

LAHAINASIM



FIRST PLACE CODED SOLUTION - HAWAII ANNUAL CODE CHALLENGE 2023

VENGEN: Eda Cadiena, Ethan Chee, Timothy Huo, Michelle Leano, Marissa Halim

HACC Challenge

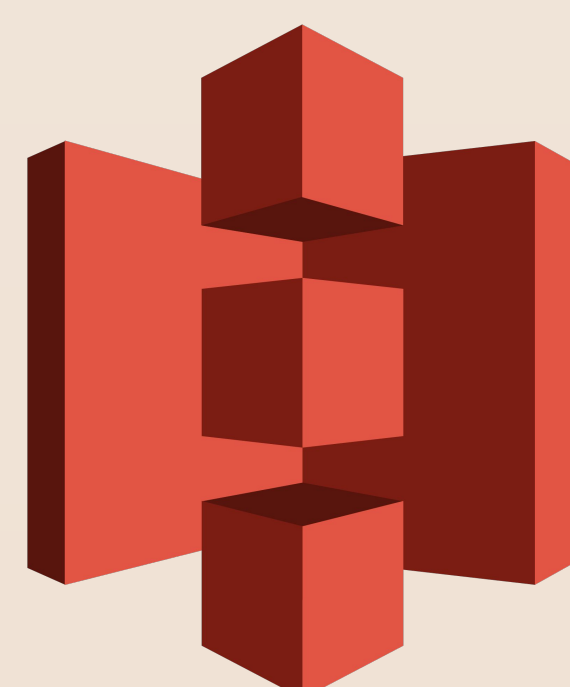
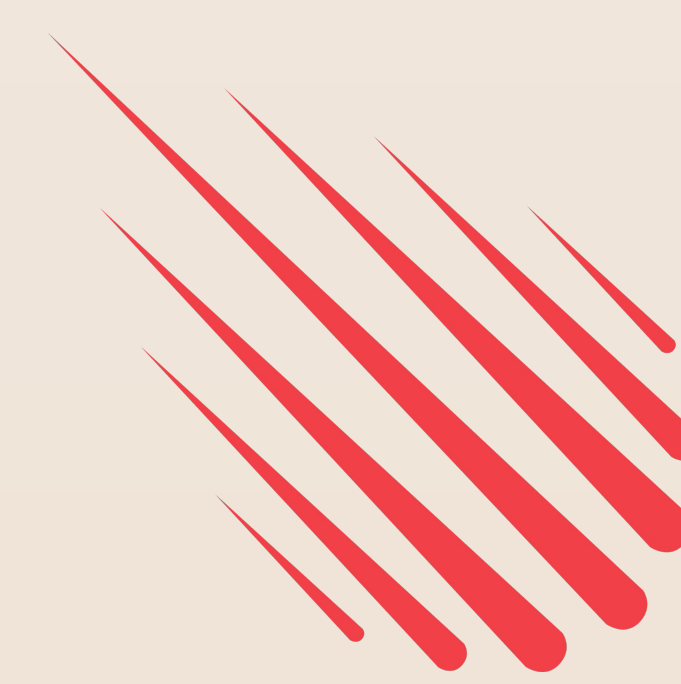
- Lahaina, Maui was devastated by the August fires, causing the following problems: housing crisis, loss of Front St business, environmental mismanagement, and slow traditional planning
- The goal was to create a web portal to facilitate civic engagement around rebuilding Lahaina, including surveys, forums, sharing design concepts with visual and data models for economic, environmental analysis

Features Delivered

- 3D Modeling: Upload customized 3D models of Lahaina infrastructure
- Virtual Simulation: Explore virtual Lahaina with integrated 3D modeling
- Discussions: Foster community engagement through comments and threads
- Statistics: View statistics of Lahaina
- Generative AI: Rapidly brainstorm urban planning ideas for the restoration of Lahaina

Technologies Used


- ReactJS, HTML, CSS, JavaScript, MongoDB, Bootstrap UI
- Digital Ocean for deployment
- Mapbox to simulate a map of Lahaina with models
- Dall-E for image generation to enrich uploaded models
- Amazon S3 to store 3D models
- Places API for precise navigation to address inputs



