

AvokTech API Documentation

V 0.1.7

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Schemas

Account:

id: String,	<i>unique for each user</i>
firstName: String,	
lastName: String,	
email: String,	<i>functions as a username (unique)</i>
password: String,	<i>the value is hashed for security</i>
phone: String,	
photo: Object,	
reservations: List {	<u>Reservation class</u>
lotId: String,	<i>referencing the lot id of the reservation</i>
space: int,	<i>referencing the space of the lot</i>
start: long,	<i>start time of reservation</i>
duration: int,	<i>duration (in hours) of reservation</i>
},	
paid: boolean	
billingAddress: {	<u>Address class</u>
street: String,	
city: String,	
state: String,	
zipcode: String,	
},	
creditCard: String,	<i>specifics TBD</i>
lots: Map<String, String>,	<i>maps a lot id to the corresponding role,</i>
	<i>including:</i>
	<i>owner, manager, patrol, etc.</i>
roles: List<String>,	<i>list of systems admin roles, including:</i>
	<i>super, analytics, onboarding, etc.</i>

Lot:

id: String,	<i>unique for each lot</i>
name: String,	
type: String,	<i>`residential` vs. `parking lot`</i>
address: {	<u>Address class</u>
street: String,	
city: String,	
state: String,	

zipcode: String,	
},	
location: double[],	<i>(lng, lat) pair</i>
photo: Object,	
rate: Map<String, double>,	<i>maps the rate type (hourly, daily, etc.) to the value of the rate</i>
rateRatio: double,	<i>scale multiplier of rate (default 1.0)</i>
capacity: int,	
occupied: int,	
available: boolean,	<i>if the lot is available (does not include reservable spaces)</i>
reservable: boolean,	
reserveMax: int,	<i>the maximum number of reservable spaces</i>
spaces: List {	<i><u>Space class</u></i>
reservable: boolean,	<i>if the space is reservable</i>
photo: Object,	
calendar:	<i>maps the time (by hour) to the associated account</i>
Map<Long, String>,	<i>id reserved at that time (null if available)</i>
},	
members: List<String>,	<i>list of account ids with access to the lot</i>
lotHistoryId: String,	<i>id pointing to the lot's data history</i>

LotHistory:

id: String,	<i>unique for each lot</i>
history:	<i>list of pairs of time and occupancy</i>
List<(Long, Integer)>,	

RawHistory:

accountId: String,	<i>account id associated with reservation</i>
lotId: String,	<i>lot id associated with reservation</i>
space: int,	<i>space of lot</i>
date: int,	<i>start time of reservation</i>
duration: int,	<i>duration (in hours) of reservation</i>
search: String,	<i>search query associated with reservation</i>
events: List<String>,	<i>list of events near reservation location</i>

Endpoints

Required fields are listed under the endpoint.

All `date` fields are represented in milliseconds.

GET

Account

<code>/listAccounts</code>	<i>return all accounts</i>
<code>/accountById</code> <code>accountId</code>	<i>returns account with corresponding id</i>
<code>/accountByEmail</code> <code>email</code>	<i>returns account with corresponding email</i>

Lots

<code>/listLots</code>	<i>returns all lots</i>
<code>/lotById</code> <code>id</code>	<i>returns lot with corresponding id</i>
<code>/searchNear</code> <code>latitude</code> <code>longitude</code>	<i>returns lots within 1 mile of the location</i>

LotHistory

<code>/listLotHistory</code>	<i>returns all lot history</i>
<code>/lotHistory</code> <code>lotHistoryId</code>	<i>returns lot history with corresponding id</i>

RawHistory

<code>/listRawHistory</code>	<i>returns all raw history</i>
<code>/rawHistoryByAccount</code> <code>accountId</code>	<i>returns raw history for corresponding account</i>
<code>/rawHistoryByLot</code> <code>lotId</code>	<i>returns raw history for corresponding lot</i>
<code>/rawHistoryByDate</code> <code>date</code>	<i>returns raw history for corresponding date</i>

POST

Account

<code>/newAccount</code> <code>firstName</code> <code>lastName</code> <code>email</code> <code>password</code>	<i>creates a new account</i>
<code>/addRole</code> <code>accountId</code> <code>role</code>	<i>adds a systems admin role to the account</i>

Lots

/newLot	<i>creates a new lot</i>
accountId	
name	
type	
address	
latitude	
longitude	
capacity	
reserveMax	
startTimes	<i>a list of the start times for each time block</i>
durations	<i>a list of durations for each time block</i>
/entered	<i>increases the occupancy of the lot by 1</i>
lotId	
/exited	<i>decreases the occupancy of the lot by 1</i>
lotId	
/changeReserveMax	<i>changes the number of reservable spots</i>
lotId	
reserveMax	
/addMember	<i>adds a member to the lot</i>
lotId	
email	
role	
/setCalendar	<i>sets the reservation calendar of the lot</i>
lotId	
startTimes	<i>a list of the start times for each time block</i>
durations	<i>a list of durations for each time block</i>
/reserve	<i>adds a reservation for the lot</i>
lotId	
accountId	
startTimes	<i>a list of the start times for each time block</i>
durations	<i>a list of durations for each time block</i>
search	<i>the search query of the reservation</i>
/clearReservations	<i>clears all reservations of the lot</i>
lotId	