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## The Mudina

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# THE MUDINA

by Kseniya Mamaeva  
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## HONORABLE MENTION

Symbiosis of African traditional design and modern technology



## **DESIGN CONCEPT**

In the creation of my project, I studied the cultures of Africa, clothes and writing of African tribes, and the nature of African household objects. All of this is reflected below.

## **INSPIRATION**

- The tiered headdress became the prototype for the main part of the building.
- African drums with different heights and shapes became the prototype for the vertical elements of the building.
- A circular lake in the crater of a volcano is a prototype for the reservoir around the building.
- The shape of African beads became the prototype for the shape of the base of the vertical elements of the house and the roofs.
- The form of the windows on the walls repeats the shape of patterns on African clothes.
- Geometric painting on traditional African homes became a sample drawing.

## **FIRST FLOOR**

The kitchen is located towards the back of the building for privacy and serving. The kitchen has a patio for external or outdoor cooking, which is a very common African practice. The kitchen accesses the dining area directly for ease of serving food and for functionality. The dining room is combined with a sitting area.

## **SECOND FLOOR**

On the second floor is a sitting room for joint pastime of people. The terrace is decorated with plants and is suitable for outdoor pursuits too.

## **THIRD FLOOR**

The bedroom and dressing room are located on the third floor. In the hottest time of day, the curtains are closed in the room. You can open the curtains in the evening and admire the view from the window.

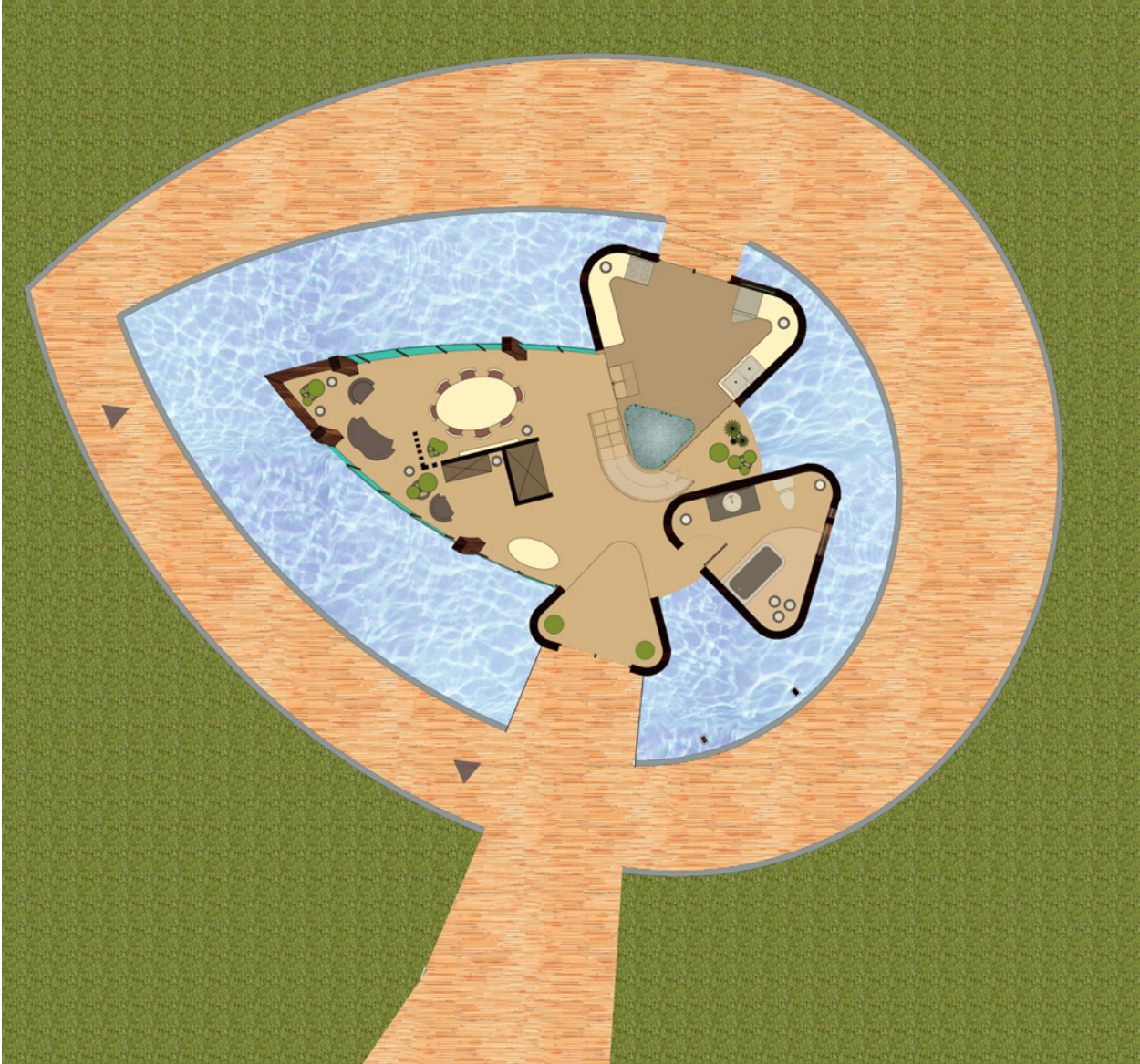
## **MATERIALS AND SUSTAINABILITY**

- Building materials to be used for the entire building:
- Roof – Bamboo trusses, brown shingles with the texture of wood
- Walls – Hollow sandcrete blocks and wood
- Foundation – Filled with concrete blocks

