



# TestAPI Documentation

Endpoint: <http://localhost:8000>

This API is used for getting list of educational institutions in Rostovskaya Oblast'.

## Basics

### Terms

*Institution* — model that represents one educational institution in subject.

### Institution structure

```
I. = Institution
Format: "name": <type> [DEFAULT] Description.

{
  "id": <int> ID of the I. Unique, primary key in DB, auto increment. Used for getting I.
  "full_name": <str> Full name of I. Cannot be null, unlike other fields.
  "short_name": <str> Shortened name (most common is abbreviation) of I.
  "type": <str> Type of I. in terms of government.
  "director_name": <str> First, last and middle names separated by space.
  "address": <str> Full physical address of I., including post index.
  "phone_number": <str> One or more numbers, only digits and ',' separators.
  "site_url": <str> Full URL of the I. website.
}

All fields except full_name are null by default.
```

## API Methods

**/get\_all** [GET]

Get all existing Institutions.

```
Content-Type: <application/json>
```

```
[<Institution>]
```

## **/get\_by\_id/<institution\_id> [GET]**

Get Institution by its unique ID.

```
Content-Type: <application/json>
```

```
Requested <Institution> or 404
```

## **/search [POST]**

Search for Institutions by **several** fields.

```
Content-Type: <application/json>
```

```
{
  FIELD1: "value1",
  ...
  FIELDN: "valueN"
}
```

When you set field, API is trying to get Institution which contains this field.  
For example, you can set {"full\_name": "государственное учреждение"} and API will return all Institutions that contains государственное учреждение in their full name.  
Not case-sensitive.

If you set multiply fields, it will apply AND operator and return Institutions that match all field constraints.

```
Content-Type: <application/json>
```

```
[<Institution>]
```

## **/create [POST]**

Create new Institution.

Content-Type: <application/json>

```
{
  "full_name": <str>,
  [other fields]: <str>
}
```

Note that "full\_name" is required for creating new Institution. All other fields will set to null by default.

To prevent occasional mistakes, this method returns 403 if any field in request is not implemented in Institution model.

Phone number will be fixed (all non-digit symbols will be deleted).

Content-Type: <application/json>

New <Institution> or 403

## **/update/<institution\_id> [PUT]**

Update fields of existing Institution.

Content-Type: <application/json>

```
{
  FIELD: <str>,
  ...
}
```

All specified fields will be updated to values.

Phone number will not be fixed. This is special feature in case of wrong automatic number fix at Institution creation.

Content-Type: <application/json>

Updated <Institution> or 404

## **/delete/<institution\_id> [DELETE]**

Delete Institution by its ID.

```
Content-Type: <application/json>
```

```
{  
  "status": "OK"  
}
```

```
or 404
```

## Implementation

<https://github.com/AdamArutyunov/TestAPI>