REST-API

(Numbers Game)

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1. Range - POST

POST the range of the numbers to be used and the correct value to guess later (minimum, maximum and correct value)

Request

Method	URL
POST	/curl -i -H "Content-Type: application/json" -X POST - '{"minimum":23,"maximum":27,"correct":24}' http://localhost:5000/range

Туре	Params	Values
POST	minimum	Integer
POST	maximum	Integer
POST	correct	Integer

Response:

Status	Response
201	{ "correct": 24, "maximum": 27, "minimum": 23 }
400	Responses for POST:
	{ "error": "Bad Request" }

Range – GET

Get the values of max, min range to guess the correct value in that range.

Request

Method	URL
GET	curl -i http://localhost:5000/range

Response

Status	Response
200	Response will be an object containing minimum and maximum values of the range
	{ "maximum": 27, "minimum": 23 }
404	Response for GET - If the range is not posted earlier { "error": "Not found" }

2. Guess - POST

Post the values of guesses to be tested against the true value.

Request

Method	URL
POST	<pre>curl -i -H "Content-Type: application/json" -X POST -d '{"guess": 24}' http://localhost:5000/guesses</pre>

Type	Params	Values
POST	guess	Integer

Response

Status	Response
201	Guesses:
	<pre>If the guessed value is lower than the correct value { "guess": 23, "result": "lower than correct value" }</pre>
	If the guessed value is higher than the correct value {
	"guess": 25, "result": "higher than correct value" }
	<pre>If the guessed value == correct value { "guess": 24, "result": "correct" }</pre>
	<pre>If the guess value is outside the range { "guess": 28, "result": "outside range" }</pre>
400	Response for POST - If the range is None or there is no Guess parameter in the request:
	"error": "Bad Request"

}

Guess - GET

Get guess history – If there is none then returns empty list, when we make a few guesses and can have the entire history of our guesses in one place.

Request

Method	URL
GET	curl -i http://localhost:5000/guesses

Response

<pre>Initially: { "guesses": [] } After Guessing: { "guesses": [{ "guess": 25, "result": "higher than correct value"</pre>	Status	Response
<pre> }, { "guess": 23, "result": "lower than correct value" }, { "guess": 24, "result": "correct" }, { "guess": 28, "result": "outside range" }] } </pre>	200	<pre>{ "guesses": [] } After Guessing: { "guesses": [</pre>

Glossary

Conventions

- Client Client application.
- Status HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All response are in JSON format.

Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client's part

5XX - Error occurred in server's part

Status Code	Description
200	ОК
201	Created
400	Bad request
404	Resource not found