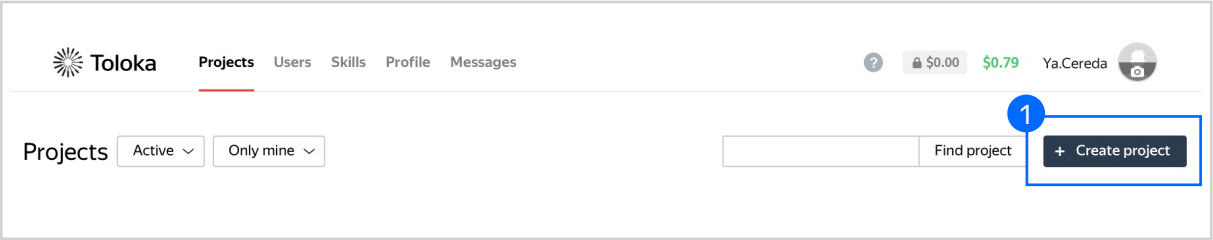
Toloka

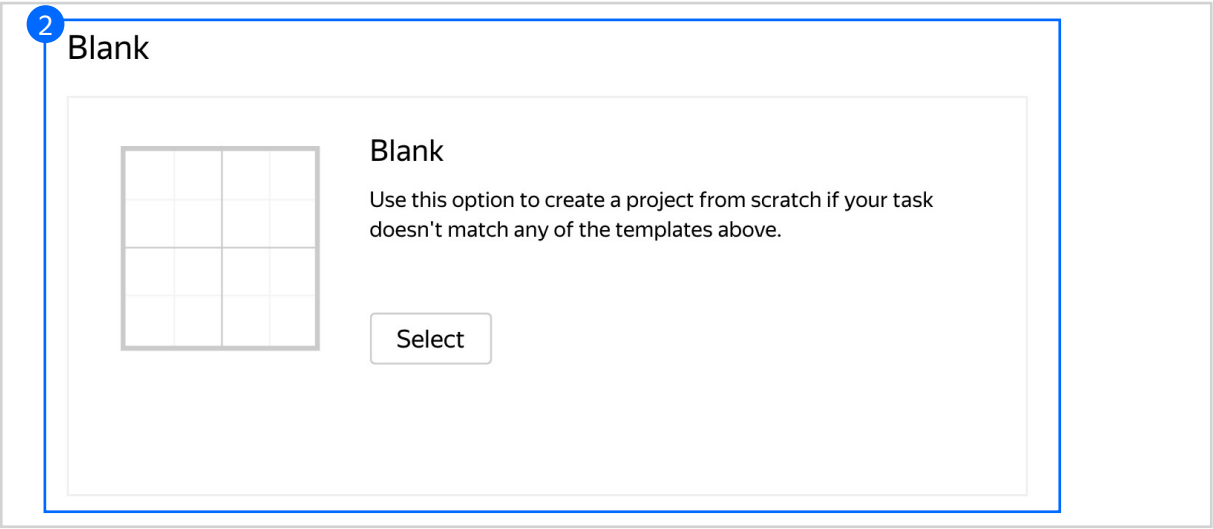
Audio classification manual

Create a project

1. Click **Create project.**

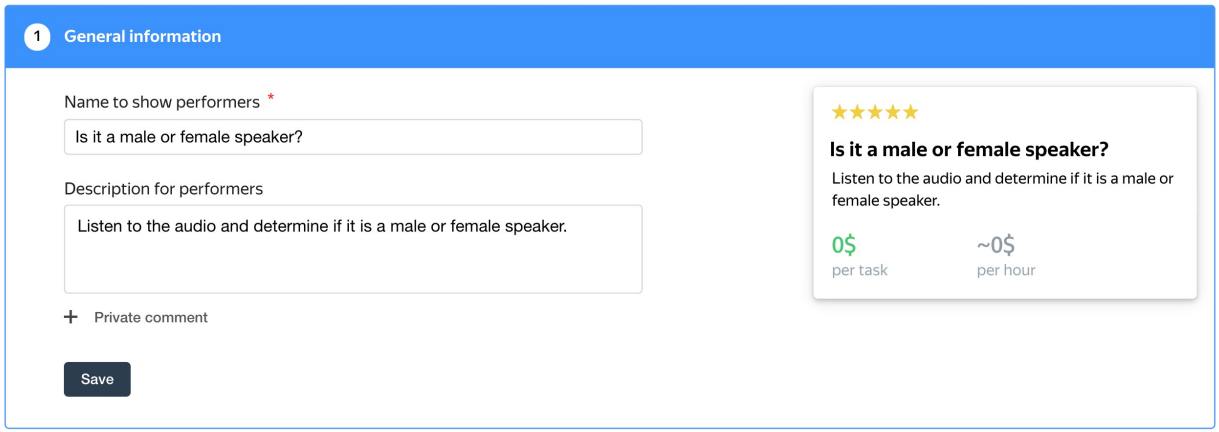


2. Choose the **Blank** template.



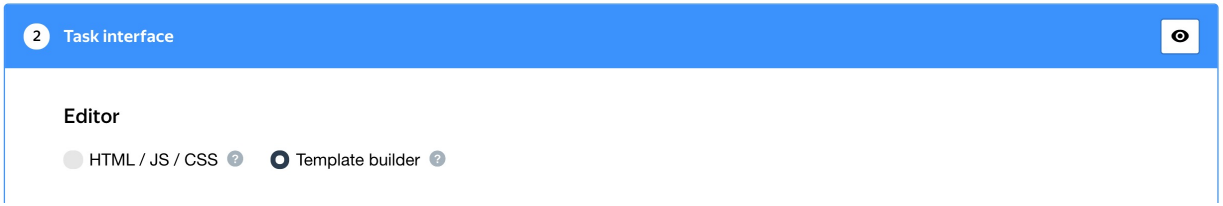
3. Enter a clear project name and description. Click **Save.**

Note: The project name and description will be visible to the performers.



