

Diagram Documentation

Database Documentation: 24.09.01_-_01.database_schema_documentation.pdf

Database Figure: 24.09.01_-_01.database_schema_img.png

location-side

potentially use an API for validation?

<https://www.usps.com/business/web-tools-apis/address-information-api.htm>

<https://www.smarty.com/articles/using-usps-apis-in-python>

<https://www.loqate.com/>

users

Field	Description	Type	Default	Other
id	bigserial next, text next	bigserial		PK
first_name		varchar(35)		
last_name		varchar(35)		
email	-- https://www.rfc-editor.org/errata/eid1690 ; publicly viewable if is_lister	varchar(320)		
phone	client-side: nullable only if "is_lister = False"	varchar(13)		NULLABLE
encrypted_password	Unknown datatype	text		
role	security idea: the backend matches user credentials to choose to send the resource; and checks again if an edit is attempted	smallint		FK, NULLABLE
description	1000 character description	varchar(1000)		
social_links	JSON type for social media & others	json		NULLABLE
privacy_settings	because there isn't any reason for this to be searchable	json		NULLABLE
custom_css	stretch, maybe a custom background and theme	json		NULLABLE
address_line_1	client-side: nullable only if role does not correspond to rescueagency/member of	text		NULLABLE
address_line_2	client-side: nullable only if role does not correspond to rescueagency/member of	text		NULLABLE
address_city		text		
address_state		text		
address_line_zip		varchar(20)		NULLABLE
address_country	Canucks have alpha characters in their Zip Code: https://kb.bullseyelocations.com/article/93-postal-code-formats automatically parse out hyphens	text		

role_table

Index all large city users & pet adoption organizations
users-role JOIN

Field	Description	Type	Default	Other
user_id		bigint		FK
role_id		smallint		FK

role

Field	Description	Type	Default	Other
id		smallserial		PK
role_name		varchar(16)		
permissions	admin: mod powers + can change roles moderator: can atler entire db moderator_a: can forward changes to moderator less-priviledged users: rescueagency: can alter their own db rescuemember: see above user	json		

pet_search_table

why this exists: make it so that this is sorted by agency_user_id every

Field	Description	Type	Default	Other
pointer	purpose is to have another table that keeps track of active pets so that I can index an organization's pets like an array? bigserial next, text next	serial		PK
agency_user_id	FK to users.id	int		FK
pet_id	FK to pets.id	int		FK

pets

Field	Description	Type	Default	Other
id	generate a random one to be publicly viewable	bigint		PK
pet_name	lots of attributes:	varchar(32)		
description		varchar(1500)		NULLABLE
photo_uploaded	do processing to rename the image to be db friendly	varchar(???)		
publish_time	GMT	timestamp		

Field	Description	Type	Default	Other
gender	T (1) for male, F (0) for female	boolean		
sterilized	spayed/neutered	boolean		
estimated_age	<0 estimated, >0 approximate known given the precision provided	smallint		
age_certainty	T (1) for estimate, F (0) for approximate (default); inject tilde if T	boolean		
age_units	out of init project scope: T (1) for months, F (0) for years (default)	boolean		
weight	change this out if the project is ever updated with "internal_weight" and have this field only appear on the form	smallint		
internal_weight	out of init project scope: b/c this is result of unit conversion that can be set by user pref. <0 implies estimated, >0 implies weighed and good approximate inserted	float4		
weight_units	out of init project scope: T (1) for kg, F (0) for lb (default)	boolean		
pet_classification	"pet_type" publicly: cat, dog, bird, fish, anything longer than 10 char?	smallint		FK
breed_primary	cat: felidae family, dog: canidae family, birds: aves class, boned fish: actinopterygii, axolotl/frogs: amphibia 1 to 1/M: DEFAULT "UNKNOWN BREED" (id=1)	bigint		FK
breed_secondary	0/1 to 0/M; FORM: somehow check that primary_breed isn't the same value, also disable this if breed_primary = 1	bigint		FK, NULLABLE
breed_tertiary	default False (meaning more than 2 breeds mixed)	boolean		
coat_hair	COAT DESCRIPTION 0 = straight, 1 = mixed, 2 = curly; 4 = bald; 100+ for coat_patterns in case talking about the hair curvature becomes popular	smallint		FK
coat_pattern	out of init project scope?: but implement this similar to coat_color	smallint		FK

Field	Description	Type	Default	Other
primary_light_shade		smallint		FK, NULLABLE
primary_dark_shade	basically select a certain n	smallint		FK, NULLABLE
trained	this way it is easier to implement the desired search efficiency discussed with Christos on T, 2022-07-05: avoiding string searches in the db bonus: allows user to effectively search by "contrast" ADOPTION DISCLOSURE INFO (correlated to adoption difficulty) implies whether or not experience with animals are required; default False	boolean		
medical_records_uptodate	Default: False (unknown = False, but this is changable)	boolean		
special_needs	Null = None; say it in 128 characters or insert a link	varchar(128)		NULLABLE
other_pet_attributes		json		NULLABLE
declawed	category only appears if searching cat/dog during search, default False	boolean		NULLABLE
environment_children		boolean		NULLABLE
environment_dogs		boolean		NULLABLE
environment_cats		boolean		NULLABLE

pet_classification

Field	Description	Type	Default	Other
id	0-100 {common_mammals: dog, cat (0-2), ...}; bird (Aves); reptile (Squamata, Testudines, Crocodilia for FL man, ...);	smallint		PK
pet_name	fish (Actinopterygii & Chondrichthyes); amphibia (axolotl, frog) plants (lol)	varchar(16)		

color_table

Field	Description	Type	Default	Other
id	light colors: 0-99; dark colors: 100 - 199	smallint		PK
color_name		varchar(8)		
color_hex	colors availalbe	varchar(6)		

coat_details

Field	Description	Type	Default	Other
id		smallint		PK
coat_detail_name	0-10 straight, mixed, curly, bald? defaults to straight; this should be linked to breed but idk maybe conditions change the pet's hair style 100+: coat patterns? first 16 charas no more.	varchar(16)		

breed_search_table

look-up table for quick matching (ty Christos :). CASCADE this

Field	Description	Type	Default	Other
id	1 = Unknown, ...	bigserial		PK
breed_name	first 32 characters.	varchar(32)		
breed_matches	init: empty array; but o.w. contains	array		