

# Contests Results Interface

Contest submission by RSquad

<http://easy-result.rsquad.io>

<https://github.com/RSquad/easy-result>

@inyellowbus

## Description

When developing this solution, we were guided by the following principles

- maximum user convenience
- intuitive interface, which not overloaded with information not related to a specific task
- communication occurs only between the user and the blockchain

We managed to create an interface that is complete. complies with these principles. Only user and blockchain. No additional requests other than blockchain requests. Nothing is cached or saved, while the speed of work remains at the proper level.

Loading the client, the first block, and one request to graphql for each individual contest is the key to speed and transparency.

Name	Status	Type	Initiator	Size	Time	Waterfall	
<input type="checkbox"/> tonclient.wasm	304	fetch	zone-evergreen.js:1...	213 B	39 ms		
<input type="checkbox"/> info?t=1615845733609	200	xhr	zone-evergreen.js:2...	368 B	1 ms		
<input type="checkbox"/> graphql?query=%7Binfo%7Bversion%...	200	fetch	a30f54e0-1981-4dc...	170 B	68 ms		
<input type="checkbox"/> graphql	200	fetch	a30f54e0-1981-4dc...	796 kB	429 ms		
<input type="checkbox"/> graphql	200	fetch	a30f54e0-1981-4dc...	168 kB	77 ms		

The solution can be downloaded and run on a local browser with two commands and not even go to the existing site, which allows it to be maximally autonomous and secure.

## Technologies

For development, we used "@tonclient/core": "^1.10.2" to work with the blockchain and "@angular/core": "~ 11.2.4" to write the interface.

Run the solution locally is simple:

- install node.js
- install angular npm install -g @ angular/cli
- run the application in the root of the repository - ng serve
- the application is running on port 4200

# Overview

When you visit the site, a form for entering the address of the contest is displayed in front of you. Let's take a look at the full cycle using the example of the most massive Free TON Christmas / New Year greeting card design

## Easy Results

### Load Contest

Enter the address of the contest, the results of which you want to watch

Load contest

After entering the address and downloading data from the blockchain, a contest will appear in front of you. The upper block is information about the contest, where you can see the name of the contest, the total number of votes, the jury and other available information.

Free TON Christmas/New Year greeting card design

Ended

December 14, 2020 - December 29, 2020, 00:00 UTC

Submissions

276

Jury members

22

Total votes

4139

Accepted

3163

Abstained

611

Rejected

365

The next block is a block of settings for displaying and uploading results. In it you can set:

- Display type - a mode for displaying applications, by places by average score or accepted / not accepted
- Threshold, points - the Threshold parameter, which sets the lower passing score (all applications below this parameter will be rejected when calculating the results)
- Threshold, reject - the Threshold parameter, which sets the maximum possible number of rejects to get into the prizes (all applications whose number of rejects is higher than the parameter value will be rejected when calculating the results)
- Threshold, reject percent - the Threshold parameter, which sets the maximum possible percentage of rejects relative to the total number of votes to get into the prizes (all applications for which the percentage of rejects of the total number of votes is higher than the parameter value will be rejected when calculating the results)

All parameters work with each other. You can use any combination at the same time. To ignore the parameter, just erase the value from the input

Type

Points ☒ Yes/No

Threshold, points

5

Threshold, rejects


10

Threshold, rejects percent

50

Next, a block with submissions is displayed in which there is all the available information about the application, prize places, sorting and the ability to set when, if the contest has already ended

