AvokTech API Documentation

V 0.1.7

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Schemas

Account:

**id**: String, *unique for each user*

**firstName**: String,

**lastName**: String,

**email**: String, *functions as a username (unique)*

**password**: String, *the value is hashed for security*

**phone**: String,

**photo**: Object,

**paid**: boolean,

**billingAddress**: { *Address class*

**street**: String,

**city**: String,

**state**: String,

**zipcode**: String

},

**creditCard**: String, *TBD*

**lots**: Map<String, String>, *maps a lot id to the corresponding role, including:  
owner, manager, patrol, etc.*

**roles**: Set<String> *set of systems admin roles, including:  
super, analytics, onboarding, etc.*

Lot:

**id**: String, *unique for each lot*

**name**: String,

**type**: String, `*residential` vs. `parking lot`*

**address**: { *Address class*

**street**: String,

**city**: String,

**state**: String,

**zipcode**: String

},

**location**: double[], *(lng, lat) pair*

**photo**: Object,

**price**: Map<String, double>, *maps the price type (hourly, daily, etc.) to the value of the price*

**priceRatio**: double, *scale multiplier of price (default* 1.0*)*

**capacity**: int,

**occupied**: int,

**available**: boolean, *if the lot is available (does not include reservable spaces)*

**reservable**: boolean,

**reserveMax**: int, *the maximum number of reservable spaces*

**calendar**: Set<Long> *a set of the weekly reservable times*

Reservation:

**id**: String, *unique for each reservation*

**accountId**: String, *the account associated with the reservation*

**firstName**: String,

**lastName**: String,

**lotId**: String, *the lot associated with the reservation*

**space**: int, *the space in the lot*

**start**: long, *start time*

**end**: long, *end time*

**duration**: int, *duration of reservation (in hours)*

**status**: String *the status of the reservation, including:  
active, cancelled, deleted, etc.*

LotHistory:

**lotId**: String, *the id of the associated lot*

**history**: List<{ *list of LotHistoryPoint class*

**time**: long,

**occupied**: int

}>,

SearchHistory:

**accountId**: String, *the id of the associated account*

**locations**: List<double[]> *list of locations of searches*

Endpoints

*Required fields are listed under the endpoint.*

*Optional fields are in italics.*

*All `date` fields are represented in milliseconds.*

**GET**

Account:

/listAccounts *return all accounts*

/accountById *returns account with corresponding id*

accountId

/accountByEmail *returns account with corresponding email*

email

/getLots *returns all of the lots of the user*

accountId

Lot:

/listLots *returns all lots*

/lotById *returns lot with corresponding id*

lotId

/searchNear *returns lots within 1 mile of the location*

latitude

longitude

/getMembers *returns the account ids of members of the lot*

lotId

Reservation:

/listReservations *returns all reservations*

/reservationById *returns reservation with corresponding id*

reservationId

/reservationsByAccountId *returns reservations for corresponding account*

accountId

/reservationsByLotId *returns reservations for corresponding lot*

lotId

/activeReservationsByAccountId *returns active reservations for corresponding*

accountId *account*

/activeReservationsByLotId *returns active reservations for corresponding lot*

lotId

LotHistory:

/listLotHistory *returns all lot history*

/lotHistory *returns lot history for corresponding lot*

lotId

SearchHistory:

/listSearchHistory *returns all search history*

/searchHistory *returns search history for corresponding account*

accountId

**POST**

Account:

/login *handles login (returns false if incorrect*

email *password)*

password

/signup *handles signup and creates a new account*

firstName

lastName

email

password

/addRole *adds a systems admin role to the account*

accountId

role

/addLot *adds a lot and corresponding role to the account*

accountId

lotId

role

Lot:

/newLot *creates a new lot (returns updated account)*

accountId

name

type

address

latitude

longitude

capacity

reserveMax

calendar *a list of the times for the calendar*

/entered *increases the occupancy of the lot by* 1

lotId

/exited *decreases the occupancy of the lot by* 1

lotId

/changeReserveMax *changes the number of reservable spots*

lotId

reserveMax

/setCalendar *adds a member to the lot*

lotId

calendar *a list of the times for the calendar*

Reservation:

/reserve *creates a new reservation*

accountId

lotId

start *start time of reservation*

duration *duration of reservation (in hours)*

SearchHistory:

/addSearchHistory *adds a new search history point*

*accountId this field is optional*

latitude

longitude

**DELETE**

Account:

/deleteAccount *deletes account with corresponding id*

accountId

Lot:

/deleteLot *deletes lot with corresponding id*

lotId

LotHistory:

/deleteAllLotHistory *deletes all lot history*

/deleteLotHistory *deletes lot history for corresponding lot*

lotId

SearchHistory:

/deleteAllSearchHistory *deletes all search history*

/deleteSearchHistory *deletes search history for corresponding account*

accountId