Koala RE

Team # 55

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How might we?

How might we enable real estate owners to indicate interest in selling property without actively listing their property?

CORNELL TECH

TISHMAN SPEYER

Our Idea

Bidirectional platform that connects both property owners and property developers who are interested in finding opportunities to buy & sell real estate, and enables them to coordinate assemblage transactions without the typically cost-intensive due diligence process.

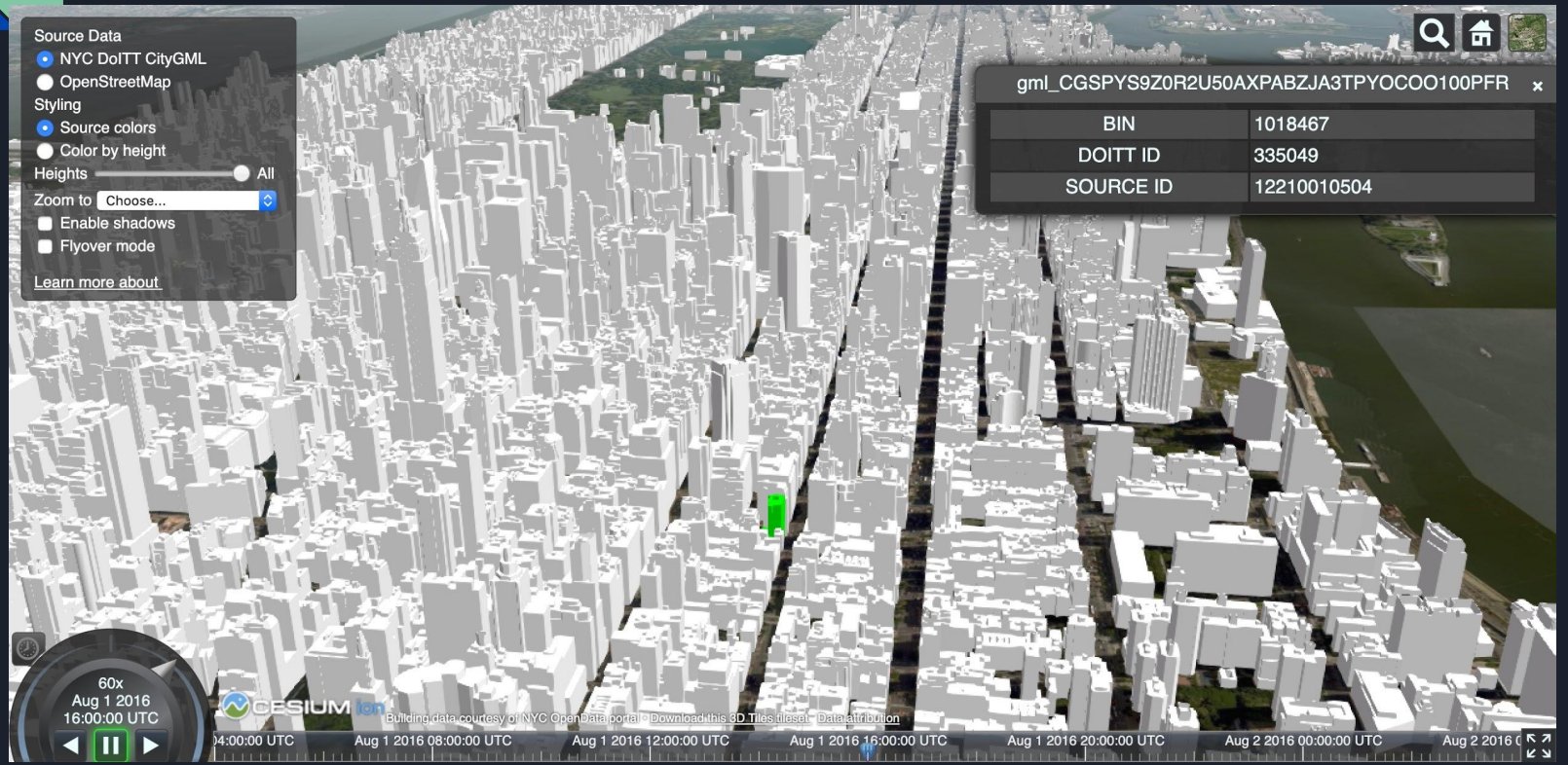
Product Prototype Experiment Results

- Researched technical feasibility of integrating tax block into Google maps
- Raw Tax Block data from NYC government

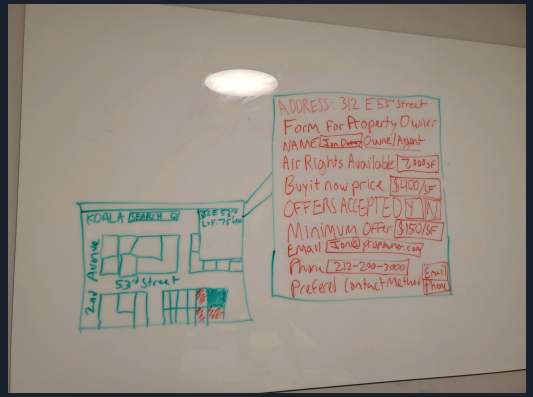
This document lists metadata sources for data updated and maintained by the NYC Department of Information Technology and Telecommunications (DOITT).

