

AvokTech API Documentation

V 0.1.7

6/23/2015

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, *specifics TBD*

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

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

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 {	<u><i>Space class</i></u>
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>
<code>/getLots</code> <code>accountId</code>	<i>returns all of the lots of the user</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>	<i>adds a systems admin role to the account</i>

accountId
role

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	

DELETE

Account

/deleteAccount	<i>deletes account with corresponding id</i>
accountId	

Lots

`/deleteLot`
`lotId` *deletes lot with corresponding id*

LotHistory

`/deleteAllLotHistory` *deletes all lot history*
`/deleteLotHistory`
`lotHistoryId` *deletes lot history with corresponding id*

RawHistory

`/deleteAllRawHistory` *deletes all raw history*
`/deleteRawHistory`
`accountId` *deletes raw history for corresponding account*