4. Update the task interface in the **Template Builder** block.

   Read more about the Template Builder in the Requester's Guide.

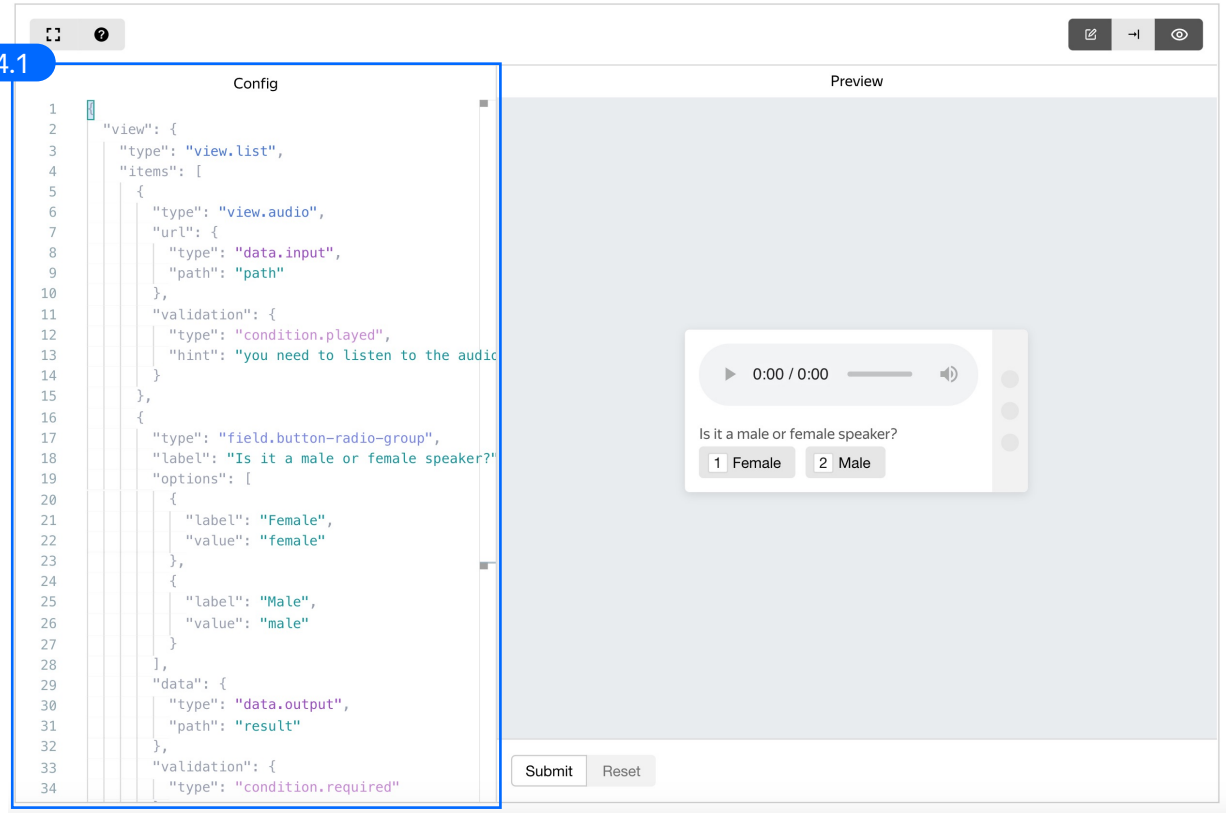


4.1. Delete the existing config and paste the code provided at the end of this manual (in the appendix).

   In the **Preview section** you can see how the template will work. The task will be performed in three steps. First, click **Play** and listen to the audio. Second, choose the correct option ("Female" or "Male"). Finally, submit your answer by clicking **Submit.**

   There is a validation rule in the template. It checks whether the performer clicked a button with an answer.

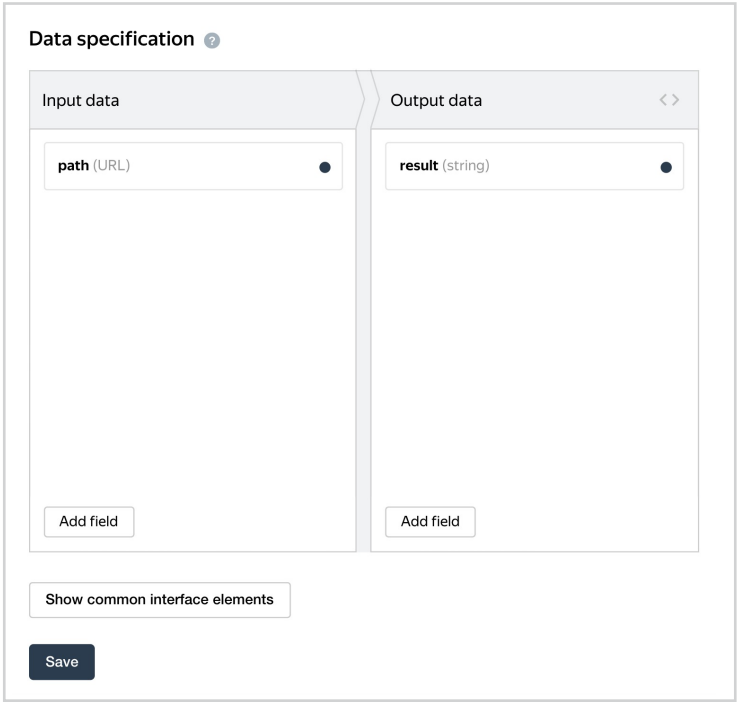
   Check the Interfaces section of our Knowledge Base for more tips on interface design.