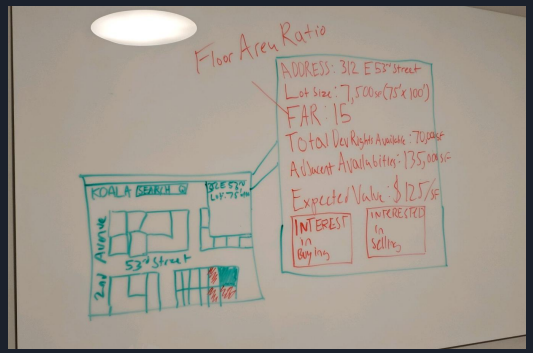
Data/Layer Name	Description	Preview
3-D Building Model	3-D Building Models representing every NYC building present in the 2014 aerial survey. Models are based on a hybrid of the CItyGML Level of Detail (LOD) 1 (simple/prismatic buildings with flat roof detail) and LOD 2 (includes roof structure details) with approximately 100 iconic buildings modeled to LOD 2. Highlights of the model include the differentiation of building components including roof, facades, and ground plane.	
Address Point	Address points are part of the Citywide Street Centerline (CSCL) database. The data represent visually identifiable and Borough President assigned addresses within NYC. Placement of the address points are approximately five feet within the respective building footprint along street front the address is assigned.	
Aerial Imagery	Raster file of vertical aerial imagery covering New York City. Imagery is captured every 2 years during spring/summer months and corrected through computer processes to remove distortions caused by elevation changes and camera angles.	
Building Footprints	Building footprints represent the perimeter outline of each building. Divisions between adjoining buildings are determined by tax lot divisions.	