#### Submissions

ID ▾	Author	Applied, UTC	Links	Avg	Rej	Abst	Total	Places	Reward
▼ 276	0:a4e...1fd	Dec 21, 23:59	<a href="#">PDF</a> <a href="#">🗨</a>	3.3	1	2	33	188	TON
▼ 275	0:e9e...545	Dec 21, 23:55	<a href="#">PDF</a> <a href="#">🗨</a>	8.7	1	2	87		TON
▼ 274	0:90a...f09	Dec 21, 23:55	<a href="#">PDF</a> <a href="#">🗨</a>	8.182	0	2	90	4	TON
▼ 273	0:50f...cf1	Dec 21, 23:54	<a href="#">PDF</a> <a href="#">🗨</a>	5.546	0	2	61	87	TON
▼ 272	0:cf0...0c9	Dec 21, 23:54	<a href="#">PDF</a> <a href="#">🗨</a>	1	4	2	6	—	Submission rejected and will not get reward
▼ 271	0:e03...c18	Dec 21, 23:53	<a href="#">PDF</a> <a href="#">🗨</a>	4	2	2	36	156	TON
▼ 270	0:cf0...0c9	Dec 21, 23:53	<a href="#">PDF</a> <a href="#">🗨</a>	1	4	2	7	—	Submission rejected and will not get reward
▼ 269	0:867...794	Dec 21, 23:52	<a href="#">PDF</a> <a href="#">🗨</a>	1	4	2	7	—	Submission rejected and will not get reward
▼ 268	0:867...794	Dec 21, 23:51	<a href="#">PDF</a> <a href="#">🗨</a>	1	4	2	6	—	Submission rejected and will not get reward

If the contest is still running, the submission section will look like this

#### Submissions

ID ▾	Author	Applied, UTC	Links	Avg	Rej	Abst	Total
▼ 16	0:35e...49e	Mar 14, 10:03	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 15	0:49a...1c9	Mar 11, 15:17	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 14	0:3e8...a20	Mar 11, 10:43	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 13	0:268...6c5	Mar 10, 15:41	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 12	0:699...d97	Mar 10, 13:36	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 11	0:3e8...a20	Mar 06, 07:41	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 10	0:e6f...74b	Mar 05, 13:16	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 9	0:9c0...c8b	Mar 05, 08:56	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 8	0:a8b...2c5	Mar 04, 20:41	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0
▼ 7	0:49a...1c9	Mar 03, 15:33	<a href="#">PDF</a> <a href="#">🗨</a>	0	0	0	0

Each of the submissions can be revealed and the votes for it can be viewed

#### Submissions

ID ▾	Author	Applied, UTC	Links	Avg	Rej	Abst	Total	Places	Reward
▼ 276	0:a4e...1fd	Dec 21, 23:59	<a href="#">PDF</a> <a href="#">📄</a>	3.3	1	2	33	—	Submission rejected and will not get reward
▼ 275	0:e9e...545	Dec 21, 23:55	<a href="#">PDF</a> <a href="#">📄</a>	8.7	1	2	87	👑	<input type="text" value="TON"/>
Vote ▾	Jury	Public key	Comment						
10	0:2ed...a20	0xba7...71f	Why wo titles?)						
10	0:904...402	0xaea...527	Postcards are just what we need!						
9	0:9ba...875	0x8e7...981	This is amazing job! You can see that a lot of work has been done here... I love it, thank you and good luck!						
9	0:a6f...d04	0xffb...111	Unique piece of work, nice and attractive design.						
9	0:097...edc	0x5e9...7f9	<a href="https://docs.google.com/spreadsheets/d/1L6vQPdGXYdGMS1vfS0In-MyO8_X6Y6Vw5uk3Uv7g5Bc">https://docs.google.com/spreadsheets/d/1L6vQPdGXYdGMS1vfS0In-MyO8_X6Y6Vw5uk3Uv7g5Bc</a>						
8	0:9f9...315	0x611...248	Professional work						
8	0:a73...920	0x856...d05	Unique concept interesting designs						

The last block of the application is the block with the jury list. In it you can see the full list of addresses and public keys eligible to vote in this contest.

#### Jury

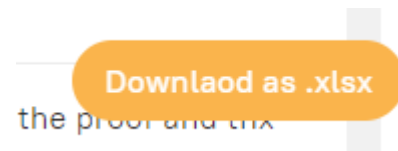
Address	Votes ▾	Accepts	Rejects	Abstains	Pubkey	Reward
▼ 0:9ba...875	276	251	23	2	0x8e7...981	<input type="text" value="TON"/>
▼ 0:9f9...315	276	261	15	0	0x611...248	<input type="text" value="TON"/>
▼ 0:2ed...a20	276	245	31	0	0xba7...71f	<input type="text" value="TON"/>
▼ 0:918...717	276	272	4	0	0xac8...b28	<input type="text" value="TON"/>
▼ 0:097...edc	276	222	54	0	0x5e9...7f9	<input type="text" value="TON"/>
▼ 0:904...402	276	244	32	0	0xaea...527	<input type="text" value="TON"/>
▼ 0:041...5c9	276	276	0	0	0xa93...73e	<input type="text" value="TON"/>
▼ 0:f12...b89	276	0	0	276	0xd80...b1e	<input type="text" value="TON"/>
▼ 0:6f4...1ae	276	0	0	276	0x555...622	<input type="text" value="TON"/>

