Hakhel

Functional Specs v 0.1

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# Introduction

The Hakhel system automates sending notifications to synagogue members about upcoming yahrzeit dates of their deceased family members and offers possible venues to honor the yahrzeit.

Hakhel can accommodate any number of synagogues with their communities and rabbis. Each synagogue has its own separate community and venues, in a multi-tenancy model.

Hakhel has the following components:

* A database with synagogues, community members, and deceased people of interest.
* A web app that provides:
  + Data entry and management of users, synagogues, deceased people, etc.
  + Management of yahrzeit reminders.
  + Automated background service that sends yahrzeit notifications via SMS, WhatsApp, or email on the week of the yahrzeit.
  + Venues for honoring the yahrzeit, clickable from the notification message.

The flow of events is as follows:

* A user with an admin privilege can populate the database with the details of synagogues, deceased people, contact people, and rules for sending yahrzeit reminders.
* The system schedules yahrzeit reminders based on the Hebrew dates of passing away, and places those in a queue.
* The background service runs daily, checks the queue and sends the notifications scheduled for that day.
* The system logs its activity and there is a UI to monitor what was sent, when and to whom, and whether there was a follow-up (cliking on the link).
* When a contact person receives a notification, he can click on the link and it will open a UI for selecting a venue.

# Database Management

## Overview

Hakhel has an SQL database with the following entities (tables):

* Deceased people – a person whose date of passing away triggers sending a yahrzeit reminder.
* Cemeteries – a cemetery is where a deceased person is buried. Necessary for some of the venues.
* Contact people – a person to receive a yahrzeit notification. A contact person can be related to one or more deceased people, and a deceased person can be related to one or more contact people.
* Users – users can login to the system and interact with it. Users can have roles, such as admin, that permit them to update and view data. Contact people are users, to enable them to update their own information and preferences.
* Accounts – these are the synagogues.
* Selections – a selection is a group of relations and a date of when to fire yahrzeit notifications to all of them. A selection is generated automatically by the system but can be customized/created manually by an admin. For example, if the system created a selection to send reminders to John, Mary and Jacob an admin can modify the selection prior to its execution and omit or add relations.

The following tables are “behind the scenes” and are maintained by the system:

* Relations – the relation between a contact person and a deceased person, and the relation type like “son” or “wife”. This is a join table.
* Relations\_selections – is a join table that supports grouping of relations into selections.
* Addresses – this table holds addresses of contact people, synagogues, cemeteries, etc.

The table names and attribute names below are in English, that’s how they’ll be referred in json. But in the UI they should to be in Hebrew.

## Address fields

(applies to all tables with address)

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Type** | **Comments** |
| line1 | string |  |
| line2 | string |  |
| city | string |  |
| state | string |  |
| country | string |  |
| postal\_code | string |  |

## Cemeteries

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Type** | **Comments** |
| name | string |  |
| description | string |  |
| address | address fields |  |

## Deceased people

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Type** | **Comments** |
| first\_name | string |  |
| last\_name | string |  |
| gender | string | זכר או נקבהselect from: |
| father\_first\_name | string | optional |
| mother\_first\_name | string | optional |
| hebrew\_year\_of\_death | string |  |
| hebrew\_month\_of\_death | string | selection (בעברית, כולל אדר א׳ ואדר ב׳) |
| hebrew\_day\_of\_death | string | selection (א׳ עד ל״א) |
| time\_of\_death | HH:MM | optional |
| location\_of\_death | string | optional |
| cemetery | string | selection from database |
| cemetery\_region | string | optional (גוש) |
| cemetery\_parcel | string | optional (חלקה) |

# **Examples of API usage**

# Login

<https://hakhel-c99c0466c9a2.herokuapp.com/api/v1/auth>

body:

{

"email": "admin@hakhel.com",

"password": "password"

}

receive:

{

"token": "jyt85g5vwK35qkPPZ5enBB5Y"

}

In all other transactions below, use

<https://hakhel-c99c0466c9a2.herokuapp.com/hke/api/v1/> as the {{url}}

and the token you received as the bearer token

# Create a new Cemetery

Post to: [{{url}}cemeteries](https://hakhel-c99c0466c9a2.herokuapp.com/hke/api/v1/cemeteries)

body:

{"cemetery":

{ "name": "בית קברות נהריה",

"description": "בית הקברות הצבאי בו קבורים חללי מלחמות ישראל שמגורם היה נהריה",

"line1": "רחוב ויצמן 33",

"line2": "",

"city": "נהריה",

"country": "ישראל",

"postal\_code": "23456"

}

}

receive:

{

"id": 42,

"name": "בית קברות נהריה",

"description": "בית הקברות הצבאי בו קבורים חללי מלחמות ישראל שמגורם היה נהריה",

"created\_at": "2024-04-14T15:52:15.505Z",

"updated\_at": "2024-04-14T15:52:15.505Z"

}

if it saved the record you get status 201.

if a mandatory field is missing, like name, the return status is 422 and you receive:

{

"name": [

"חסר ערך לשדה"

]

}

A dictionary with fields, and each field with its errors.

