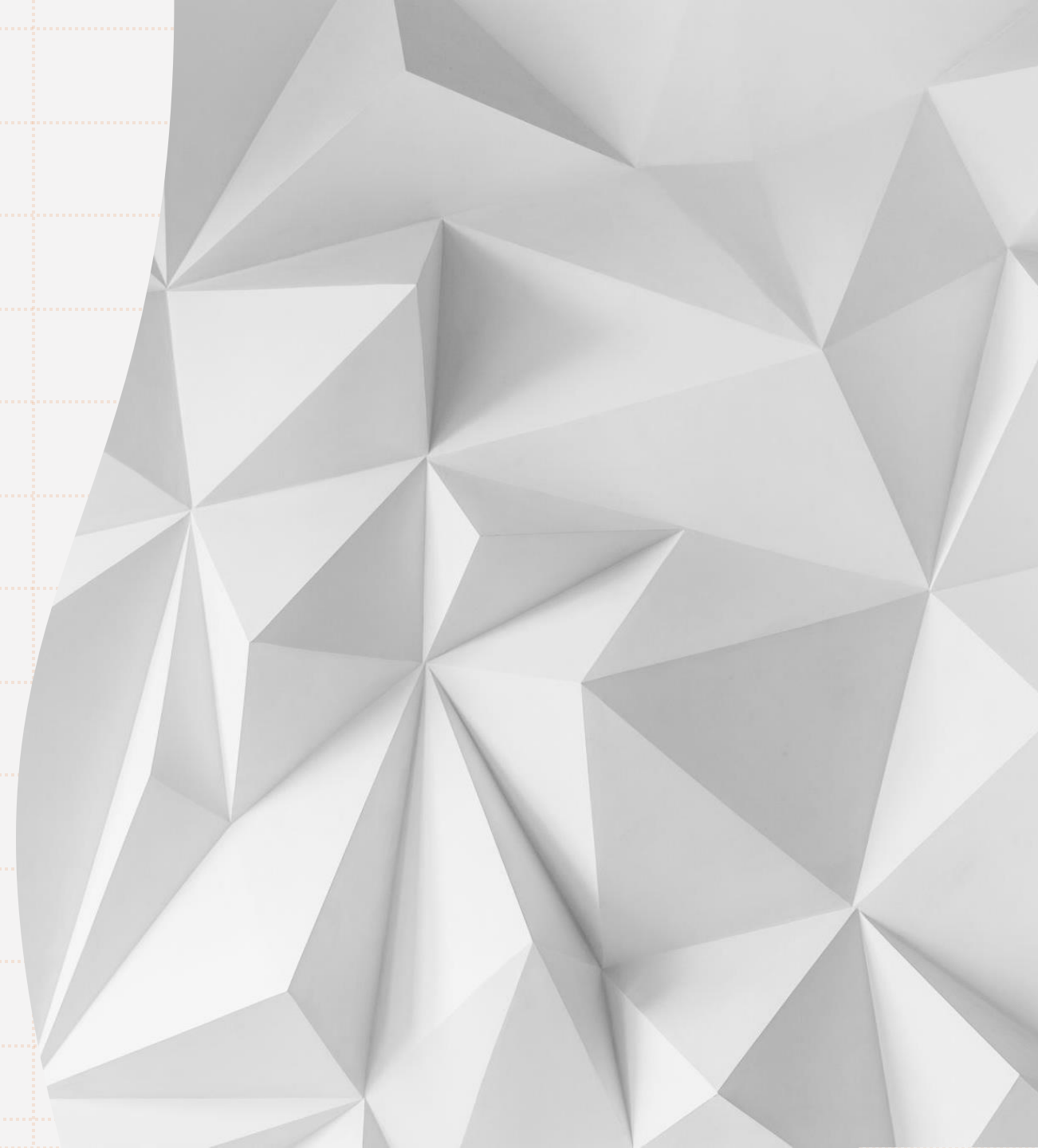


Leasy

Short-term house
hunting made easy for
students and interns

By Katie Le

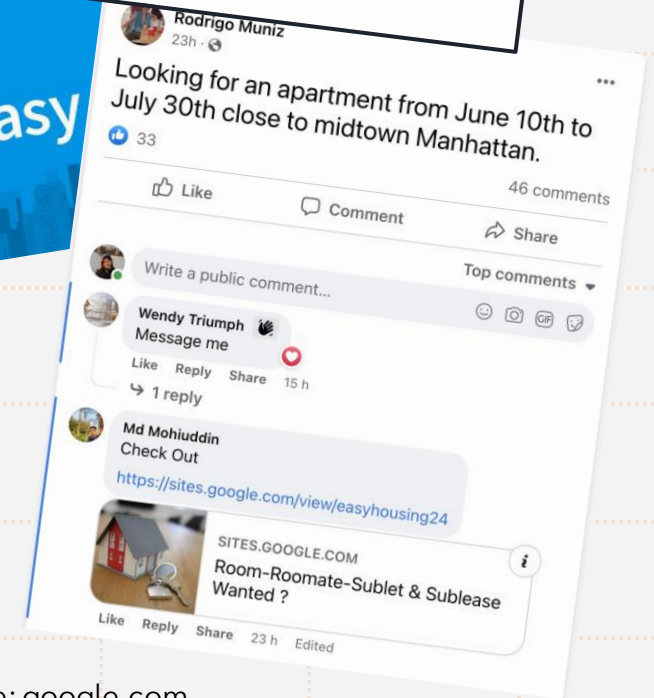
COMP 378 - Spring 2022



Project motivation

