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,

**reservations**: List { *Reservation class*

**lotId**: String, *referencing the lot id of the reservation*

**space**: int, *referencing the space of the lot*

**start**: long, *start time of reservation*

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

},

**paid**: boolean

**billingAddress**: { *Address class*

**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, *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[], *(lat, lng) pair*

**photo**: Object,

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

**rateRatio**: double, *scale multiplier of rate (default* 1.0*)*

**capacity**: int,

**occupied**: int,

**reservable**: boolean,

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

**spaces**: List { *Space class*

**reservable**: boolean, *if the space is reservable*

**photo**: Object,

**calendar**: *maps the time (by hour) to the associated account*

Map<Long, String>, *id reserved at that time (*null *if available)*

},

**members**: List<String>, *list of account ids with access to the lot*

**lotHistoryId**: String, *id pointing to the lot’s data history*

LotHistory:

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

**history**: *list of pairs of time and occupancy*

List<(Long, Integer)>,

RawHistory:

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

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

**space**: int, *space of lot*

**date**: int, *start time of reservation*

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

**search**: String, *search query associated with reservation*

**events**: List<String>, *list of events near reservation location*

Endpoints

*Required fields are listed under the endpoint.*

*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

Lots

/listLots *returns all lots*

/lotById *returns lot with corresponding id*

id

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

latitude

longitude

LotHistory

/listLotHistory *returns all lot history*

/lotHistory *returns lot history with corresponding id*

lotHistoryId

RawHistory

/listRawHistory *returns all raw history*

/rawHistoryByAccount *returns raw history for corresponding account*

accountId

/rawHistoryByLot *returns raw history for corresponding lot*

lotId

/rawHistoryByDate *returns raw history for corresponding date*

date

**POST**

Account

/newAccount *creates a new account*

firstName

lastName

email

password

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

accountId

role

Lots

/newLot *creates a new lot*

accountId

name

type

address

latitude

longitude

rateType

price

capacity

reserveMax

/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

/addMember *adds a member to the lot*

lotId

email

role

/setCalendar *sets the reservation calendar of the lot*

lotId

startTimes *a list of the start times for each time block*

durations *a list of durations for each time block*

/reserve *adds a reservation for the lot*

lotId

accountId

startTimes *a list of the start times for each time block*

durations *a list of durations for each time block*

search *the search query of the reservation*

/clearReservations *clears all reservations of the lot*

lotId