OAKhoury Trees Presentation

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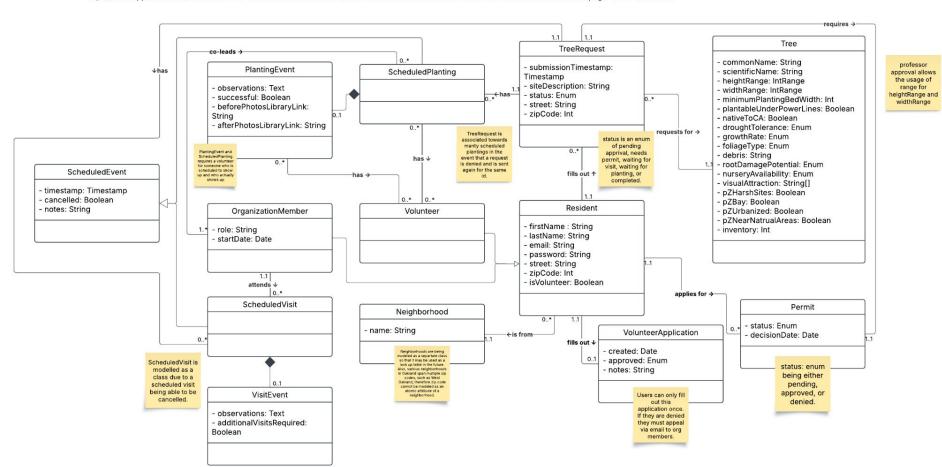
Project Motivation

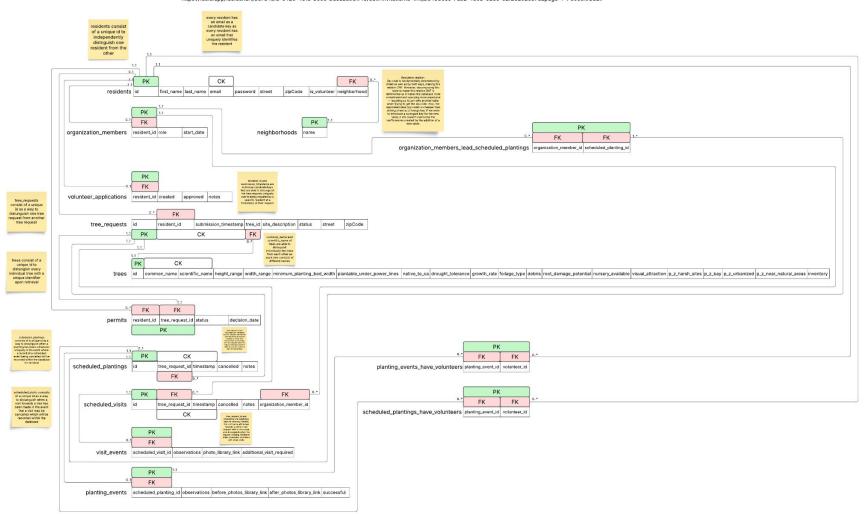
Residents who want to have a tree planted within their neighborhoods have issues requesting as the only way possible is through a slow google form where data may be mixed up and be inconsistent. Volunteers also have an unclear way to stay informed about the events occurring within their community.

This project modernizes the process for residents and volunteers through the creation of a centralized platform, allowing for people to request trees, track progress, and participate towards the planting events. The system allows for a more efficient and effective system where data is well organized and provides a clear view on how people will be able to improve their community.

System Description

The system is able to allow residents to register as a user. Users will be able to request for a tree and are also able to send requests to become volunteers. Administrators who are members of the organization are able to approve of these requests for a tree and volunteer. Administrators are also able to view the details for a tree request as well as manage the planting events. This allows for them to keep track of all the data concisely rather than having a google form with disorganized data.





