

SAILO DB										
		version	1.00	1/22/14						
#	Object	Type	Required?	Min	Max	Restrictions	Can be blank?	Notes		
1	Boat									
	boat name	string		1	256					
	builder (manufacturer)	string		1	256					
	model	string		1	256					
	build year	date		1850	current year					
	engine manufacturer	string		1	256					
	engine hp (for each engine)	int		0	20000					
	engine description	string		1	512					
	engine year	date		1850	current year					
	top speed	int		0	200	mph				
	length in feet	int		3	300	feet				
	height in feet	int		3	300	feet				
	weight in lb	int		0	100000	lb		limits TBD		
	guest capacity	int		0	300			max number of people that are allowed to sail on board		
	number of bedrooms	int		0	30					
	number of bathrooms	int		0	30					
	color	string		1	256					
	type	set				list: sail, motor, other				
	min_height	int		1	250	feet		when the mast of cabin is lowered useful when going under bridges		
	draught	int						limits TBD		
	autonomy time	int		0	unlimited	hours		limits TBD		
	autonomy distance	int		0	unlimited	miles		limits TBD		
	amenities	set				of strings		complete features list TBD		
	shower	set				Y/N				
	toilets	set				Y/N				
	drinking water	set				Y/N				
	fridge	set				Y/N				
	tv	set				Y/N				
	internet	set				Y/N				
	navigation systems	set				Y/N				
	(MORE TO BE ADDED HERE)									
	registered in what state	set				US states		might have to add international locations later		
	location on map	set								
	latitude	double						limits TBD		
	longitude	double						limits TBD		
	marina location	string		1	256					
	pictures	table link				link to pic table		maximum 5		
	owner id	int						foreign key		
	description	string		1	4096			max size of text still TBD		
	restrictions	set				list of restrictions				
	smoking	set				Y/N				
	shoes type (e.g. white soles only?)	string		1	256					
	kids	set				Y/N				
	number of guests	int		1	200			TBD		
	captains									
	required captain?	set				set of captain ids		TBD (probably best if it's a list of captain ids)		
	preferred captains?	set				set of captain ids				
	blacklist captains?	set				set of captain ids				
	reviews	table link				list of reviews		link to "reviews" table		
	calendar	table link				date availability and price		link to "calendar" table		
	insurance_id	table link		0	inf	if id=0 => uninsured, else link to table		link to "insurance" table		
	response stats:									
	average rate (percentage)	double		0	100			no need to precalculate		
	average time (percentage)	double		0	100					
	average time (value)	double		0	48	h				
2	Captain									
	user information	int						same as a regular user (get from user_id) + extra info bellow		
	description	string		1	4096					
	license type	set						(can he take people out?)		
	license size restrictions	string		1	4096			(e.g. can drive boats up to 50ft)		
	license other restrictions	string		1	4096			(e.g. can't drive at night)		
	map location									
	latitude	double						limits TBD		
	longitude	double						limits TBD		
	radius of availability	double				mi		can work on all boats included in the area with center at location and this radius		
	reviews									
	by user	int				user id				
	average rating	double		0	5					
	calendar									
	availability	datetime								
	price for each available day	double								
	boat requests response stats:									
	total requests	int								
	total responses	int								
	total time to respond	int				h				
	average rate (percentage)	double				percentage				
	average time (percentage)	double				percentage				
	boat info response stats							(info about the boat or other info)		
	total requests	int								
	total responses	int								
	total time to respond	int				h				
	average rate (percentage)	double				percentage				
	average time (percentage)	double				percentage				
3	User									
	name									
	first	string		1	256					
	middle (opt)	string		1	256					
	last	string		1	256					
	corporate name	string		1	256					
	birthdate (opt)	date								
	address									
	address1 (# + street)	string		1	256					
	address2 (apt # or other)	string		1	256					
	state	string		1	256	pick from existing states				
	city	string		1	256					
	zip code	int		min zip	max zip			we need to get the actual zip limits		
	country	string		1	256	pick from existing countries				
	contact info									
	phone numbers									
	mobile	int								

	manufacturer		string							
	model		string							
	engine									
	year		int							
	hp (each)		int							
	manufacturer		string							
	top speed		int							
	material		set					list: fg, wood, aluminum, steel, other		
	engines		string					list: single, twin, triple		
	fuel		string					list: gas, diesel		
	built in systems		set					list: co2, halon, none		
	navigation systems		set					list: vhf, radar, auto pilot, depth finder, gps, ssb, weather fax, plotter		
	coverage requested									
	navigation limits								TBD	
	mooring location		string							
	intended use		set					list: personal, charter		
	charter description:									
	number of guests		int							
	crew		int							
	number of charters		int							
	other details		string							
	hull id or doc#		string							
	registered		set				Y/N			
	purchase price		int							
	date of purchase		date							
	insurance value		int							
	liability limit		int							
	dinghy/tender								TBD	
	paid crew (f/t & p/t)								TBD	
	date last survey		date							
	surveyor		string							
	market value		int							
	replacement value		int							
	operator information									
	occupation		string							
	previous boats owned/operated		int					number of boats?		
	boating courses		set					list: uscg, usps, asa, usgs license, other		
	any losses ever???		int				Y/N			
	year, value, description		string							
	client age		int							
	years ownership experience		int							
	previous insurance co.		string							
	expiration date		datetime							
	expiraition premium		int							
	loss payee		int							
	additional insured		int							
	comments		string							
7 Insurance										
	id		int							to link to an existing boat or captain
	type		string					boat or captain		
	company		set					link to existing table		
	policy #		set					link to existing table		
	charter		string				Y/N			to know if this is a charter insurance
	policy type		string				list: time, outings, other			to know if insurance is per number of outings
	date from		set							(communication with customers)
	date to		int					id (link to existing table)		
	outings left		int							
	address		table link					link to existing table		link to "address" table
	damage amount		int							
	liability amount		int							
	uninsured other amount		int							if the other boat is uninsured
	restrictions		string							e.g. capacity, night driving
8 Communication:										
	owner/captain		int					id (link to existing table)		
	my boats		set					link to existing table		
	my transactions		set					link to existing table		
	my insurances		set					link to existing table		
	my messages		set							(communication with customers)
	user		int					id (link to existing table)		
	my transactions		set					link to existing table		
	my messages		set					link to existing table		(communication with owners/captains)
9 Pictures										
	id		int							to link to an existing user, boat, or captain (could also be admin) might need a relation table
	type		string					list: user, boat, marina, other		
	full		string	1	256					
	full size 1		string	1	256					
	full size 2		string	1	256					
	thumbnails size 1		string	1	256					
	thumbnails size 2		string	1	256					
	thumbnails size 3		string	1	256					
	caption		string							
	description		string							
	location		set							
	latitude		double							
	longitude		double							
10 Reviews										
	id		int							to link to an existing user, boat, or captain (could also be admin) might need a relation table
	type		string					list: boat, owner, captain, marina, other		
	rating		double	0	5					
	text		string	1	4096					text of the actual review
	title		string	1	256					title of the review
11 Calendar										
	id		int							to link to an existing user, boat, or captain (could also be admin) might need a relation table
	type		string					list: boat, captain, marina, admin, other		
	date available to		date							
	date available to		date							
	price		int							