As well as submissions, the lines of the jury can be opened and the votes can be viewed in a different context - how the jury member voted for the submissions

#### Jury

Address	Votes ▼	Accepts	Rejects	Abstains	Pubkey	Reward
▼ 0:9ba...875	276	251	23	2	0x8e7...981	TON
Vote ▼	Jury	Public key	Comment			
10	0:9ba...875	0x8e7...981	Wow, great job! I really like it, it looks wonderful!			
10	0:9ba...875	0x8e7...981	Wow, very colorful and coolly drawn! I like it very much!			
10	0:9ba...875	0x8e7...981	I like it very much! Very cute and minimalistic! Good luck!			
10	0:9ba...875	0x8e7...981	Good job, everything looks very concise. The work is 100% done			
10	0:9ba...875	0x8e7...981	Russian New Year) Funny card! Made in style!			
10	0:9ba...875	0x8e7...981	Interesting idea! Beautiful work, bright colors, that's what you need for a Christmas card! Good luck!			
10	0:9ba...875	0x8e7...981	Wow, very cool, I like that the drawing is done by hand. Thx for the proof and thx for your job.			
10	0:9ba...875	0x8e7...981	awesome, the author made 3 versions of the greeting card and each one looks really cool. I like 2 and 3			

The download as .xlsx button is always visible on the bottom right of the screen - it will allow you to download the contest data in the required format



## How to use

Let's try to go through the full cycle from contest water to pumping out .xlsx

1. Enter the address of the contest (in this example it is still Free TON Christmas / New Year greeting card design)
2. Set restrictions
  - a. Prizes are awarded only to those with a score, for example, more than 3
  - b. Prizes are received only by those with less than 4 rejections

3. We enter the data, we see that the table has been successfully recalculated

Submissions

▼	251	0:c27...a93	Dec 21, 23:17	PDF	🗨	3.2	1	2	32	191	TON
▼	134	0:cbc...636	Dec 21, 17:21	PDF	🗨	3.182	2	2	35	192	TON
▼	46	0:b5e...fbf	Dec 20, 13:24	PDF	🗨	3.143	0	2	44	193	TON
▼	54	0:312...338	Dec 20, 16:02	PDF	🗨	3.083	2	2	37	194	TON
▼	39	0:a42...15e	Dec 20, 08:44	PDF	🗨	3.071	0	3	43	195	TON
▼	77	0:dd2...07c	Dec 20, 22:38	PDF	🗨	1	10	3	3	—	Submission rejected and will not get reward
▼	121	0:08a...8a5	Dec 21, 15:23	PDF	🗨	1	8	3	5	—	Submission rejected and will not get reward
▼	94	0:682...675	Dec 21, 12:05	PDF	🗨	2.714	7	2	19	—	Submission rejected and will not get reward
▼	93	0:682...675	Dec 21, 12:04	PDF	🗨	2	7	2	14	—	Submission rejected and will not get reward
▼	27	0:555...8b4	Dec 19, 17:56	PDF	🗨	1.857	7	2	13	—	Submission rejected and will not get reward

4. By the way, if you set the toggle switch to Yes / No, the table will arrange all the places according to the threshold