- Online apartments require >1-year lease and a full-time job
- Hassle and scams
- Extra fees (landlord, broker, Airbnb)

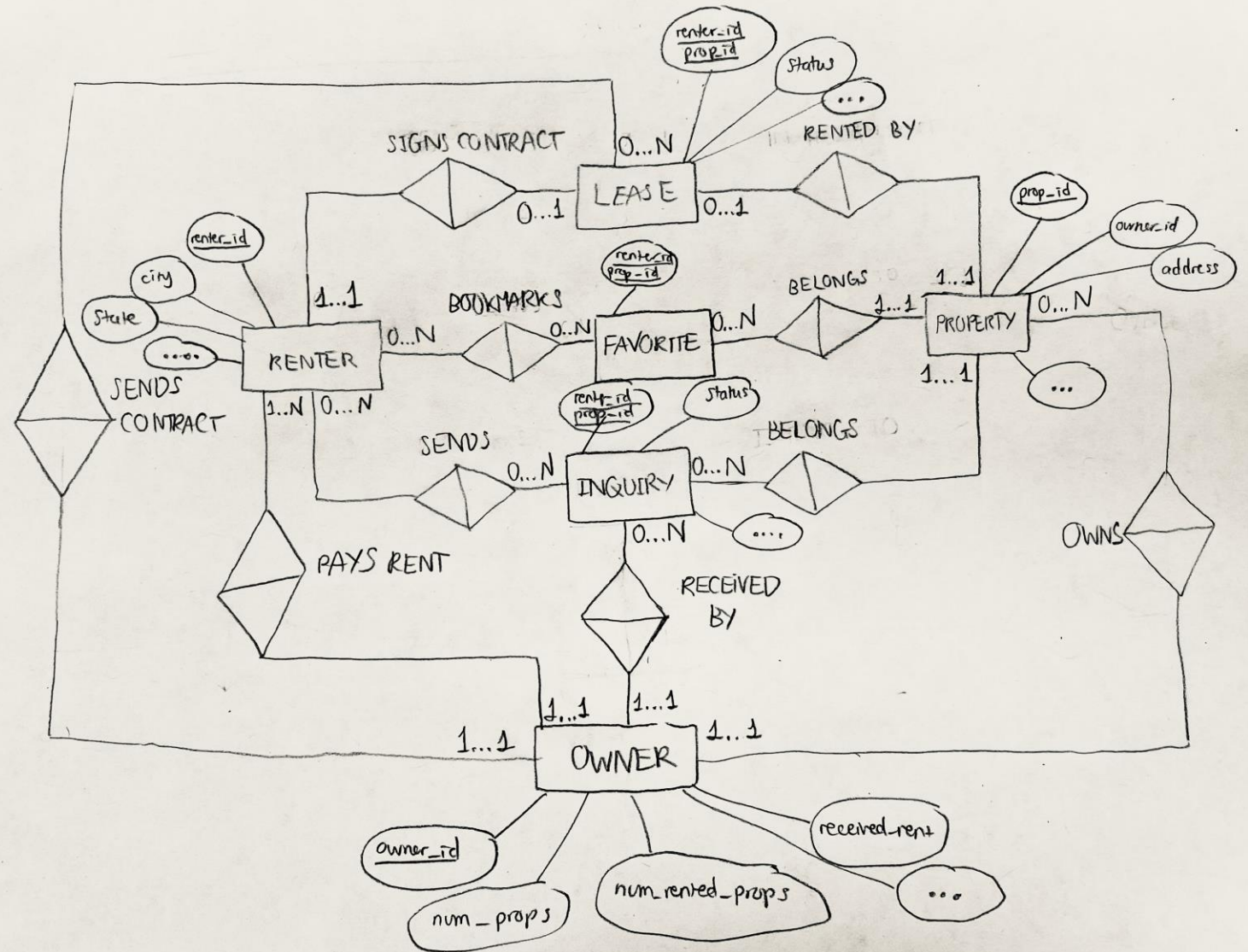
→ **Solution:** a one-stop-shop for finding subleases targeting students/interns