Primary Features

Share 3D Models

New Model



Upload 3D Model

Choose File

Current supported files: gltf

Estimated Model Cost

\$ 1000000

Upload Photo Inspiration

Drag 'n' drop some files here, or click to select files

AI Generated Photo Inspiration

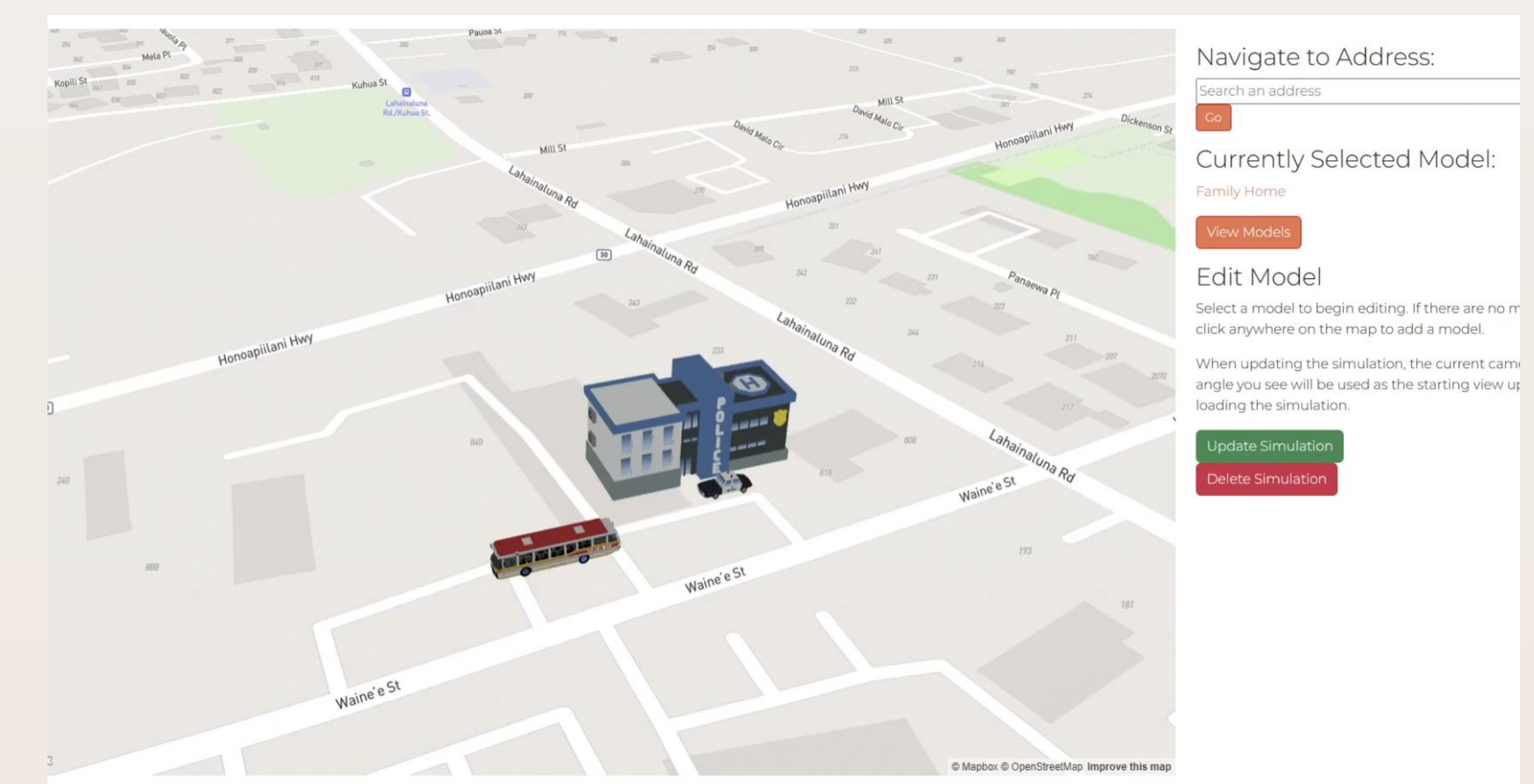
Dall-E Image Generator

Upload Model

Adjust the perspective you would like to display your model.

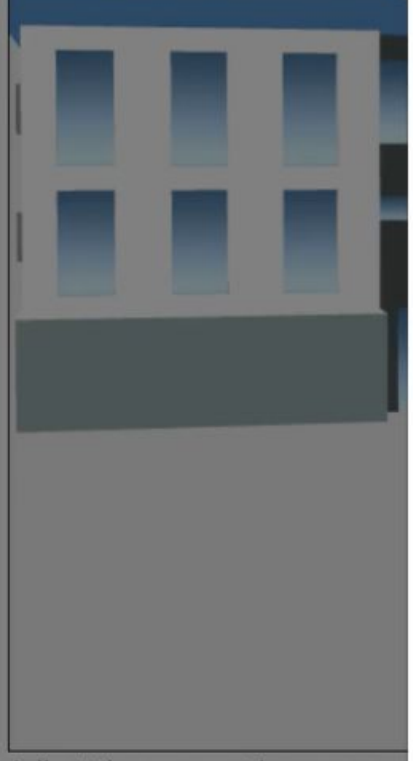
- Clicking and dragging with your mouse will rotate the model.
- Holding SHIFT or CTRL while dragging will move the model.