Submissions

▼	251	0:c27...a93	Dec 21, 23:17	PDF	🗨	3.2	1	2	32	👑	TON
▼	134	0:cbc...636	Dec 21, 17:21	PDF	🗨	3.182	2	2	35	👑	TON
▼	46	0:b5e...fbf	Dec 20, 13:24	PDF	🗨	3.143	0	2	44	👑	TON
▼	54	0:312...338	Dec 20, 16:02	PDF	🗨	3.083	2	2	37	👑	TON
▼	39	0:a42...15e	Dec 20, 08:44	PDF	🗨	3.071	0	3	43	👑	TON
▼	186	0:450...43b	Dec 21, 21:08	PDF	🗨	3.875	5	2	31	—	Submission rejected and will not get reward
▼	195	0:980...df9	Dec 21, 21:21	PDF	🗨	3.222	4	2	29	—	Submission rejected and will not get reward
▼	98	0:682...675	Dec 21, 12:08	PDF	🗨	3.125	6	2	25	—	Submission rejected and will not get reward
▼	184	0:450...43b	Dec 21, 21:06	PDF	🗨	3	4	2	27	—	Submission rejected and will not get reward
▼	237	0:541...5ac	Dec 21, 22:42	PDF	🗨	3	1	2	30	—	Submission rejected and will not get reward

5. Let's start entering prizes, for example, let's take numbers from 100 to 1

Submissions											
	ID	Author	Applied, UTC	Links	Avg	Rej	Abst	Total	Places ^	Reward	
▼	275	0:e9e...545	Dec 21, 23:55	<a href="#">PDF</a> <a href="#">🗨</a>	8.7	1	2	87	👑	100	TON
▼	155	0:e2a...eaa	Dec 21, 19:06	<a href="#">PDF</a> <a href="#">🗨</a>	8.615	0	2	112	👑	99	TON
▼	24	0:9a9...377	Dec 19, 16:54	<a href="#">PDF</a> <a href="#">🗨</a>	8.429	0	3	118	👑	98	TON
▼	274	0:90a...f09	Dec 21, 23:55	<a href="#">PDF</a> <a href="#">🗨</a>	8.182	0	2	90	👑	97	TON
▼	167	0:7d8...932	Dec 21, 20:18	<a href="#">PDF</a> <a href="#">🗨</a>	8.154	0	2	106	👑	96	TON
▼	209	0:ab6...84b	Dec 21, 21:41	<a href="#">PDF</a> <a href="#">🗨</a>	8.091	0	2	89	👑	95	TON
▼	222	0:ab6...c7d	Dec 21, 22:14	<a href="#">PDF</a> <a href="#">🗨</a>	8	0	2	96	👑	94	TON
▼	157	0:d80...7d5	Dec 21, 19:15	<a href="#">PDF</a> <a href="#">🗨</a>	7.923	0	2	103	👑	93	TON
▼	180	0:bca...0c9	Dec 21, 20:51	<a href="#">PDF</a> <a href="#">🗨</a>	7.909	1	2	87	👑	92	TON

6. We will introduce prizes for jury members in the block below

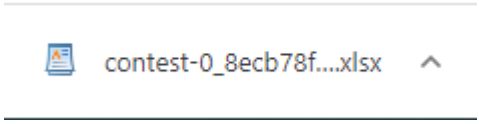
Jury

▼	0:a73...920	253	241	12	0	0x856...d05	10	TON
▼	0:4fb...06e	217	177	34	6	0x7d6...80b	10	TON
▼	0:854...6c7	186	143	43	0	0x6f1...1be	10	TON
▼	0:37b...d18	143	140	3	0	0xcf0...730	10	TON
▼	0:676...e80	43	0	0	43	0x6c2...7f0	0	TON
▼	0:144...e70	0	0	0	0	0x1a3...a3f	Jury member didn't vote and will not get reward	
▼	0:e32...0db	0	0	0	0	0xf0c...5e7	Jury member didn't vote and will not get reward	
▼	0:ef0...3af	0	0	0	0	0xb37...c9c	Jury member didn't vote and will not get reward	
▼	0:7af...dd0	0	0	0	0	0x1ee...886	Jury member didn't vote and will not get reward	

7. Please note that there is no need to enter a revision for jury members who have not given any grade, as well as for rejected submissions.

