

Final Project: Hybrid

Volunteer Projects API

URL: <https://volunteers-app.appspot.com>

This simple API and app can be utilized by a volunteer coordinator to keep track of volunteer projects and the information of the volunteers that are assigned to those projects. The two entities are Project and Volunteer; both entities can be added, updated and removed from the database. The relationship between a Project and a Volunteer is one to many. Each project can have many volunteers, but each volunteer can only be assigned to one project at a time.

Project

Attribute	Type	Data Stored
id	<i>string</i>	url safe identifier
name	<i>string</i>	project name
date	<i>string</i>	project data
category	<i>string</i>	project category
location	<i>string</i>	project location
volunteers	<i>list[]</i>	volunteers assigned to project
self	<i>url</i>	link to self

Volunteer

Attribute	Type	Data Stored
id	<i>string</i>	url safe identifier
name	<i>string</i>	first and last name
age	<i>int</i>	volunteer's age
phone	<i>string</i>	phone number
interests	<i>string</i>	volunteer preferences
project	<i>string</i>	project id assigned to
self	<i>url</i>	link to self

Add a new Project

POST /project

Input: application/json

Required fields: name, date, category, location

Add a new Volunteer

POST /volunteer

Input: application/json

Required fields: name, age, phone, interests

Get all Projects and Volunteers

GET /

Returns json list of all the Projects and Volunteers in the database

Get all Projects

GET /project

Returns json list of all the Projects in the database

Get all Volunteers

GET /volunteer

Returns json list of all the Volunteers in the database

Get a Project by ID

GET /project/:id

Returns the project data correlated with the provided project id

Get Volunteer by ID

GET /volunteer/:id

Returns the volunteer data correlated with the provided volunteer id

Get all Project Volunteers

GET /project/:id/volunteers

Returns all the Volunteers that are assigned to the Project id provided

Update a Project

PATCH /project

Can update the following fields: name, date, category, location.

Fields not updated are kept the same

Update a Volunteer

PATCH /volunteer

Can update the following fields: name, age, phone, interests.

Fields not updated are kept the same

Delete a Project

DELETE /project/:id

Project is deleted from the database by id

Delete a Volunteer

DELETE /volunteer/:id

Volunteer is deleted from the database by id

Get all Volunteers not assigned to Project

GET /volunteer/no_project

Returns a json array of all the Volunteers in the database that have not been assigned to a Project (project attribute is Null)

Add Volunteer to Project

PUT /volunteer/:id

Assigns a Volunteer to a Project. If the Volunteer identified by the provided id already has a project assigned to it (project attribute is not null), a 400 error code is returned. If the request is successful, the Project volunteers list attribute is updated and the Project id is added to the Volunteer's project attribute.

Remove Volunteer from Project

PATCH /volunteer/:id

Removes the Volunteer corresponding to the id from the Project's volunteers list and sets that Volunteer's project attribute to Null.