Create Simulations



Dall-E Generative AI for Images

New Model




Dall-E Image Generator

Dall-E is an AI system that can create realistic images and art from a description. Enter a detailed description

police station with lots of parking and grass in the front

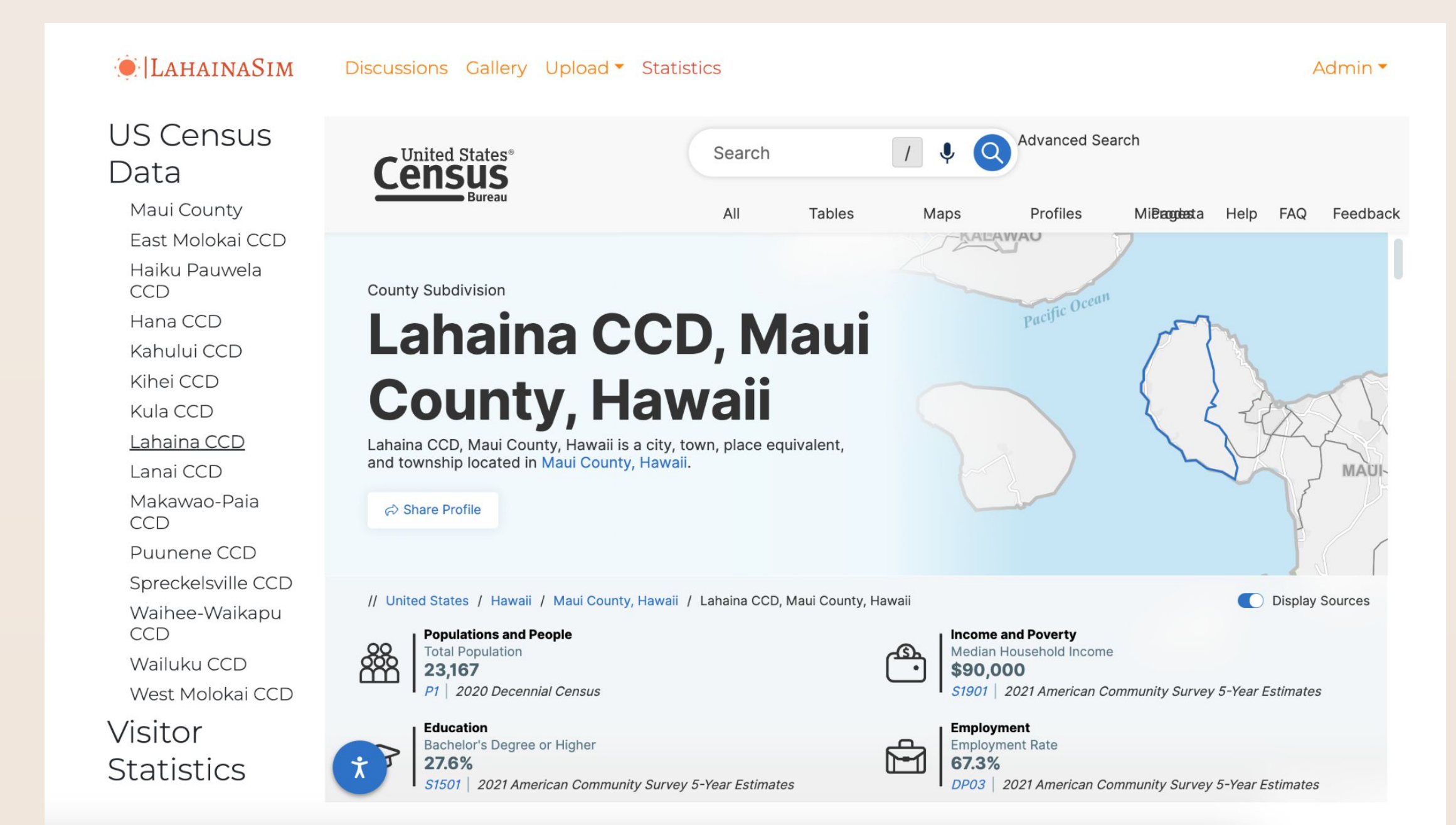
Generate



Adjust the perspective you would like to display your model.

- Clicking and dragging with your mouse will rotate the model.
- Holding SHIFT or CTRL while dragging will move the model.

View Statistics of Lahaina



Collaborate on Discussions

Estimated Cost: \$280

Number of buildings:

Community Feedback

Add a comment...

Submit

user1234567890
please leave your feedback! thank!

Admin
I think it looks great!