

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,	
paid: boolean,	
billingAddress: {	<u>Address class</u>
street: String,	
city: String,	
state: String,	
zipcode: String	
},	
creditCard: String,	<i>TBD</i>
lots: Map<String, String>,	<i>maps a lot id to the corresponding role, including:</i>
	<i>owner, manager, patrol, etc.</i>
roles: Set<String>	<i>set 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,	
price: Map<String, double>,	<i>maps the price type (hourly, daily, etc.) to the value of the price</i>
priceRatio: double,	<i>scale multiplier of price (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>
calendar: Set<Long>	<i>a set of the weekly reservable times</i>

Reservation:

id: String,	<i>unique for each reservation</i>
accountId: String,	<i>the account associated with the reservation</i>
firstName: String,	
lastName: String,	
lotId: String,	<i>the lot associated with the reservation</i>
space: int,	<i>the space in the lot</i>
start: long,	<i>start time</i>
end: long,	<i>end time</i>
duration: int,	<i>duration of reservation (in hours)</i>
status: String	<i>the status of the reservation, including: active, cancelled, deleted, etc.</i>

LotHistory:

lotId: String,	<i>the id of the associated lot</i>
history: List<{	<i>list of <u>LotHistoryPoint</u> class</i>
time: long,	
occupied: int	
>},	

SearchHistory:

accountId: String,	<i>the id of the associated account</i>
locations: List<double[]>	<i>list of locations of searches</i>

Endpoints

Required fields are listed under the endpoint.

Optional fields are in italics.

All `date` fields are represented in milliseconds.

GET

Account:

<code>/listAccounts</code>	<i>return all accounts</i>
<code>/accountById</code> <i>accountId</i>	<i>returns account with corresponding id</i>
<code>/accountByEmail</code> <i>email</i>	<i>returns account with corresponding email</i>
<code>/getLots</code> <i>accountId</i>	<i>returns all of the lots of the user</i>

Lot:

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

Reservation:

<code>/listReservations</code>	<i>returns all reservations</i>
<code>/reservationById</code> <i>reservationId</i>	<i>returns reservation with corresponding id</i>
<code>/reservationsByAccountId</code> <i>accountId</i>	<i>returns reservations for corresponding account</i>
<code>/reservationsByLotId</code> <i>lotId</i>	<i>returns reservations for corresponding lot</i>
<code>/activeReservationsByAccountId</code> <i>accountId</i>	<i>returns active reservations for corresponding account</i>
<code>/activeReservationsByLotId</code> <i>lotId</i>	<i>returns active reservations for corresponding lot</i>

LotHistory:

<code>/listLotHistory</code>	<i>returns all lot history</i>
<code>/lotHistory</code> <i>lotId</i>	<i>returns lot history for corresponding lot</i>

SearchHistory:

<code>/listSearchHistory</code>	<i>returns all search history</i>
---------------------------------	-----------------------------------

/searchHistory
accountId

returns search history for corresponding account

POST

Account:

/login
email
password

handles login (returns false if incorrect password)

/signup
firstName
lastName
email
password

handles signup and creates a new account

/addRole
accountId
role

adds a systems admin role to the account

/addLot
accountId
lotId
role

adds a lot and corresponding role to the account

Lot:

/newLot
accountId
name
type
address
latitude
longitude
capacity
reserveMax
calendar

creates a new lot (returns updated account)

/entered
lotId

increases the occupancy of the lot by 1

/exited
lotId

decreases the occupancy of the lot by 1

/changeReserveMax
lotId
reserveMax

changes the number of reservable spots

/setCalendar
lotId
calendar

adds a member to the lot

a list of the times for the calendar

Reservation:

/reserve

creates a new reservation

accountId	
lotId	
startTimes	<i>start times of reservations</i>
durations	<i>durations of reservations (in hours)</i>

SearchHistory:

/addSearchHistory	<i>adds a new search history point</i>
<i>accountId</i>	<i>this field is optional</i>
latitude	
longitude	

DELETE

Account:

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

Lot:

/deleteLot	<i>deletes lot with corresponding id</i>
lotId	

LotHistory:

/deleteAllLotHistory	<i>deletes all lot history</i>
/deleteLotHistory	<i>deletes lot history for corresponding lot</i>
lotId	

SearchHistory:

/deleteAllSearchHistory	<i>deletes all search history</i>
/deleteSearchHistory	<i>deletes search history for corresponding account</i>
accountId	