3D View of Blocks and Lots in NYC



Object-Oriented Design



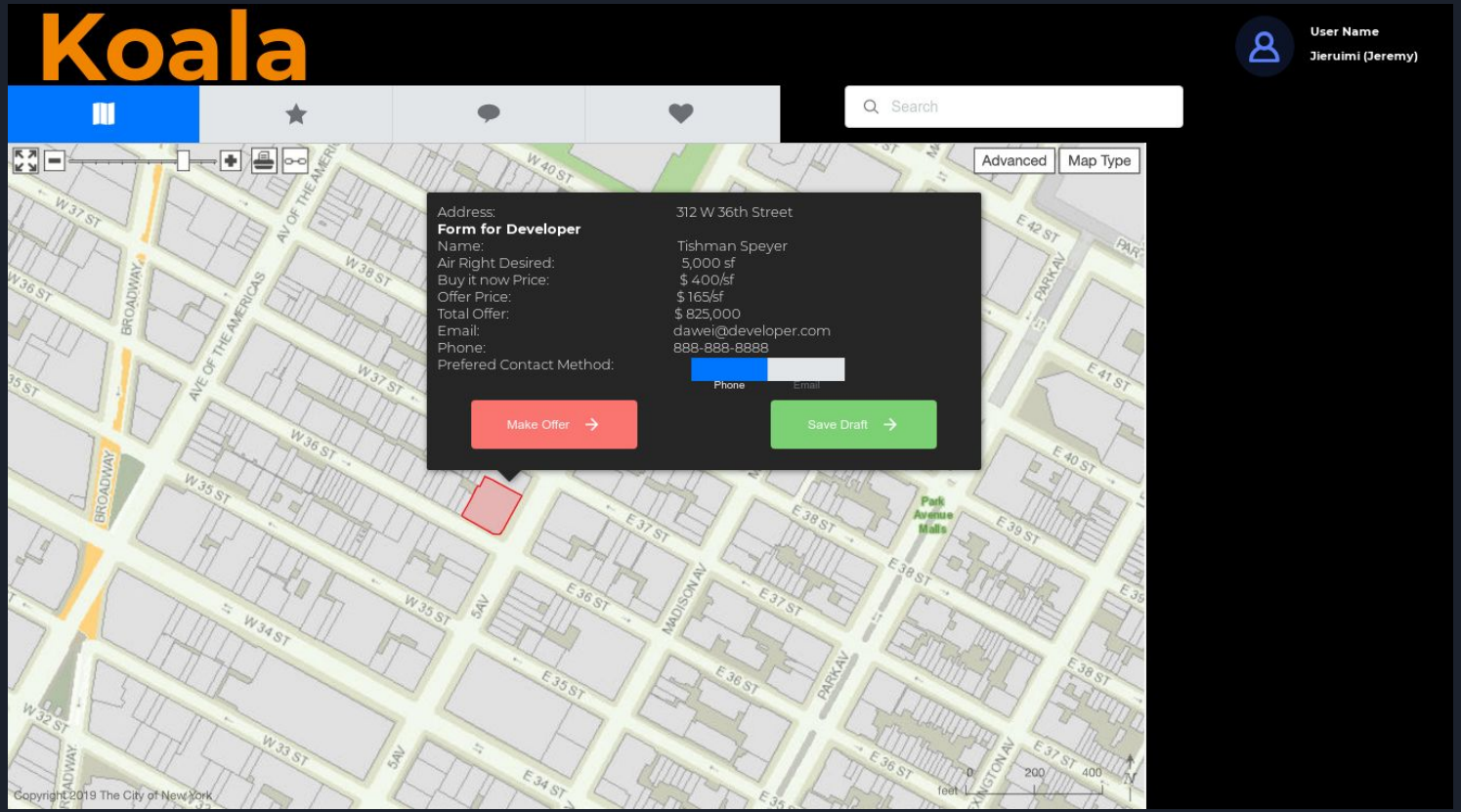


Experimentation Progress

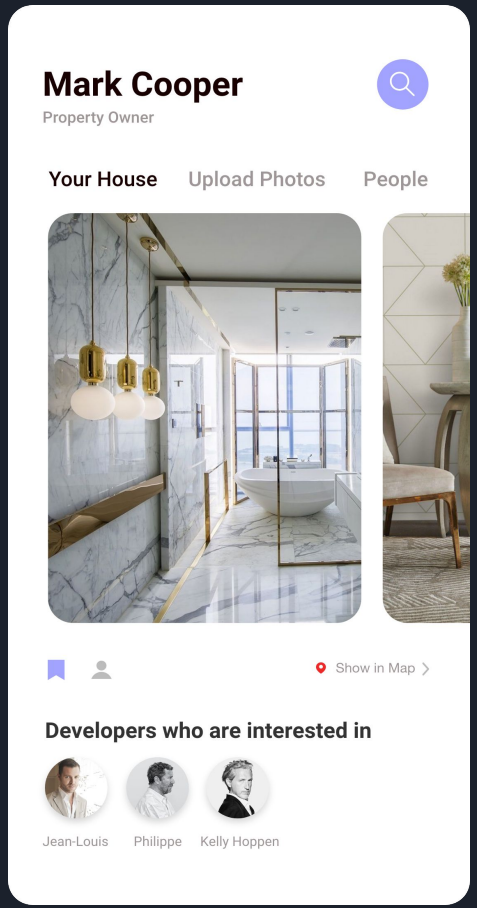
Website Object-Oriented Design:

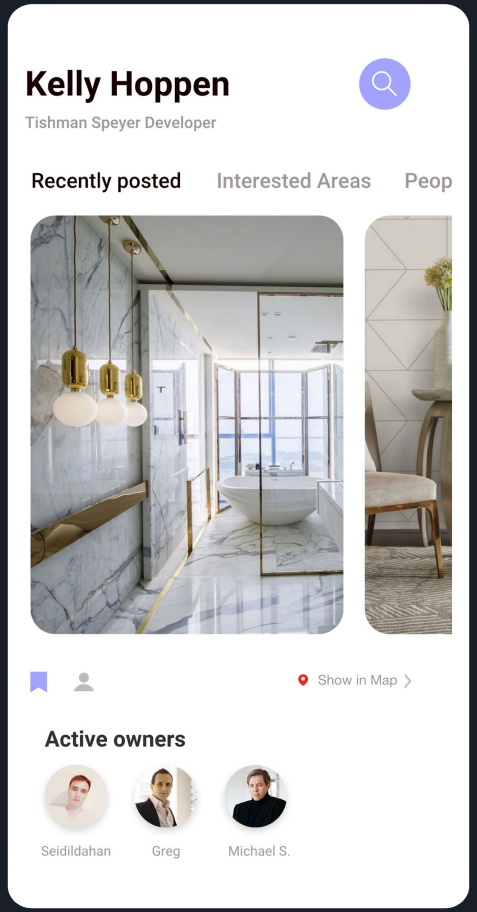
- **User (2 types of users)**
  - **Owner**
    - Attributes:
      - Address -> Block object
      - Interest in Selling -> Boolean
      - LLC -> String
      - Neighbors -> List of User objects
      - Alerts -> List of Alerts (Alert_Owner)
      - Pricing -> Double
    - Actions:
      - Indicate Interest in selling
      - Indicate Price
      - Change address
      - Check the neighbor's status
      - Combine lots to Sell
      - Communicate with Developer
      - Generate a legal sale agreement with the developer
  - **Developer**
    - Attributes:
      - Interested Areas -> List of Blocks
      - LLC -> String
      - Alerts -> List of Alerts (Alert_Developer)

2D View of Blocks and Lots in NYC



Mobile Prototype





Thank you.

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