4.2. Make sure the specifications look like this:

Note: Specifications are a description of input data that will be used in a project and the output data that will be collected from the performers.

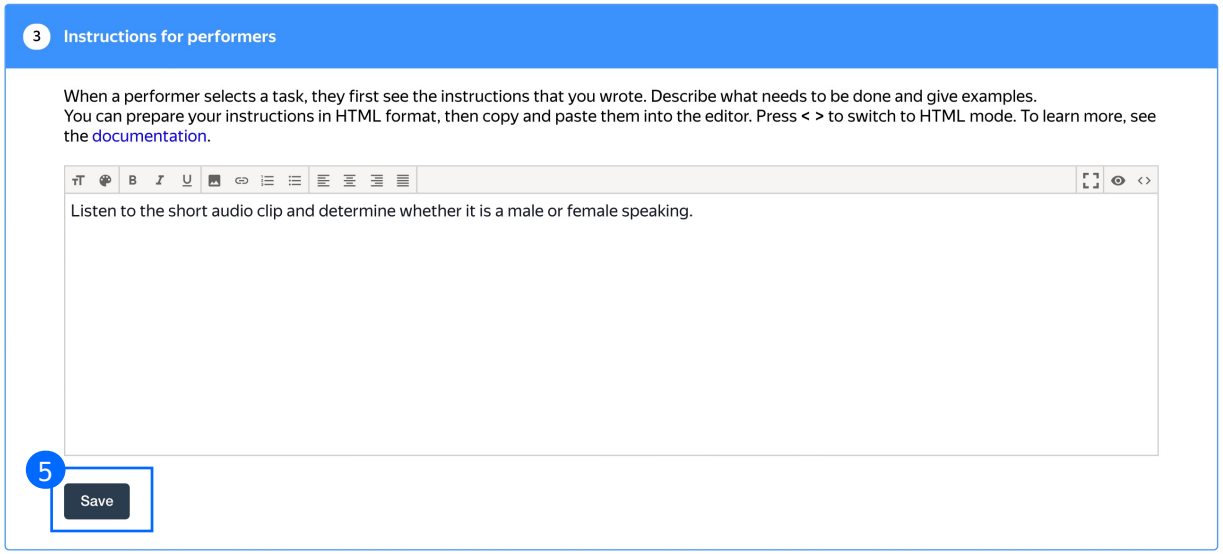
Read more about input and output data specifications in the Requester's Guide.



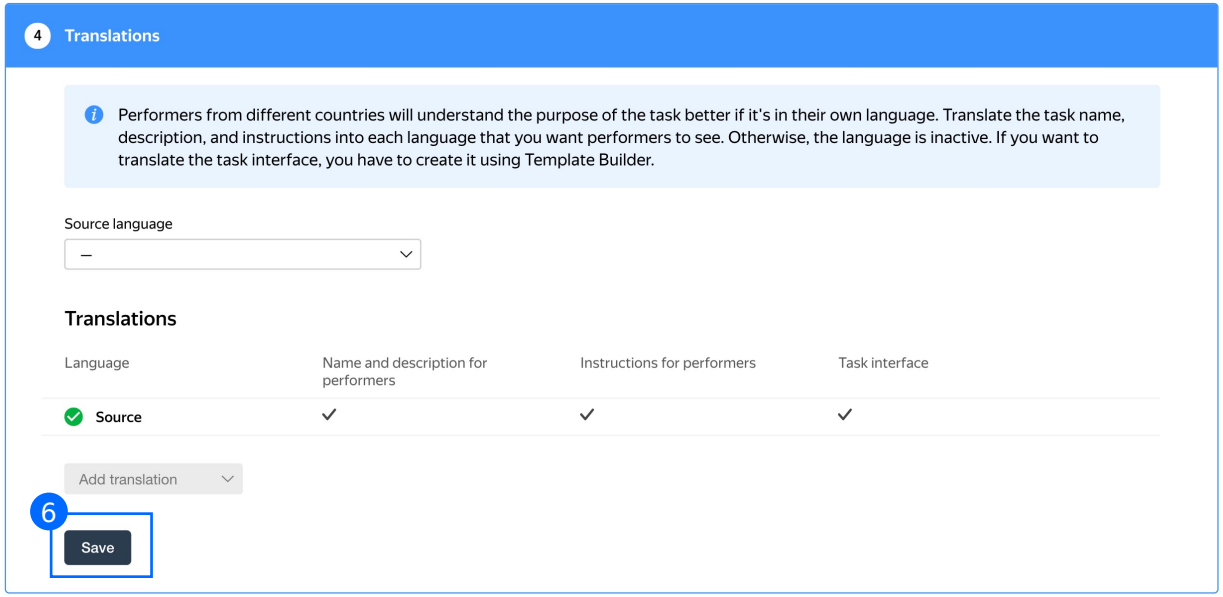
5. Write comprehensive instructions.