Source: google.com

Database design

- ER Model
- phpMyAdmin



Tables – Entity types

renter

renter ID	name	city	laundry	furnished	bedrooms	bathrooms	move-in date	status	...
113	Eren	New York	Yes	Flexible	2	1	2022-06-12	Looking to rent	...
245	Reiner	Seattle	Flexible	No	1	1	2022-05-20	Rented	...

owner

owner ID	name	total properties	total rented properties	received inquiries	accepted inquiries	received rent
342	Levi	2	1	10	3	\$12,000
825	Mikasa	5	3	6	1	\$5,000

property

prop ID	owner ID	address	city	monthly rent	laundry	furnished	bedrooms	bathrooms	status	...
8067	342	129 Putnam Ave	Houston	\$950	Yes	Yes	2	1	Available	...
3700	825	235 W 55 th St	New York	\$1,200	No	No	1	1	Taken	...

Tables – Relationship types

inquiry

<i>renter ID</i>	<i>prop ID</i>	<i>inquiry date</i>	<i>status</i>	<i>owner ID</i>
113	3700	2022-05-05	Received	342
245	8067	2022-04-23	Accepted	825
113	8067	2022-04-01	Accepted	825

lease

<i>renter ID</i>	<i>prop ID</i>	<i>lease date</i>	<i>status</i>	<i>owner ID</i>
113	3700	2022-05-07	Paid	342
245	8067	2022-05-12	Unpaid	825

favorite

<i>renter ID</i>	<i>prop ID</i>
113	3700
245	8067

Functionality

A start-to-finish
leasing process

Renter

search

inquire

sign contract

pay rent

Owner

post a listing

accept
inquiries

send contract

receive rent

Property

Add a new renter

renter_id	first_name	last_name	budget	city	state	laundry	furnished
201	Eren	Jaeger	NULL	New York	NY	Flexible	Flexible

Add a new owner

owner_id	first_name	last_name	num_props	num_rented_props	rece
110	Caroline	Girvan	0	0	0

Add a new property associated with an owner

prop_id	owner_id	address	city	state	monthly_rent	laundry
8100	110	129 Putnam Ave	New York	NY	1200.00	Yes

Renter

Search for properties matching a renter's needs

Required filters:

- City
- State
- Move-in date
- Duration (months)
- etc

Optional filters:

- Budget
- Laundry
- Furnishing

8200		110		234 Pavonia Ave		New York		NY		1600.00		Yes		No
8100		110		129 Putnam Ave		New York		NY		1200.00		Yes		Yes
8300		342		376 West 55th Street		New York		NY		1750.00		No		

Renter

Send an inquiry about a property

renter_id	prop_id	inquire_date	status	owner_id
201	8300	2022-05-09	Received	342

Sign a contract

renter_id	prop_id	lease_date	status	owner_id
204	8100	2022-05-09	Signed	110

Pay rent

renter_id	prop_id	lease_date	status	owner_id
204	8100	2022-05-09	Paid	110

received_rent
1200.00

Bookmark favorite

renter_id	prop_id
202	8200

Owner

Accept inquiry(s)

renter_id	prop_id	inquire_date	status	owner_id
204	8100	2022-05-09	Accepted	110
204	8200	2022-05-09	Accepted	110

Send a contract

renter_id	prop_id	lease_date	status	owner_id
204	8100	2022-05-09	Awaiting signature	110

Receive rent

renter_id	prop_id	lease_date	status	owner_id
204	8100	2022-05-09	Paid	110

received_rent
1200.00

Roadmap



Track payment



Deposit before
paying rent



Schedule tour



Rank inquiries

Challenges

- Brainstorming real-life search scenarios as a renter
- SQL date conversion and comparison
- Making update to multiple tables per transaction

The background features a light beige grid of dashed lines. On the left side, there is a large, semi-transparent grey circular shape. On the right side, there is a large, semi-transparent blue circular shape. The text "Demo..." is centered in the middle of the grid.

Demo...

The background features a light beige grid of dashed lines. On the left side, there is a large, light grey circular shape. On the right side, there is a large, light blue circular shape. The text "Thank You" is centered in the middle of the page.

Thank You