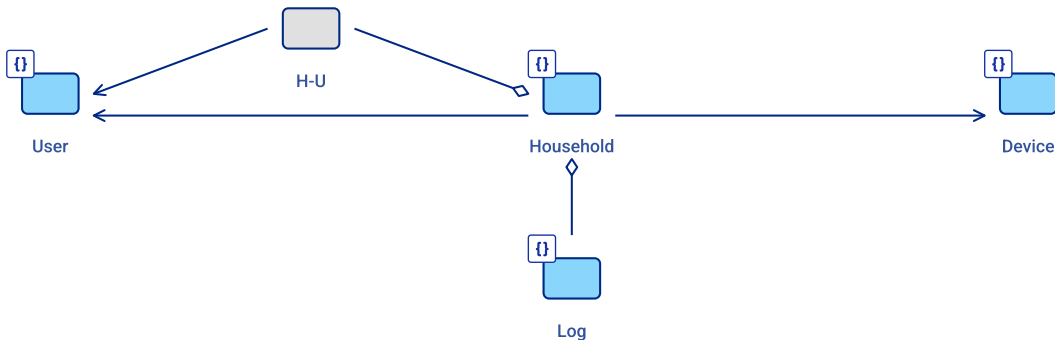




Schema Diagram



User

Schema

```
1  const schemaNameSchema = {
2    firstName: "Jane",
3    lastName: "Smith",
4    email: "jane.smith@example.com",
5    password: "$2a$10$N9qo8uL0ickgx2ZMRZoMy.Mrq4ZJXCZ1Q8qP3d2VlW3J1VzUqGqE2",
6    role: "user",
7    refreshToken: "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
```

Limit List

Name	Value	Description
maxNoi	1,000	Maximum number of

DAO Method List

Name	Description
create (user) -> user	creates a household member/admin
listHouseholds(userId) -> [household]	returns all households of the user

Device

Schema

```
1  const schemaNameSchema = {
2    name: "Living room alarm",
3    device_type: "camera",
4    active: true,
5    alarm_triggered: 0
6  }
```

Limit List

Name	Value	Description
maxNoi	1,000	Maximum number of

DAO Method List

Name	Description
setAlarmTriggeredOff(deviceId) -> device	sets alarm_triggered to false
setAlarmTriggeredOn(deviceId) -&door> device	sets alarm_triggered to true
setStateActive(deviceId) -> device	sets the active state of the alarm to true
setStateDeactive(deviceId) -> device	sets the active state of the alarm to false

Household

Schema

```
1  const schemaNameSchema = {
2    name: "Smith Family Home",
3    password: "ef92b778bafe771e89245b89ecbc08a44a4e166c06659911881f383d447",
4    owner: "507f191e810c19729de860ea",
5    members: [
6      "507f191e810c19729de860eb", "607f1f77bcf86cd799439012"
7    ],
8    devices: [
9      "607f1f77bcf86cd799439011"
10   ],
11   logs: [
12     { event: "user_joined", userId: "507f191e810c19729de860eb", timestamp: ... },
13     { event: "device_added", deviceId: "607f1f77bcf86cd799439011", timestamp: ... }
```

Limit List

Name	Value	Description
maxNoi	1,000	Maximum number of

DAO Method List

Name	Description
create (household) -> household	creates object in the schema
get (id) -> household	returns specific household based on
update (householdId, newName) ->	updates the name of the household
delete (id) -> void	deletes the household based on id
addDevice (householdId, deviceId) ->	adds a device to the household
removeDevice (householdId, deviceId) ->	removes a device from the household
addUser(householdId, userId) ->	adds a user to the household
removeUser(householdId, userId) ->	removes a user from the household

Log

Schema

```
1  const schemaNameSchema = {
2    log_type: "security",
3    message: "Alarm triggered by back door sensor",
4    device_id: "607f1f77bcf86cd799439013",
5    user_id: "507f191e810c19729de860ea",
6    time: "2025-03-31T12:34:56.789Z"
7  };
```

Limit List

Name	Value	Description
maxNoi	1,000	Maximum number of

DAO Method List

Name	Description
create (log) -> log	creates new alarm log
list () -> {itemList:[object], pageInfo:{}}	returns list of all logs