Click **Save.**

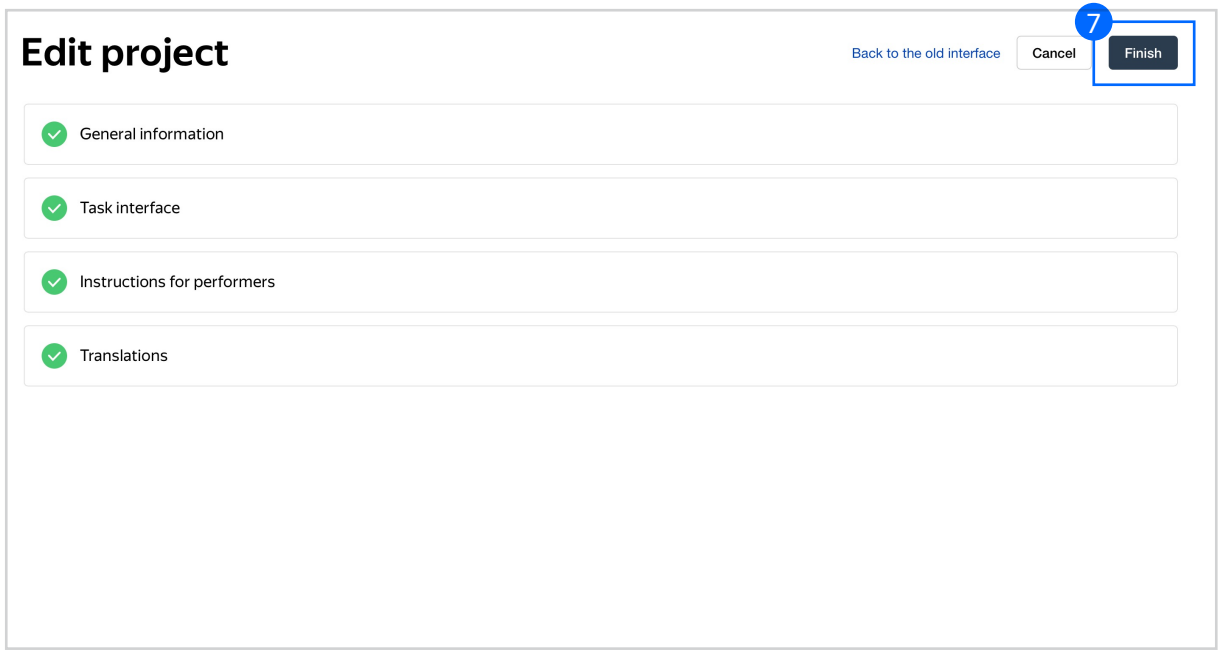
Get more tips on designing instructions in our Knowledge Base.



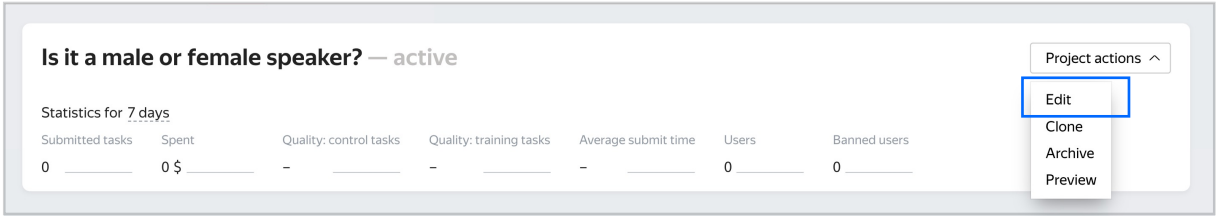
6. Leave the **Translations block** as default and click **Save.**



7. Click **Finish** to save the project.



Note: To edit project parameters, click the button in the list of projects or go to **Project actions** → **Edit** on the project page.

