Volunteer Database Documentation

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API Documentation

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1.1.1 Query Parameters

Validation

Query parameters which do not pass validation will be silently ignored.

Truthyness and Falsyness

For query parameters which expect a boolean, the following values are interpreted as `True`.

- the string `'true'`
- the string `'True'`
- the number `1`

For query parameters which expect a boolean, the following values are interpreted as `False`.

- the string `'false'`
- the string `'False'`
- the number `0`
- the value `null`

Comparison notation

For query parameters which need comparisons beyond equality or truthyness, the following notation is used.

> **query_param integer size{__lt,__gt}**

In this example, the `size` query parameter can be sent in three formats.

- `/endpoint/?size=3`

  All results with size equal to 3

- `/endpoint/?size__lt=3`

  All results with size less than 3

- `/endpoint/?size__gt=3`

  All results with size greater than 3

The following suffixes map to the followin comparisons.

- `__lt:  <`
- `__lt=:  <=`
- `__gt:  >`
- `__gte:  >=`
- `__ne:  !=`
- `__between l < x < r` *(non-inclusive of endpoints)*
- `__ibetween l <= x <= r` *(inclusive of endpoints)*
- `__lbetween l <= x < r` *(left inclusive of endpoints)*
- `__rbetween l < x <= r` *(right inclusive of endpoints)*

For `between` comparisons, the two values should be separated by a comma.

- `/endpoint/?size__between=1,8`

  All sizes between 1 and 8,

Shifts

TODO: high level overview of the shift model.

2.1 Schema

TODO: specification for the shift schema and validation.

2.2 Endpoints

GET /api/v1/shifts/
> The list view of all shifts.
>
> **Example response**:
>
> ```
> HTTP/1.1 200 OK
> Vary: Accept
> Content-Type: application/json
>
> {
>   "next": "http://example.com/api/v1/shifts/?page=2"
>   "prev": null,
>   "count": 123,
>   "results": [
>     {
>       "id": 1,
>       ...
>     },
>     {
>       "id": 2,
>       ...
>     },
>     ...
>   ]
> }
> ```
>
> > **Query Parameters**
> >
> > - **page** (*integer*) – Specify which page of results.
> >
> > - **page_size** (*integer*) – Page size for results. Max 100.

- **order** (*integer*) – Sort the results. TODO: list choices.

- **shift_length{__lt,__lte,__gt,__gte,__between,__ibetween,__lbetween,__rbetween}** (*integer*) – Filter to shifts based on their `shift_length`

- **start_time{__lt,__lte,__gt,__gte,__between,__ibetween,__lbetween,__rbetween}** (*datetime*) – Filter to shifts based on their `start_time`

- **owner{__ne}** (*integer*) – Filter to shifts based on the primary key of its owner.

- **department{__ne}** (*integer*) – Filter to shifts based on the primary key of its department.

- **requires_code** (*boolean*) – If `True`, only return shifts which require a code to claim. If `False`, only return shifts which do **not** require a code to claim.

Response JSON Object

- **next** (*string*) – The url of the next page of results. *null* if no next page.

- **prev** (*string*) – The url of the previous page of results. *null* if no next page.

- **count** (*number*) – The total number of records.

- **results** (*array*) – The shift objects. See the detail view for the individual object schema.

Status Codes

- 200 OK – success.

- 403 Forbidden – permissions error.

GET /api/v1/shifts/:id/
The detail view for a single shift.

Example response:

```
Content-Type: application/json

{
   "id": 1,
   ...
}
```

Response JSON Object

- **id** (*number*) – The primary key of the shift.

TODO: the rest of the schema

Status Codes

- 200 OK – success.

- 404 Not Found – not found.

- 403 Forbidden – permissions error.

PUT /api/v1/shifts/:id/
The detail view for a single shift.

Example request

```
Content-Type: application/json

{
  ...  # TODO
}
```

Example response

```
Content-Type: application/json

{
  "id": 1,
  ...  # TODO
}
```

Status Codes

- [200 OK](#) – success.

- [404 Not Found](#) – not found.

- [403 Forbidden](#) – permissions error.

Response JSON Object

- **department** (*integer*) – The primary key of the `Department` the shift belongs to. Required.

- **start_time** (*datetime*) – A datetime in [ECMA 262 date time string specification](#). (Example `2013-01-29T12:34:56.123Z`). All dates are in Mountain Time (`UTC-0700`).

- **shift_length** (*integer*) – Number of hours in the shift. Must be greater than zero and less than or equal to 24 (`0 < n <= 24`). Requireds.

- **owner** (*integer*) – The primary key of the `User` who has claimed the shift. Optional. Nullable.

- **code** (*string*) – Code required to claim shift. Optional. If falsy, shift will not required a code. Nullable.

PATCH /api/v1/shifts/:id/
When making a `PATCH` request, only the fields that are posted are validated. This is useful for updating a single field, without caring what the other values need to be such as claiming a shift.

DELETE /api/v1/shifts/:id/
Delete the shift.

Status Codes

- [204 No Content](#) – success.

- [404 Not Found](#) – not found.

- [403 Forbidden](#) – permissions error.

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