# Get all cemeteries

get [{{url}}cemeteries](https://hakhel-c99c0466c9a2.herokuapp.com/hke/api/v1/cemeteries)

receive:

[

{

"id": 39,

"name": "כפר ורדים",

"description": **null**,

"created\_at": "2024-04-13T19:02:28.536Z",

"updated\_at": "2024-04-13T19:02:28.536Z"

},

{

"id": 40,

"name": "בית קברות מעלות תרשיחא",

"description": "בית הקברות הצבאי בו קבורים חללי מלחמות ישראל שמגורם היה במעלות",

"created\_at": "2024-04-14T15:22:40.620Z",

"updated\_at": "2024-04-14T15:22:40.620Z"

},

{

"id": 41,

"name": "בית קברות נהריה",

"description": "בית הקברות הצבאי בו קבורים חללי מלחמות ישראל שמגורם היה נהריה",

"created\_at": "2024-04-14T15:37:42.250Z",

"updated\_at": "2024-04-14T15:37:42.250Z"

},

{

"id": 42,

"name": "בית קברות נהריה",

"description": "בית הקברות הצבאי בו קבורים חללי מלחמות ישראל שמגורם היה נהריה",

"created\_at": "2024-04-14T15:52:15.505Z",

"updated\_at": "2024-04-14T15:52:15.505Z"

}

]

Note: at the moment address fields are not saved

# Delete cemetery

delete [{{url}}cemeteries](https://hakhel-c99c0466c9a2.herokuapp.com/hke/api/v1/cemeteries)/<cemetery id>

if OK, you get status 204.

# Get all deceased people

get {{url}}/deceased\_people

receive:

[

{

"id": 3387,

"first\_name": "רחל",

"last\_name": "(כליף) פתייה",

"gender": "female",

"occupation": **null**,

"organization": **null**,

"religion": "יהודי",

"father\_first\_name": "עזרא יהודה",

"mother\_first\_name": "שמחה",

"hebrew\_year\_of\_death": "התשס\"ב",

"hebrew\_month\_of\_death": "שבט",

"hebrew\_day\_of\_death": "ח'",

"date\_of\_death": **null**,

"time\_of\_death": **null**,

"location\_of\_death": "ישראל",

"cemetery\_id": 39,

"cemetery\_region": **null**,

"cemetery\_parcel": **null**,

"created\_at": "2024-04-13T19:02:29.979Z",

"updated\_at": "2024-04-13T19:02:29.979Z"

},

{

"id": 3388,

"first\_name": "צאלח",

"last\_name": "(כליף) פתייה",

"gender": "male",

"occupation": **null**,

"organization": **null**,

"religion": "יהודי",

"father\_first\_name": "ישועה",

"mother\_first\_name": "פרחה",

"hebrew\_year\_of\_death": "התשל\"ו",

"hebrew\_month\_of\_death": "ניסן",

"hebrew\_day\_of\_death": "י'",

"date\_of\_death": **null**,

"time\_of\_death": **null**,

"location\_of\_death": "ישראל",

"cemetery\_id": 39,

"cemetery\_region": **null**,

"cemetery\_parcel": **null**,

"created\_at": "2024-04-13T19:02:30.577Z",

"updated\_at": "2024-04-13T19:02:30.577Z"

},..

]

# Create new deceased person

post {{url}}/deceased\_people

body:

{"deceased\_person":

{ "first\_name": "דוד"

}

}

receive (errors in this case:)

{

"cemetery": [

"must exist"

],

"last\_name": [

"חסר ערך לשדה"

],

"gender": [

"חסר ערך לשדה",

"מין לא תקין. צריך להיות זכר או נקבה."

],

"hebrew\_year\_of\_death": [

"חסר ערך לשדה"

],

"hebrew\_month\_of\_death": [

"חסר ערך לשדה"

],

"hebrew\_day\_of\_death": [

"חסר ערך לשדה"

]

}