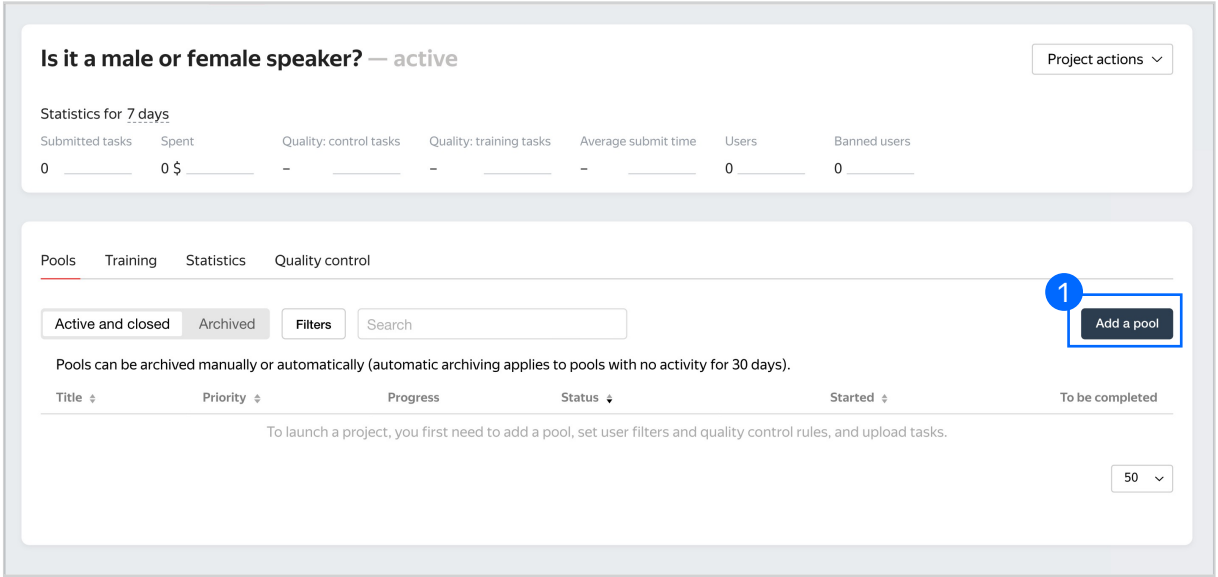


Create the main pool

1. Click **Add a pool.**

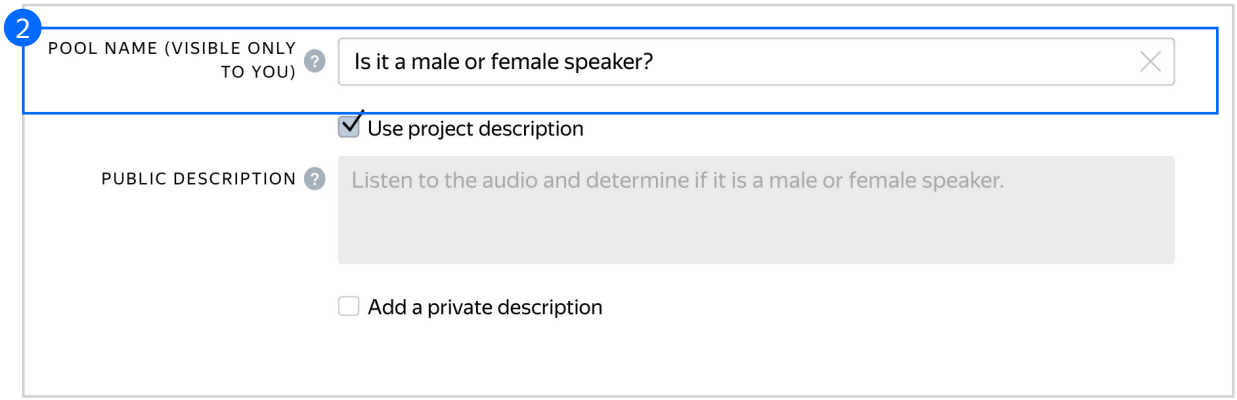
   A pool is a set of paid tasks grouped into task pages. These tasks are sent out for completion at the same time.

   Note: All tasks within a pool have the same settings (price, quality control, etc.)



2. Give the pool any name you find suitable. You are the only one who will see it.

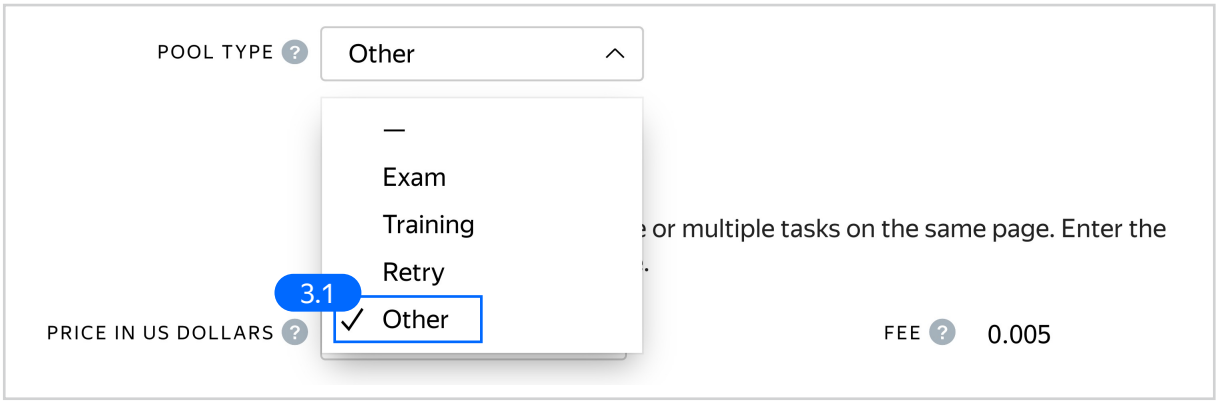
   The description can be either public or private. Choose the option you prefer.



3. Specify pool parameters:

3.1. Select pool type. Choose **Other.**

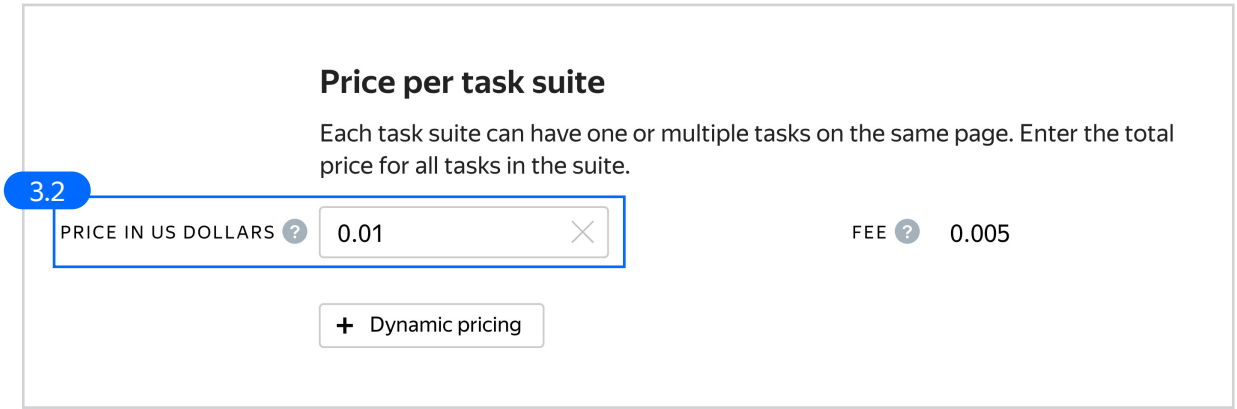
   Read more about pool types in the Requester's Guide.



