```
AvokTech API Documentation
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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 time of reservation
     start: long,
     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.
                                 list of systems admin roles, including:
  roles: List<String>,
                                    super, analytics, onboarding, etc.
Lot:
                                 unique for each lot
  id: String,
  name: String,
                                 `residential` vs. `parking lot`
  type: String,
  address: {
                                 Address class
     street: String,
     city: String,
```

state: String,
zipcode: String,

},

location: double[], (lng, lat) pair photo: Object, rate: Map<String, double>, maps the rate type (hourly, daily, etc.) to the value of the rate scale multiplier of rate (default 1.0) rateRatio: double, capacity: int, occupied: int, reservable: boolean, the maximum number of reservable spaces reserveMax: int, spaces: List { Space class reservable: boolean, if the space is reservable photo: Object, calendar: maps the time (by hour) to the associated account id reserved at that time (null if available) Map<Long, String>, }, 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 list of pairs of time and occupancy history: List<(Long, Integer)>, RawHistory: account id associated with reservation accountId: String, lot id associated with reservation lotId: String, space: int, space of lot date: int, start time of reservation duration: int, duration (in hours) of reservation

search: String,

events: List<String>,

search query associated with reservation

list of events near reservation location

```
Endpoints
```

/addRole

role

accountId

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 returns all lots /listLots returns lot with corresponding id /lotById id returns lots within 1 mile of the location /searchNear 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

adds a systems admin role to the account

```
Lots
  /newLot
     accountId
```

name type

address latitude

longitude rateType

price

capacity

reserveMax

/entered lotId

/exited

lotId

/changeReserveMax

lotId

reserveMax

/addMember

lotId

email

role

/setCalendar

lotId

startTimes durations

/reserve

lotId

accountId startTimes

durations search

/clearReservations

lotId

creates a new lot

increases the occupancy of the lot by 1

decreases the occupancy of the lot by 1

changes the number of reservable spots

adds a member to the lot

sets the reservation calendar of the lot

a list of the start times for each time block

a list of durations for each time block

adds a reservation for the lot

a list of the start times for each time block

a list of durations for each time block

the search query of the reservation

clears all reservations of the lot