		('moderate', 'high', 'very high');	CREATE TYPE status AS EMMI ('pending', 'approved', 'denied'); CREATE TABLE permits
		ow', 'moderate', 'fast', 'very fast');	(resident_id INTEGER REFERENCES residents (id) ON DELETE CASCADE ON UPDATE NO ACTION,
CREATE TABLE neighborhoods	CREATE TYPE root_damage AS ENUM (deciduous', 'drought-deciduous', 'evergreen', 'semi-evergreen', 'late-deciduous');	tree_request_id INTEGER REFERENCES tree_requests (id) ON DELETE NO ACTION ON UPDATE CASCADE,
		ity AS ENUM ('low', 'moderate', 'high');	status status NOT NULL, decision date DATE.
		., ., ., ., ., ., ., ., ., ., ., ., ., .	PRIMARY KEY (resident_id, tree_request_id)
);
		SERIAL PRIMARY KEY NOT NULL,	Abstract table to hold scheduled_events CREATE TABLE scheduled_events
CREATE TABLE residents		VARCHAR(180) UNIQUE,	c
		VARCHAR(100) UNIQUE NOT NULL,	event_id SERIAL PRIMARY KEY NOT NULL, tree_request_id INTEGER REFERENCES tree_requests (id) ON DELETE CASCADE ON UPDATE NO ACTION NOT NULL,
	height_range width_range	int4range, int4range,	event_timestamp TIMESTAMP NOT NULL, cancelled BOOLEAN,
	minimum_planting_bed_width		notes TEXT
last_name VARCHAR(50) NOT NULL,);
		BOOLEAN,	CREATE TABLE scheduled_plantings
		tolerance,	inherits all from scheduled_events
street VARCHAR(50),		rate,	PRIMARY KEY (event_id)) IMMERITS (scheduled_events);
zip_code CHAR(5),		foliage,) Immentio (summuteu_events),
	debris root_damage_potential	VARCHAR(58), root_damage,	CREATE TABLE scheduled.visits
neighborhood VARCHAR(100) REFERENCES neighborhoods (name) ON DELETE NO ACTION ON UPDATE CASCADE NOT NULL	nursery_availability	nursery_availability,	(organization_member_id INTEGER REFERENCES organization_members (resident_id) ON DELETE CASCADE ON UPDATE CASCADE NOT NULL,
	visual_attraction	VARCHAR(50)[],	PRIMARY KEY (event_id)
		BOOLEAN,) IMMERITS (scheduled_events);
CREATE TABLE organization_members	pzbay	BOOLEAN,	CREATE TABLE visit_events
		BOOLEAN,	(scheduled_visit_id INTEGER PRIMARY MEY REFERENCES scheduled_visits (event_id) ON DELETE CASCADE ON UPDATE CASCADE.
resident_id INTEGER PRIMARY KEY REFERENCES residents (id) ON DELETE CASCADE ON UPDATE CASCADE NOT NULL,		BOOLEAN,	observations TEXT, photo_Library_Link VARCHUR(100),
		INTEGER CHECK (inventory >= 0)	additional_visit_required BOOLEAN
	CREATE TABLE tree_requests		
			Get the status of a tree https://neon.tech/postgresql/postgresql-plpgsql/postgresql-create-function
CREATE TABLE volunteer_applications		AL PRIMARY KEY NOT NULL,	CREATE OR REPLACE FUNCTION get_tree_request_status(p_tree_request_id INTEGER)
		SER REFERENCES residents (id) ON DELETE NO ACTION ON UPDATE CASCADE NOT NULL,	RETURNS TEXT
resident_id INTEGER PRIMARY KEY REFERENCES residents (id) ON DELETE CASCADE ON UPDATE CASCADE NOT NULL,	submission_timestamp TIMES	STAMP NOT NULL, SER REFERENCES trees (id) ON DELETE CASCADE ON UPDATE CASCADE NOT NULL,	\$\$ \$\$
	tree_id INTEG site_description TEXT,		DECLARE v_status TEXT;
	approved BOOLE		W_STRIUS TEXT;
			SELECT
););	and the particular of the second seco	https://www.w3schools.com/sql/sql_case.asp CASE
CREATE TABLE planting_events			WHEN pe.successful IS TRUE THEN 'completed' WHEN ve.additional_visit_required IS FALSE THEN 'waiting for planting'
		ings (event_id) ON DELETE CASCADE ON UPDATE CASCADE,	WHEN p.status = 'approved' THEN 'waiting for visit'
scheduled_planting_id INTE observations TEXT	esek Pkinakt ket kepekenses scheduled_plant: T,	ings (event_10) ON DELETE CASCADE ON DPDATE CASCADE,	WHEN tr.approved IS TRUE THEN 'needs permit' WHEN tr.approved IS FALSE THEN 'denied'
<pre>before_photos_library_link VARG efter_photos_library_link VARG</pre>			WHEN Tr.approved is raise then 'denied' ELSE 'pending approval'
	LEAN NOT NULL		END
):			INTO v_status FROM tree_requests tr
junction tables			LEFT JOIN pernits p
CREATE TABLE Organization_members_1	lead scheduled plantings		1<>0.nc ON tr.id = p.tree_request_id LEFT JOIN scheduled_visits sv
			<pre>ON tr.id = sv.tree_request_id</pre>
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PRIMARY KEY (organization_membe			LEFT JOIN scheduled_plantings sp
²⁴			<pre>0N tr.id = sp.tree_request_id LEFT JOIN planting_events pe</pre>
CREATE TABLE scheduled_plantings_ha			<pre>ON sp.event_id = pe.scheduled_planting_id</pre>
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):			\$\$ LANGUAGE plpgzql;
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volunteer_id INTEGER REFER			
PRIMARY KEY (planting_event_id,			
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https://neon.tech/postgresql/pos	stgresgl-plpgsgl/postgresgl-create-function		
CREATE OR REPLACE FUNCTION GET_Ence HETUNG TEXT	e_request_status(p_tree_request_id INTEGER)		
AS			

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(name 'Adams Point'), (name 'Allendale'),	(name 'Adams Point'), (name 'Allendale'),	(name 'Lower Bottoms'), (name 'Lower Dimond'),	(name 'Longfellow'), (name 'Lower Bottoms'), (name 'Lower <u>Dimond</u> '), (name 'Lower <u>Rockridge</u> '),	[Forme 'Bookland').			Character description of the control of the control problems, a second theory, and control of the control of th	Adds thoses deman, no. 4000, No. 4100 (Targier), Top PH. Steel, No. 4000 (Marg. R. V.
(name 'Arroyo Viejo'), (name 'Bartlett'), (name 'Bella Vista').	(name 'Arroyo Viejo'), (name 'Bartlett'), (nome 'Bella Vista').	(name 'Lower Rackridge'), (name 'Lynn'),	(name 'Lynn'),	(Tourne Tournisater') 2 205001 INTO residents (first_name, last_name, email, passes				od sint Street, Thomas Madd, Thomas Madd, Temphonoc (Lengtallar)
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