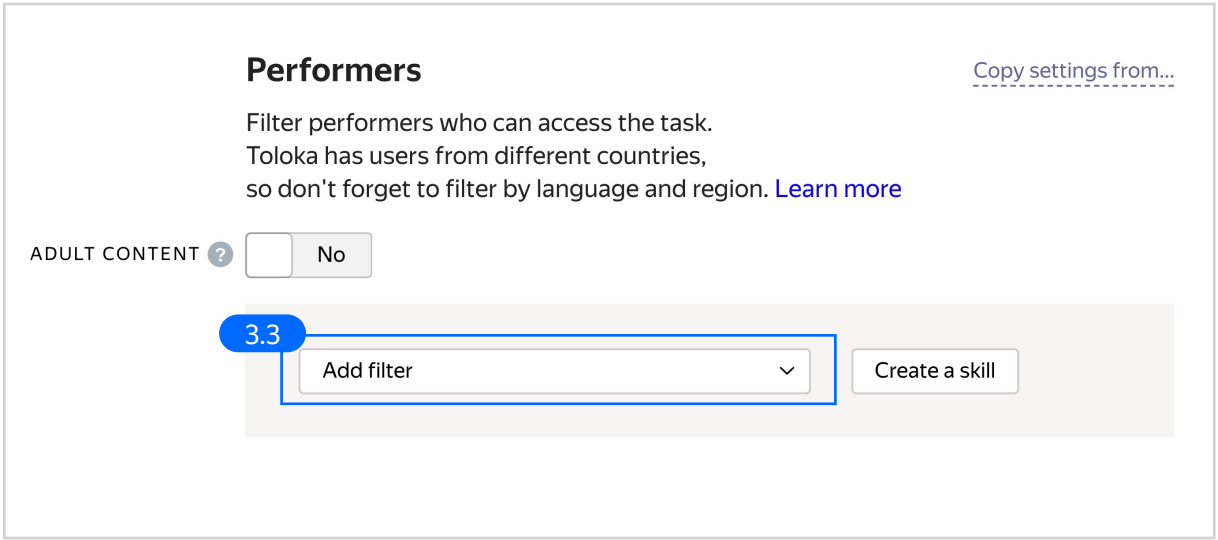
3.2. Set the price per task suite (for example, $0.01).

   Audio classification tasks are normally paid as basic tasks (e.g. binary classification) because these tasks do not take much time.

   Read more about pricing principles in our Knowledge Base.

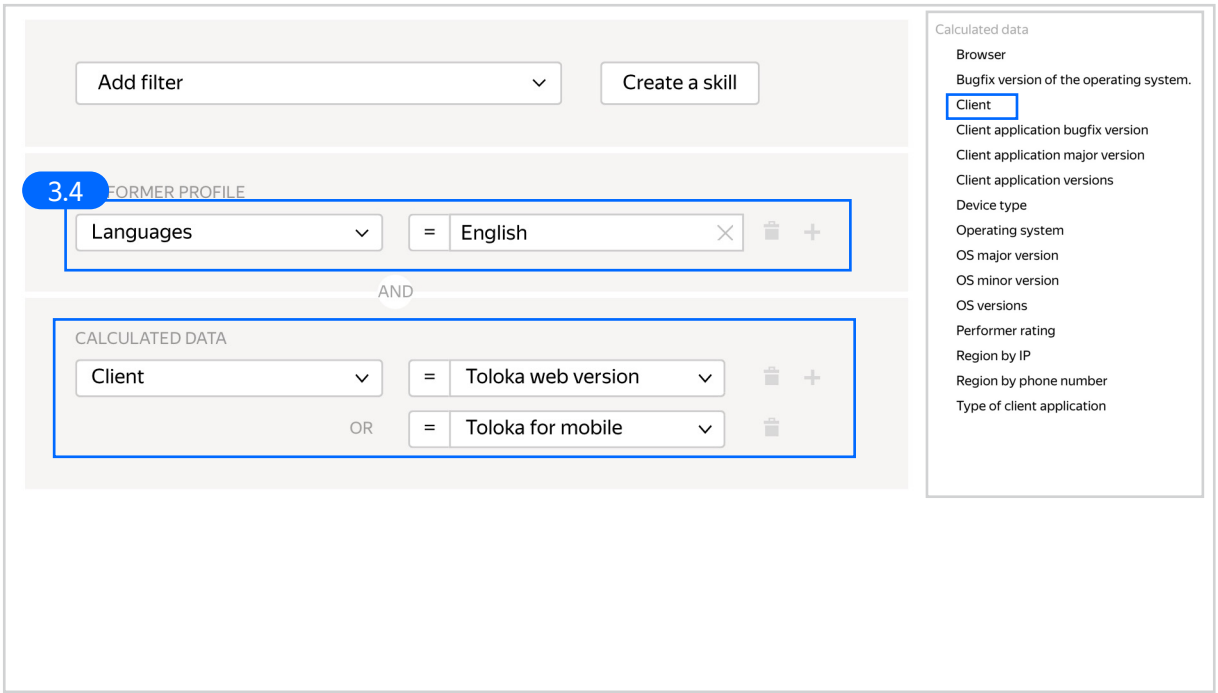


3.3. Filter performers who can access the task. Choose “**No**” in the **Adult content** block. Click **Add filter** to choose the **Languages** and **Client** options in the list.

