



HALO
INTELLIGENCE

“to bring AI products that can enhance energy utilization, productivity, and working efficiency for our users; Meanwhile, liberating humanity from repetitive work.”

The first product we are planning to launch:



An advertising platform based on auto tagging system and search engine powered by AI.

Dwellner contains three major markets: Housing Rental, Item Market and Labor Market.



An advertising platform based on auto tagging system and search engine powered by AI

Problem

- Unable to **efficiently** publish, view and retrieve housing advertisements across different platforms.
- advertisements are antiquated, **unmanaged**, no regulation
- Difficult to conduct a **comprehensive** search of listings in the target area

Solution

A web platform where users can comprehensively filter managed housing advertisements with “unique expression” tags.

LANDLORDS:
Save Time on Publishing

TENANTS:
Save Time on Searching

REAL ESTATE MANAGERS
Free Housing Management & Information Disclosure System

Product

Efficiency: The Tag System



McMaster University

Landlords upload photos and edit tags for their posts

WiFi

Silence period: 22:00 - 6:00

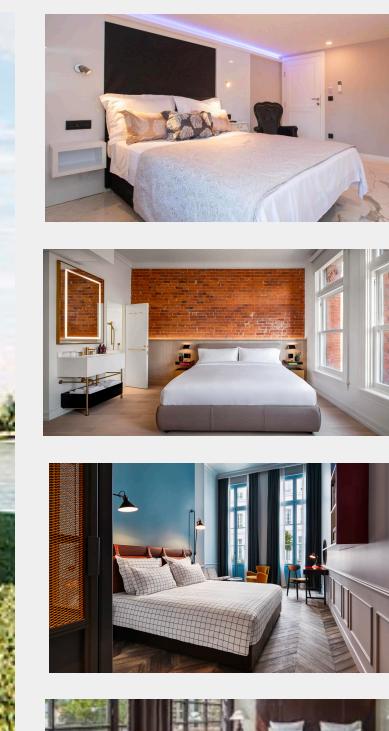
Kitchen

Washer

Heating

Air conditioning

Do not smoking...



