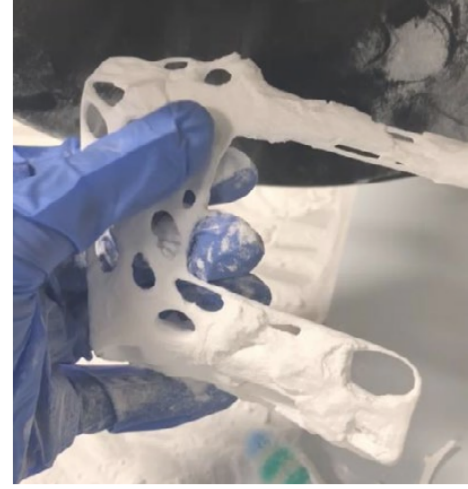
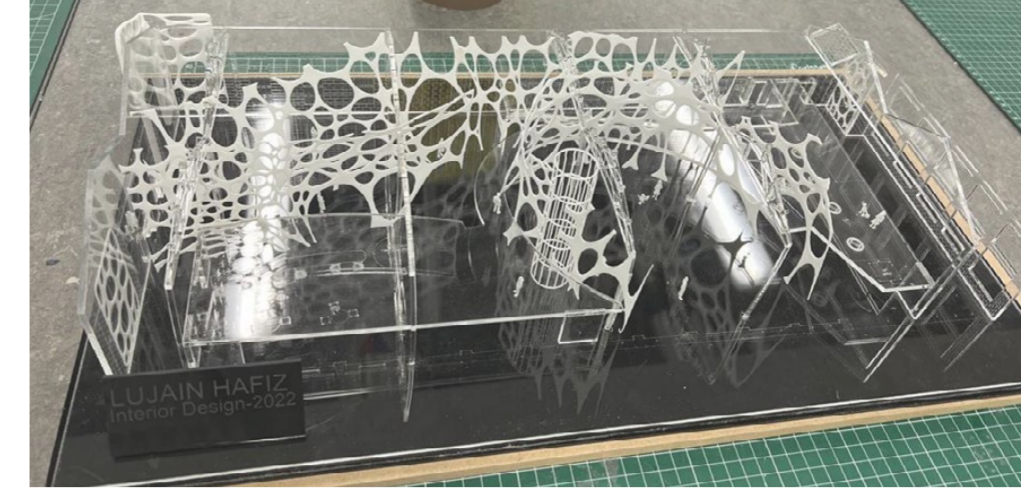
NFT - HYDROPONIC SYSTEM THAT PRODUCES HEALTHY AND FRESH FOOD WITH 90% LESS WATER.

AEROPONIC SYSTEM THAT PRODUCES HEALTHY AND FRESH FOOD WITH 95% LESS WATER.

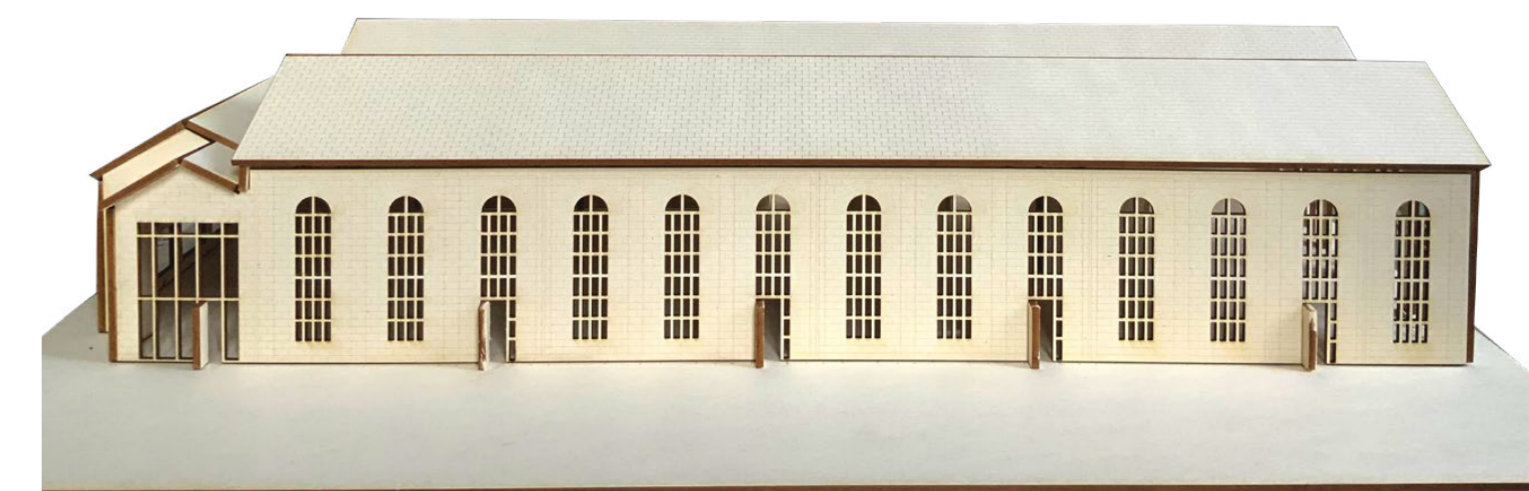
AEROPONIC SYSTEM THAT PRODUCES HIGH QUALITY OF HEALTHY AND FRESH FOOD WITHOUT SOIL.

SCALE: N/A

# MODEL MAKING:



Part of the three-dimensional modelling process was to create multiple initial working models. I explored different types of materials such as pulpboard to test the concept of the cell structure idea and its geometrical proportionality within the space. I found that the clear acrylic is suitable to show the white 3d printed cell structure. I used powder using 3D printing to print the cell structure.



LINK & QR CODE:

<https://youtu.be/tiZcHJrixm0>