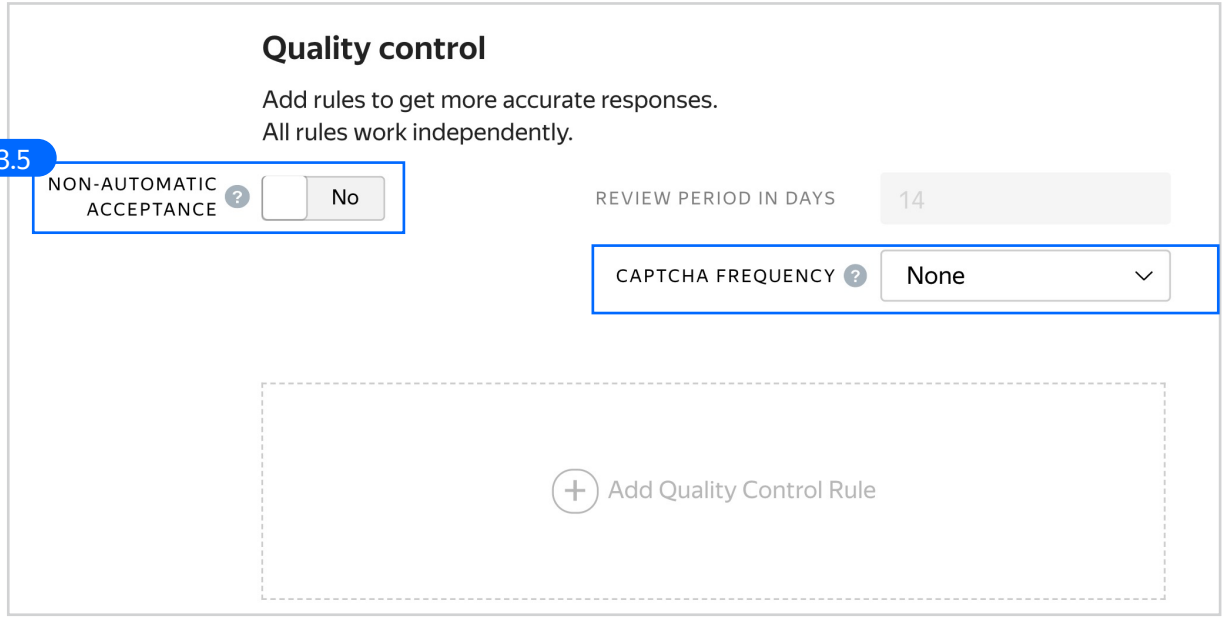


3.4. Choose **Languages = English** as your first filter. This way, performers who speak English will be invited to complete this task. Then choose **Toloka web version** and **Toloka for mobile** clients.

These filters will make it possible for performers to complete your task on their computers or mobile devices.



3.5. Set up Quality **control:** leave the **Non-automatic acceptance, Review period in days, and Captcha frequency** blocks as default.



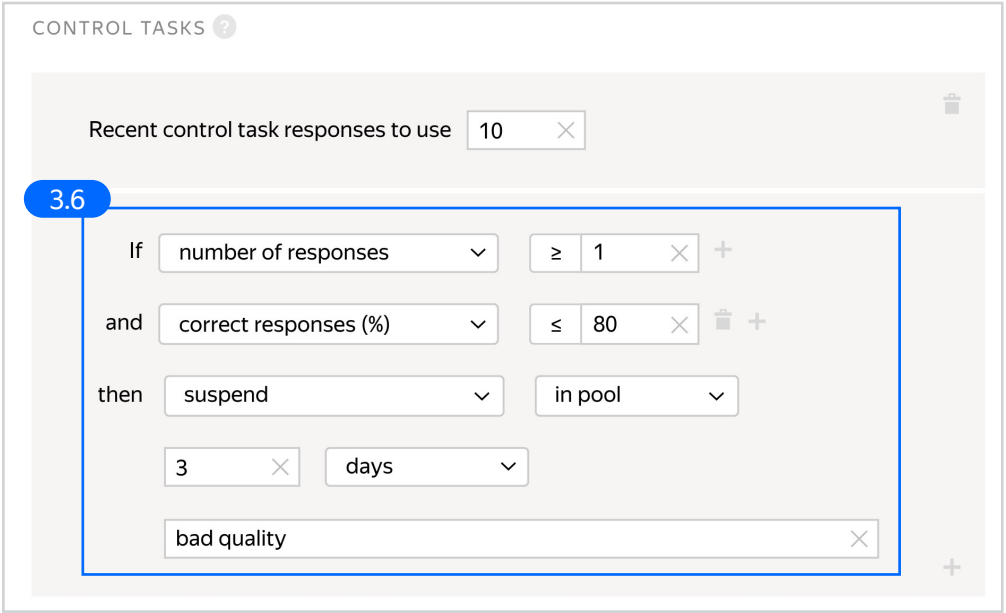
Note: Since there is one true answer to an audio classification task which can be used as ground truth, control tasks are the preferable way to check if the answers provided are acceptable.

Read more about quality control principles in our Knowledge Base or check out post-acceptance settings in the Requester's Guide.

3.6. Set up the **Control tasks rule**. Use this rule to ban Tolokers who make too many mistakes.

This rule will be triggered when a performer completes 1 control task in the pool. If the performer gives at least 1 response to control tasks and the percentage of correct responses is less than 80%, they lose access to the pool for 3 days. The rule uses up to 10 recent responses to control tasks.

