**FLOATING BAMBOO HOUSES FOR CLIMATE REFUGEES**

**Entities**

**A. Floating Bamboo House:**

**Climate refugees who have been uprooted owing to rising sea levels and harsh weather occurrences will benefit from sustainable and perseverance dwelling alternatives. These homes are made of bamboo, a renewable and rapidly growing material, and are meant to float on water, adjusting to changing water levels.**

**B. Climate Refugee:**

**Individuals or groups of people compelled to leave their homes and livelihoods as a result of the effects of climate change, such as rising sea levels, extreme weather events, and desertification.**

**C. Construction that is environmentally friendly:**

A building method that reduces environmental impact and increases resource efficiency across a structure's full lifecycle, from design and construction to operation and renovation.

**D. Perseverance Communities:**

**Communities that are capable of preparing for, enduring, and recovering from the effects of climate change and other dangers.**

**E. Bamboo as a Construction Material:**

A long-lasting and adaptable material with a high strength-to-weight ratio, flexibility, and natural resistance to moisture and pests. It is a quickly renewable resource that may be farmed close to home, lowering transportation costs and environmental impact.

**ARGLES**

The primary product of the company is argles. They are floating bamboo dwellings that are intended to be sustainable, robust, and affordable. Argles are comprised of renewable materials and are built to survive adverse weather conditions. They are also adaptable to the needs of specific families. We are keeping track of the following argles attributes:

**A. Sustainable Materials:** The renewable and sustainable materials utilized in the argles' construction.

**B. Adaptable Design:** The features that allow the argles to adapt to various settings and needs.

**C. Customizable Features:** The alternatives for tailoring the argles to the specific demands of individual families.

**D. Disaster Resilience:** The characteristics of the argles that make them resistant to damage from harsh weather occurrences.

**E. Eco-Friendly Living:** The qualities in the argles that promote sustainable living habits.

**DIBBLES**

Dibbles are those who create argles. They are talented artisans with the knowledge and experience to create high-quality argles. For dibbles, we are tracking the following characteristics:

**F. Skilled Craftspeople:** Individuals with knowledge and experience in bamboo construction and sustainable building principles.

**G. Community Engagement:** The dibbles' involvement in the community and how they interact with climate refugees.

**H. Cultural Sensitivity:** The dibbles' comprehension of climate refugees' cultural demands and preferences.

**I. Empowerment and Self-Sufficiency:** The ways in which the dibbles help climate refugees become self-sufficient.

**J. Sustainable house Innovation:** The dibbles' commitment to sustainable house design and construction innovation.

**Attribute, Data type, Description**

**Table – 1**

**A. Company Information:**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Description** |
| Company Name | VarChar(50) | Floating Cottages as the company name |
| Location | VarChar(50) | Location of Floating Cottages |
| Contact Number | VarChar(20) | Contact Number of the company |
| E-mail ID | VarChar(100) | E-mail ID to reach out to the query |
| Established Year | Int | Mention the Established year |

**Table – 2**

**B. Floating Bamboo House:**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Description** |
| House ID | VarChar (20) | Unique Identity must be given to each of the floating House |
| House Name | VarChar (50) | Name the Floating Bamboo House |
| Location | VarChar (50) | Location of the Floating Bamboo House |
| Size | Int | Size of floating bamboo house in square metres |
| Number of Bedroom | Int | Number of bedrooms in the House |
| Number of Bathroom | Int | Number of Bathroom in the house |
| Price | Float | Price of the Floating Bamboo House |
| Sustainable Material | VarChar(255) | Sustainable material used for construction |
| Adaptable Design | VarChar(255) | Adaptable Design Features as per the resident |
| Customizable Features | VarChar(255) | List of special features that can be built into the house |
| Eco-Friendly Living Features | VarChar(255) | Features that support environmentally sustainable living practices |

**Table – 3**

**C. Resident Details:**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Description** |
| Resident ID | VarChar(20) | Unique Identity of each resident |
| Name | VarChar(50) | Name of the resident |
| Age | Int | Age of the resident |
| Gender | VarChar(10) | Gender of the resident |
| Contact information | VarChar(100) | Contact information of the Resident |
| Emergency Contact Number | VarChar(50) | Name and contact information of the resident |
| House ID | VarChar(20) | House ID for the Resident |

**Table – 4**

**D. Maintenance Request :**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **Description** |
| Maintenance request ID | VarChar(20) | Unique Maintenace Request ID |
| House ID | VarChar(20) | Mention The House ID To Which Maintenance Request is initiated |
| Description | Varchar(255) | Description of maintenance issue |
| Assigned technician | Varchar(50) | Name of technician assigned to request |
| Completion Date | Date | Date when maintenance was completed |
| Priority | Int | Priority level of maintenance request as low, medium, high |

**Table – 5**

**E. Bamboo Supplier - Bamboo Buoyancy**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data Type** | **Description** |
| Supplier Name | VarChar(50) | Name of the Supplier |
| Bamboo Quality | VarChar(20) | Quality of the supplier |
| Location | VarChar(50) | Location of the supplier |
| Phone Number | VarChar(20) | Phone number of the supplier |
| Contact E-mail | VarChar(100) | Mail ID of the Supplier |
| Supplier Details | VarChar(50) | Details of the supplier |

Github Url :

gh repo clone Rishi1439/Floating-Bamboo-Houses-for-climate-refugees