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## App

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### Who it works

The application works like a regular website, to run you need a local server with access to the Internet or hosting. (Bootstrap is loaded from the cdn link).

You need to create a database. The DB file restapi.sql is located in the root folder. There is one table in DB - 'numbers'. It has two columns 'id' and 'rand\_num' .

For the 'id' column, I disabled auto\_increment so that each time the 'id' starts with '1'. DB connection settings need to be edited in the file: core\DbConnection.php

Application Logic - MVC

Next, you need to enter the minimum and maximum values for generating random numbers and click on 'Generate numbers'.

For example, if you enter 2 and 10 respectively, then nine random numbers will be generated and nine rows will be written to the table, where 'id' will be from 1 to 9, and random numbers from 2 to 10 will be written to 'rand\_num'. The previous generation will be removed.

To get a number, you need to enter any 'id' from 1 to 9 in the 'Retrieve a number by id' field. The script will work if you enter at least one digit.

## 2

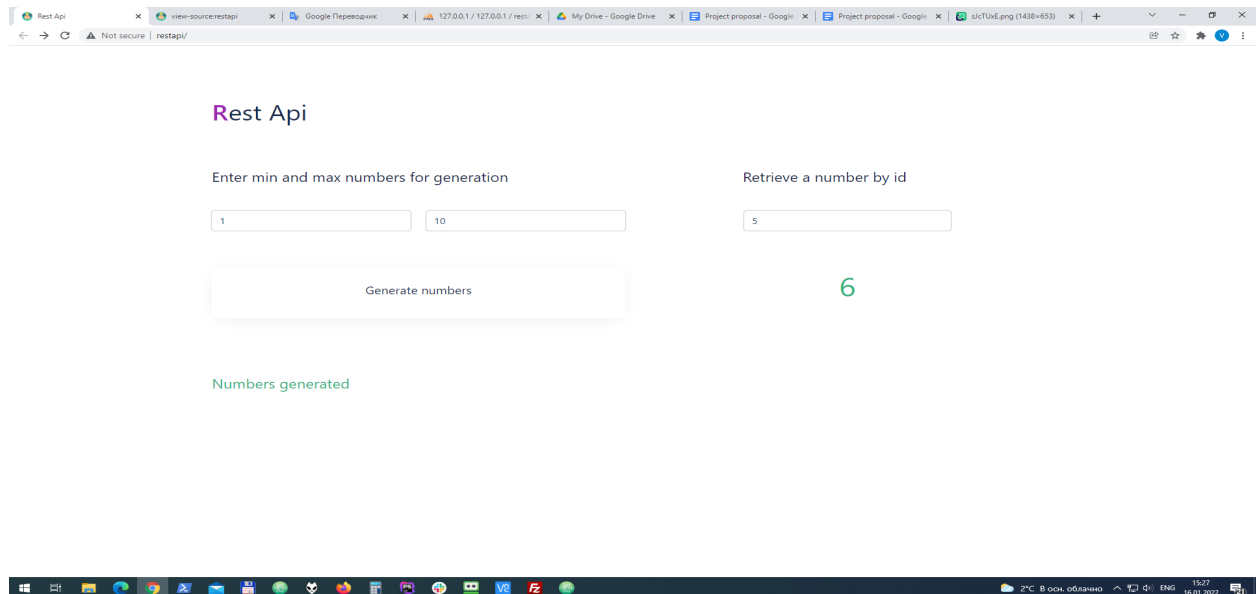
If you enter, for example, 20, then the message 'Nothing found' will appear.

The input fields are checked, only numbers can be entered, otherwise the message 'Wrong number' is displayed. The minimum value must be less than the maximum, otherwise 'Wrong number'.

The generate() and retrieve() methods can be viewed in the controller here:  
app\controllers\NumbersController.php

The relevant model is here: app\models\Numbers.php

Screenshot:



## What was used

PHP 7.4, SQL 5.7, Bootstrap 5.0, jQuery