0:144...e70	0	0	0	0	0x1a3...a3f	Jury member didn't vote and will not get reward
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8. Now you can click on Download as .xlsx. The file will be generated without additional requests and downloaded. The file name matches the mask contest-{contestAddress} .xlsx





## 9. Open the file in any convenient editor

K23								
	A	B	C	D	E	F	G	H
1	Free TON Christmas/New Year greeting card design							
2								
3								
4								
5	Submission №	Wallet address	Average score	Ranking	Reward	Accepted	Abstained	Rejected
6	275	0:e9edd2fb5648.7000			1 100	10	2	1
7	155	0:e2a5090d15e8.6154			2 99	13	2	0
8	24	0:9a9bcf9f792c8.4286			3 98	14	3	0
9	274	0:90afb2004d28.1818			4 97	11	2	0
10	167	0:7d87235f7f97.8.1538			5 96	13	2	0
11	209	0:ab60eea5f9c8.0909			6 95	11	2	0
12	222	0:ab6f36428a68.0000			7 94	12	2	0
13	157	0:d808919352f7.9231			8 93	13	2	0
14	180	0:bca6f30aa247.9091			9 92	11	2	1
15	255	0:9afb72360977.7273			10 91	11	2	0
16	22	0:676effd8fee07.7143			11 90	14	3	0
17	15	0:ac14a6db50c7.6429			12 89	14	3	0
18	107	0:68238a29e6e7.6154			13 88	13	3	0
19	49	0:b4c189b9cb27.5714			14 87	14	2	0
20	256	0:16b2b045fae7.5455			15 86	11	2	0
21	163	0:3bae51536774.5000			16 85	12	2	0
22	9	0:3473b2042b67.4286			17 84	14	3	0
23	187	0:a8a18a0a9259.74167			18 83	12	2	0
24	109	0:7fbee137b667.3571			19 82	14	2	0
25	69	0:9428a4def447.3571			20 81	14	2	0
26	164	0:441c28827567.73077			21 80	13	2	0
27	193	0:6c021a1cc5d7.2500			22 79	12	2	0
28	248	0:e30439e26159.7.2000			23 78	10	2	1
29	259	0:16b2b045fae7.1818			24 77	11	2	0
30	176	0:7d87235f7f97.7.1538			25 76	13	2	0
31	165	0:b4c189b9cb27.7.1538			26 75	13	2	0
32	59	0:9a9bcf9f792c8.7.1429			27 74	14	2	0
33	146	0:9a65eb3cd7b7.7.0833			28 73	12	2	1
34	160	0:9428a4def447.7.0769			29 72	13	2	0
35	153	0:7d87235f7f97.7.0769			30 71	13	2	0

K231:L233								
	A	B	C	D	E	F	G	
283								
284								
285	Jury Rewards							
286								
287	Jury №	Wallet address	Votes count	Reward	Accepted	Abstained	Rejected	
288	1	0:6f41374a4a1	276 0		0	0	276	
289	2	0:f12151702a8	276 0		0	0	276	
290	3	0:041e61fdf3b	276 10		276	0	0	
291	4	0:90433aa5ad3	276 10		244	32	0	
292	5	0:09707df4ff97	276 10		222	54	0	
293	6	0:918ade8c502	276 10		272	4	0	
294	7	0:2eddab8c2a6	276 10		245	31	0	
295	8	0:9f983002510	276 10		261	15	0	
296	9	0:9bab0842af5	276 10		251	23	2	
297	10	0:d4e83318e67	274 10		267	5	2	
298	11	0:f79f801f65cb	270 10		161	109	0	
299	12	0:a6fb5b5d137	269 10		263	0	6	
300	13	0:a734f38122ff	253 10		241	12	0	
301	14	0:4fb3c0771c7	217 10		177	34	6	
302	15	0:85414bd34af	186 10		143	43	0	
303	16	0:37b97d73b0f	143 10		140	3	0	
304	17	0:676effd8fee0	43 0		0	0	43	
305	18	0:cf04e2a4c27f	0 0		0	0	0	
306	19	0:7afa53386f4f	0 0		0	0	0	
307	20	0:ef0602f8721f	0 0		0	0	0	
308	21	0:e32a893972f	0 0		0	0	0	
309	22	0:144cd1183a5f	0 0		0	0	0	
310								
311								
312								