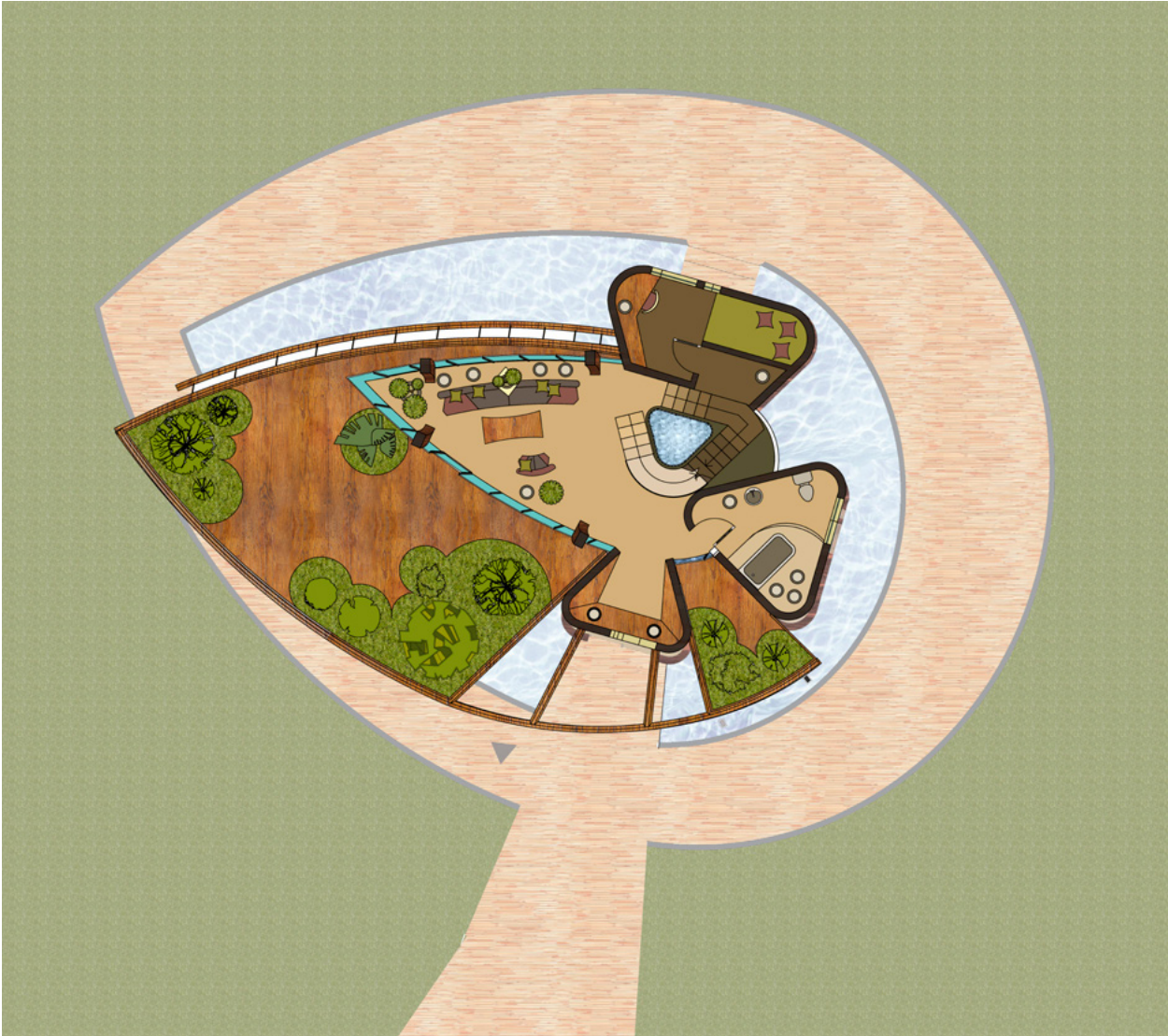
How the design addresses the issue of heat, ventilation, and airflow:

- The coolness of the water and the fresh air will pass through the many windows
- Tents made of cloth on the third floor can create a shadow on the second floor
- Terrace on the second floor creates a shadow and prevents the passage of sunlight on the first floor
- Special arrangements of windows contributes to good airflow

**FIRST FLOOR**



**SECOND FLOOR**



**THIRD FLOOR**