Exclusive Tag

Describing Tag

Not in database

***NLU Auto-Tag System**

Exist Same
meaning tag

Not Exist
Same meaning tag

Merge to a certain Tag

Create a new Tag

* NLU stands for natural language understanding

Product

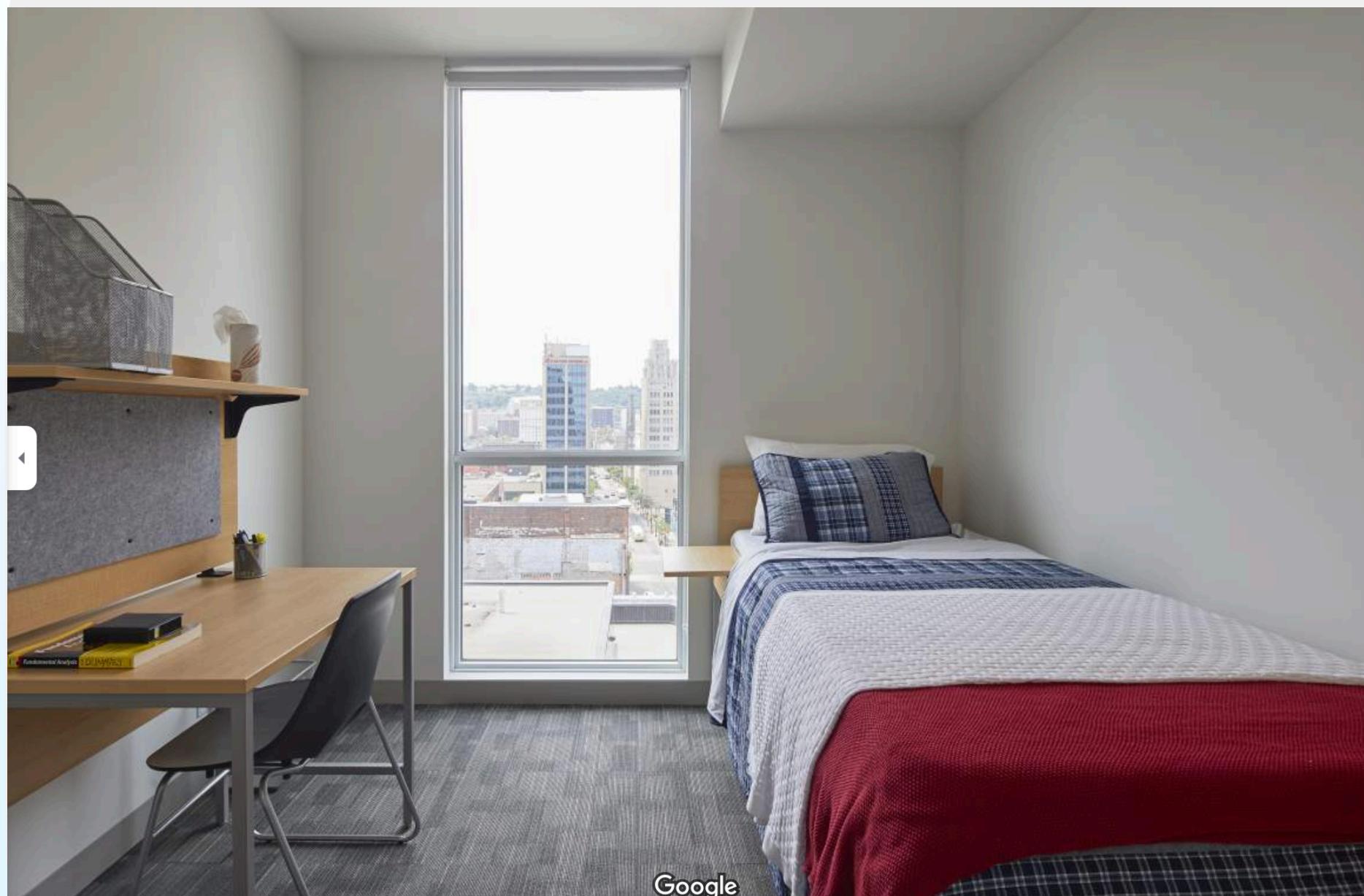
Comprehensive & Quality



McMaster University

searching by target place

William Thomas Building: student apartments



Floor Plans

2	2	2
3	3	2
4	4	...

Availabilities

2	2	NO	3	2	NO
3	3	NO	4	2	YES
4	4	YES			...

Community Posts

Sublet:	26
Sublease:	9

20 Rebecca St, Hamilton, ON L8R 0A5, Canada

[I am the manager of this building, I would like to take over it](#)

Real estate managers can claim the ownership
to enjoy free management systems and paid promotion services

