

CARE

Creating and Revitalizing Energy

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Goal of Our Design

- ❑ Identify frequent energy use and loss through comparisons of building attributes, such as energy type or building age
- ❑ Find out energy consumption & carbon emissions of campus buildings on a Gross Square Footage basis
- ❑ Discovering and using a pattern of energy demand from different campus buildings to have a forecast
- ❑ Be able to calculate the reward or cost for replacing/rebuilding structures

Site Plan Project

Cost: \$ 0
Power Usage: 0 KW

Buildings

No Buildings

Building Specifications

Building Type: _____
Gross Floor Area: _____
Year Built: _____
Operational Hours: ____ to ____
No. Computers: _____

Add Building

UI 1 Main Goal: Determine cost and result of building something more sustainable or with different specifications



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Queries

Date

Start From: Month/Day/Year

End On: Month/Day/Year

Buildings(s):

Select to Add

List of Buildings Selected:

No Buildings Selected

Delete Selection

Building Details:

Name:

ID:

Year Built:

Gross Floor Area:


Search Results:

Cost: \$0

Power Usage: 0 kWh

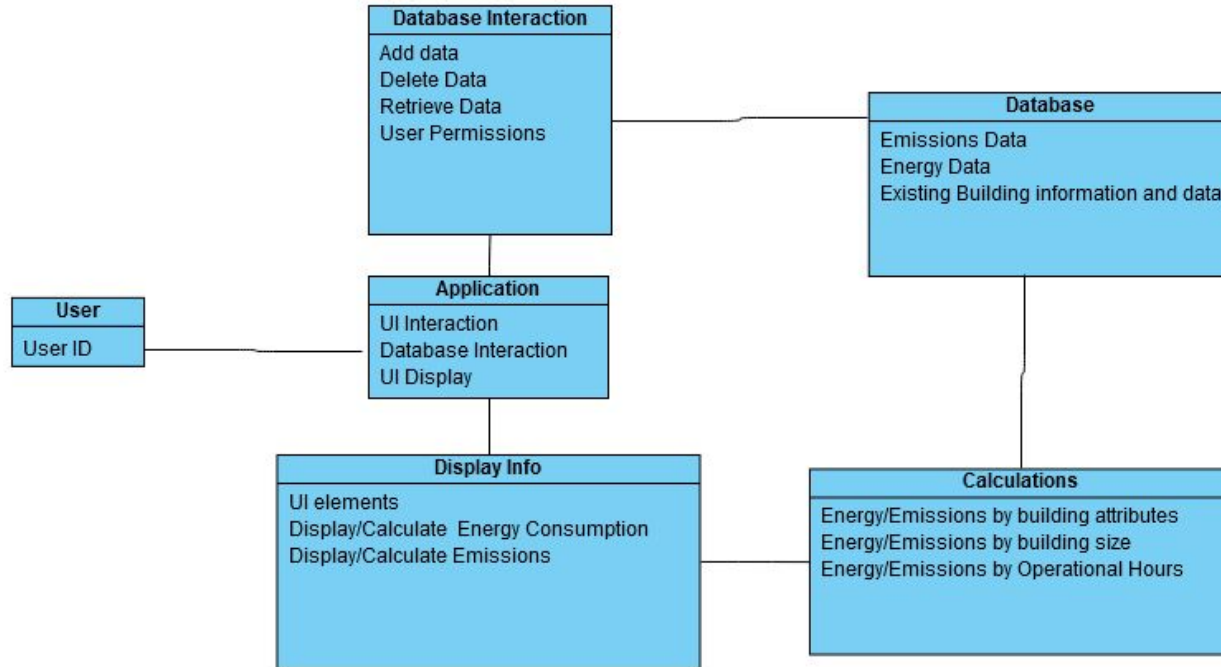
Sustainability Score: (Scale of 1 to 10)

UI 2 Main Goal: Determine cost effectiveness and sustainability of existing buildings

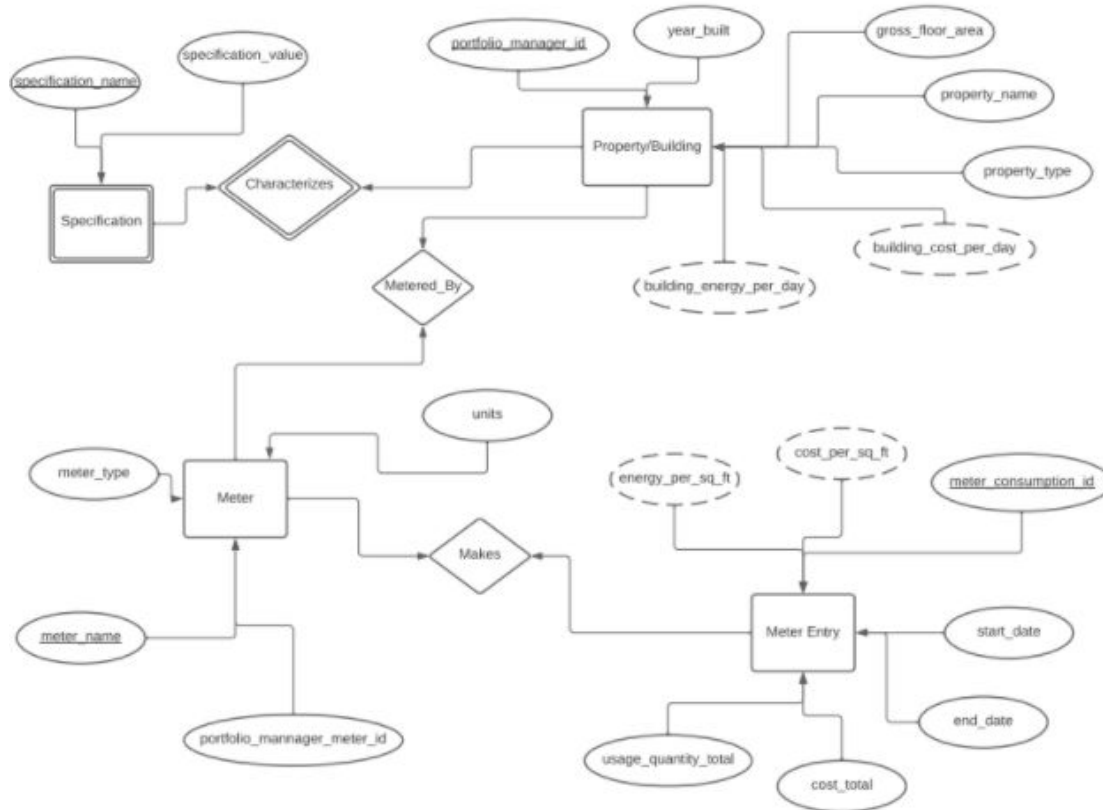


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System Boundary



ER Diagram



Things of Note:

- 3 Main Entities
- 1 Weak Entity
- 3 Relations
- 4 Derived Attributes



Relational Schema

Things of Note:

- Showcases links between tables
- Keys
- Relationships

