

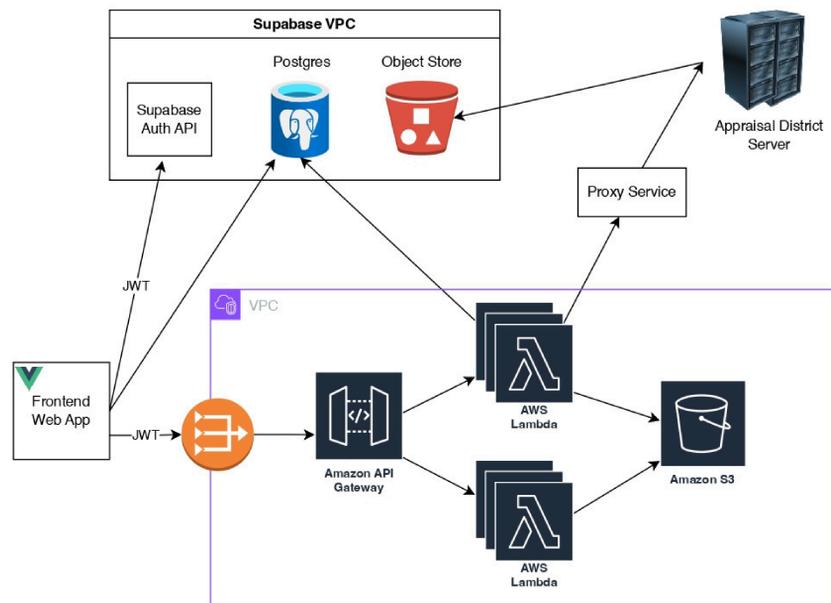
INTRODUCTION

- Trailspur employees manually scout commercial real estate by downloading geodata, merging it with parcel details from CoStar, and linking parcels to owners and deeds using services, which is an inconvenient process.
- Our project aim to better automate process, and minimize human interaction while maximize the data potential.

OBJECTIVES

- Automate fetching, cleaning, and hosting of County Appraisal District data and Costar Vacancy Listings data.
- Perform Spatial Join on commercial real estate data from disparate sources to create unified single source of truth.
- Generate potential acquisition targets using complex queries
- Track Ownership Changes in the County and Generate Report.
- Track comments and outreach efforts for Acquisition Targets
- Develop modular software.

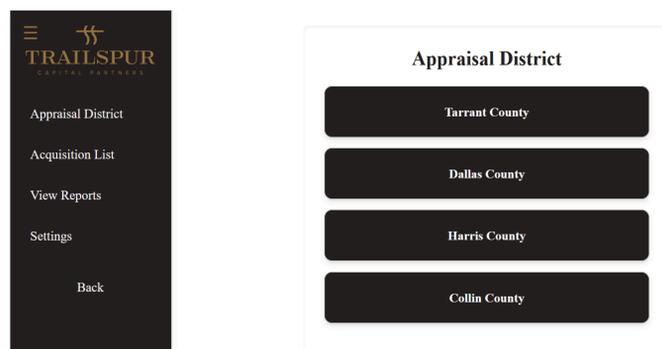
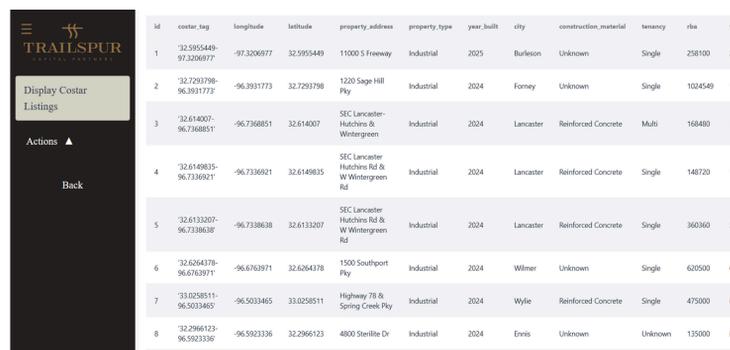
SYSTEM ARCHITECTURE