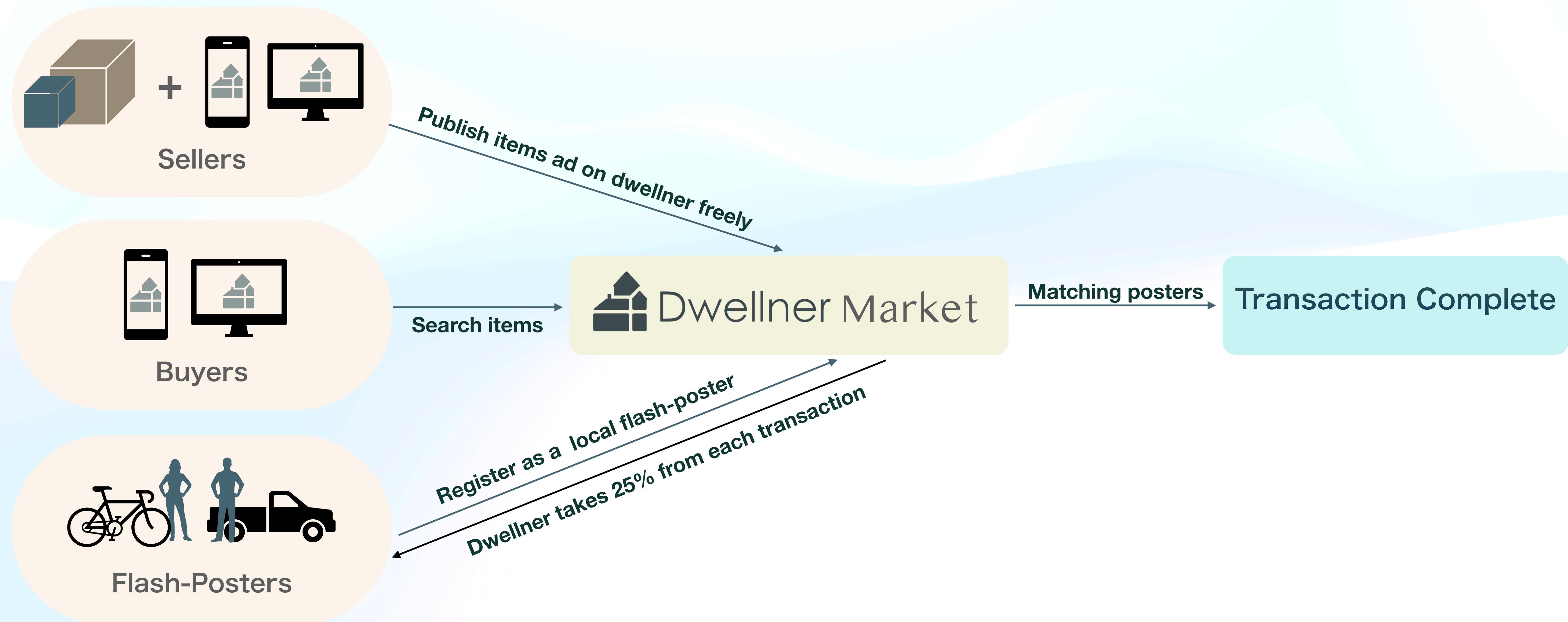
Business Model

Value-added services for housing rental

Intentions	Identities	House Owner Brokerages	Apartment/Condo managers	Tenant
Saving Time	 Dwellner+ Paid promotion	 Dwellner+ Paid promotion	Auto-Reserve & Remote contract	
Entrust	house rental entrustment	Building entrustment	In-person Services	

Business Model

Value-added services for item transaction



Competition

Searching Efficiency



Quality^{0.5} + Real-Time^{0.5}



university Official Platforms



Competitive Advantage



Google Maps

Apartments & Condos Searching System based on Google Maps APIs



The most authentic translation for each tag



Deep Learning Model (multilingual BERT) Based Automatic Tagging System



Machine Learning Model based Regulatory system; To judge the validation of ads.



Dwellner

Efficiently publish, retrieve and view advertisements



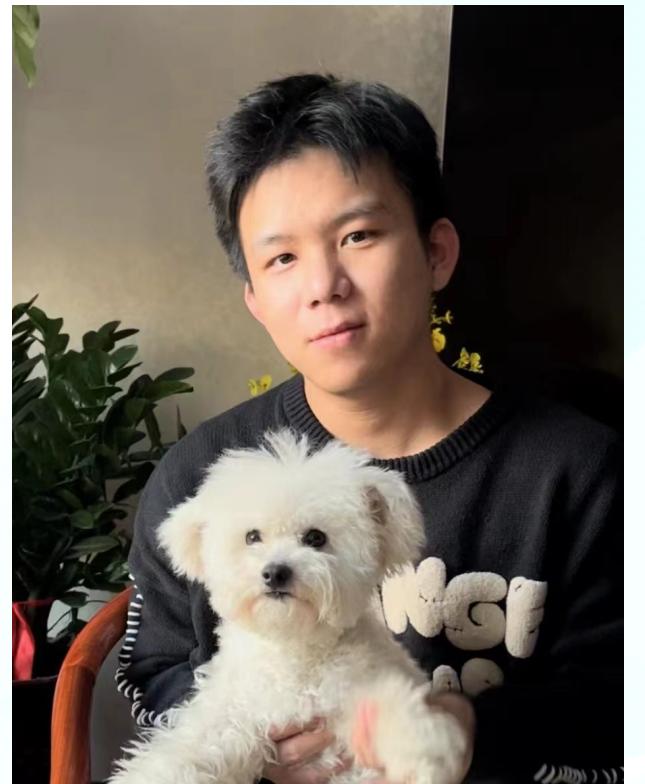
Free-to-use apartment management system



Web-wide data collection

Online Transaction

Team



Mingze Sun, Business Development & Brand & Product Design
Applied Economics Major & Computing Minor
Bachelor of Arts: Queen's University
Master of Finance: McMaster University
Past Intern: Samsung Research China (Speech Lab)



Ziyuan Yu, Developer
Bachelor: Queen's University
Specialized in Software Design
Professional Java Developer



Yiwen Feng, Machine Learning Researcher
Specialized in Computer Science
Bachelor: Queen's University
Master: University of Toronto
Professional in Research of NLP