USE CASES

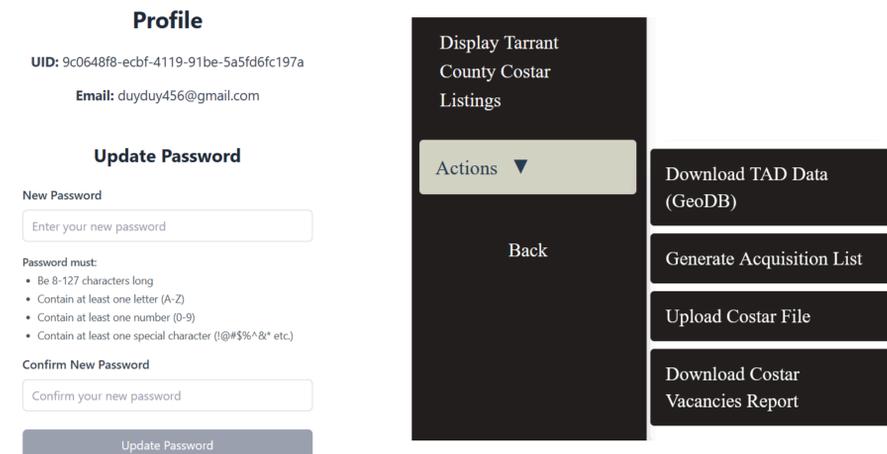
- Import Vacancy Listing Data from CoStar
 - The User uploads CoStar Excel data files. The data is saved in the database.
- Upsert CoStar Vacancy Listing data
- Download County Appraisal District GeoDatabase
- Authorization and Authentication
 - The Users can login to access the website's functionalities, as well as reset password
- Perform Spatial Join to generate Acquisition List
- Download the Ownership Change Report

FEATURES

A screenshot of the 'Display Costar Listings' page. It shows a table with columns: id, costar_tag, longitude, latitude, property_address, property_type, year_built, city, construction_material, tenancy, rta, and tests. The table contains 8 rows of property listing data.

ID	TAD_ID	SITUS_ADDRESS	CALCULATED_ACRES	OWNER_NAME	OWNER_ADDRESS	OWNER_CITY	OWNER_STATE	OWNER_ZIP	INSTRUMENT_NO	DEED_DATE
1	245570	2610 AVIATION PKWY	0.72415328	BPH LEASINGLLC.	2610 AVIATION PKWY	GRAND PRAIRIE	TX	75052	D217261531	08-21-2017
2	158634	604 S WISTERIA ST	1.496	MANTOS, JAMES R	604 S WISTERIA ST	MANSFIELD	TX	76063	D203420025	11-03-2003
3	143888	500 E BROADWAY AVE	0.15066209	TBRA LAND LLC	500 E BROADWAY AVE	FORT WORTH	TX	76104	D222054692	02-28-2022
4	591979	305 NW 24TH ST	0.95338038	GLOBAL WORLD INC	305 NW 24TH ST	GRAND PRAIRIE	TX	75050	D206309920	09-29-2006
5	298349	501 DIXON LN	0.60462873	HINOJOSA, ALBERTO HERNANDEZ	501 DIXON LN	ARLINGTON	TX	76012	D214072050	04-08-2014
6	571244	2330 DOREEN ST	0.15662666	SALAS, NICOLAS	2330 DOREEN ST	GRAND PRAIRIE	TX	75050	D208044369	01-29-2008
7	303476	2470 DOREEN ST	0.44737642	AERO SPACE WELDERS INC	2470 DOREEN ST	GRAND PRAIRIE	TX	75050	0007478000	04-05-1983
8	544448	425 JESSE ST	0.42672144	SHOLIN, JOHN H	425 JESSE ST	GRAND PRAIRIE	TX	75051	D204396410	12-22-2004
9	591955	2378 HOUSTON ST	0.28974808	JINKS, JOHNNY	2378 HOUSTON ST	GRAND PRAIRIE	TX	75050	0010673000	06-01-1992
10	591923	2318 HOUSTON ST	0.29291689	CVM 1 LLC	2318 HOUSTON ST	GRAND PRAIRIE	TX	75050	D223116232	06-30-2023



TECH STACK



Vue.js

Frontend



AWS Lambda

Backend



Supabase

Database

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- We sincerely appreciate Dr. Bingyang Wei for his valuable feedback throughout the design process, helping us stay focused on key goals, and thoughtfully addressing our questions.
- We also extend our gratitude to Mr. Ryan Mitchell for setting a clear project goal and providing the necessary funding to support its completion.