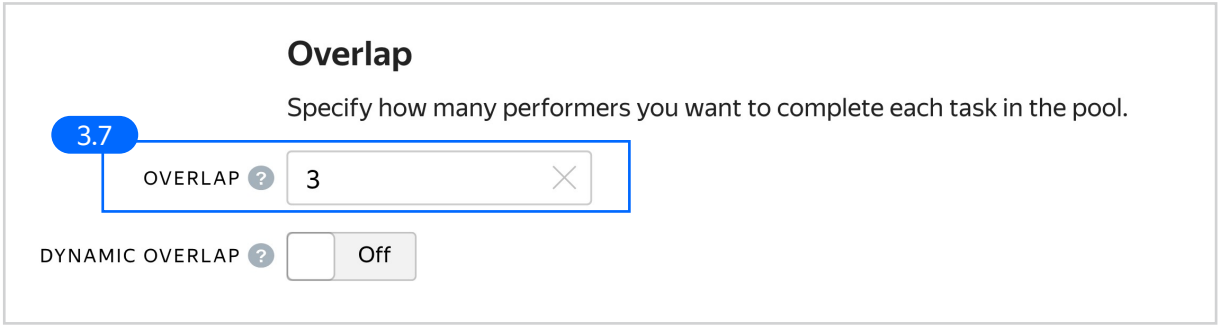
Read more about Control tasks in the Requester's Guide.



3.7. Overlap. This is the number of users who will complete the same task.

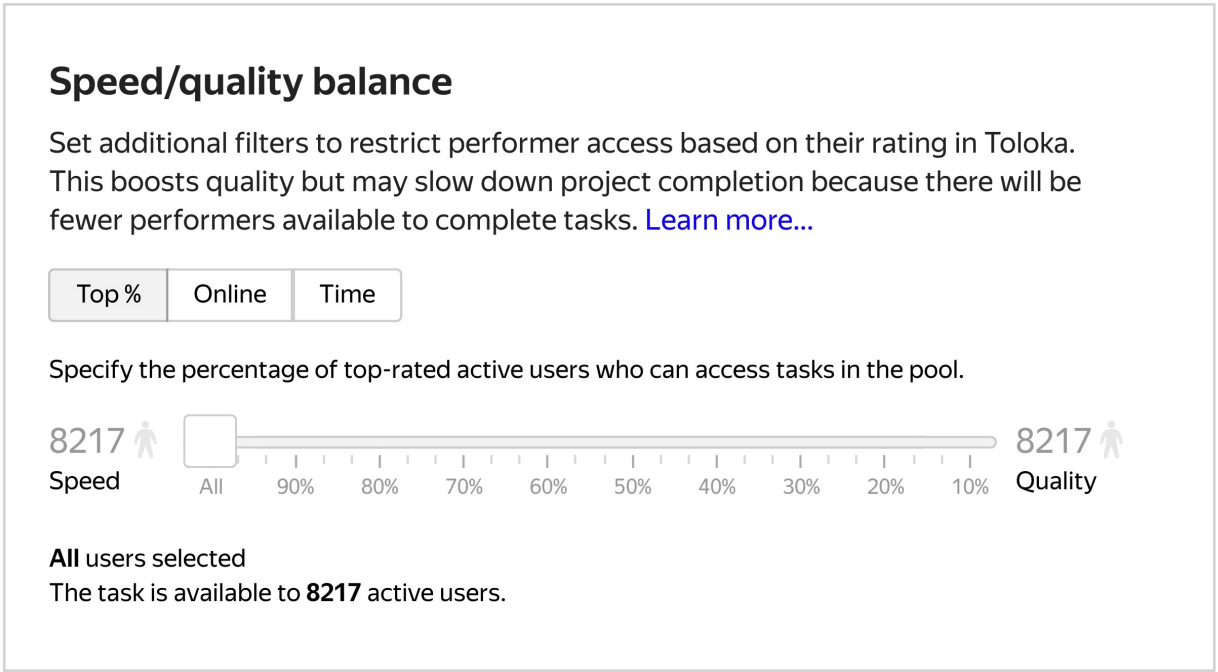
Note: In the case of audio classification tasks, you will need 3 answers to decide which one is correct.

To understand how this rule works, go to the Requester's Guide.



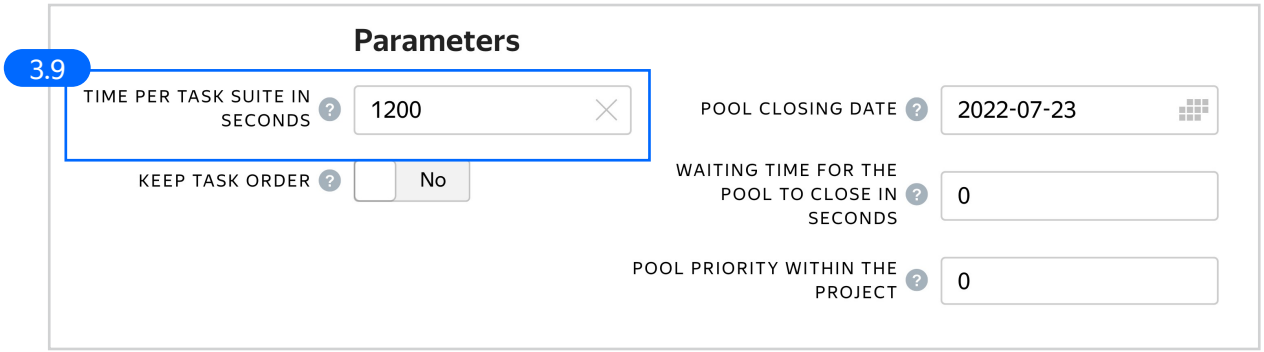
3.8. Optionally, specify the percentage of top-rated performers in the Speed / quality balance.

Note: This can slow down pool completion.

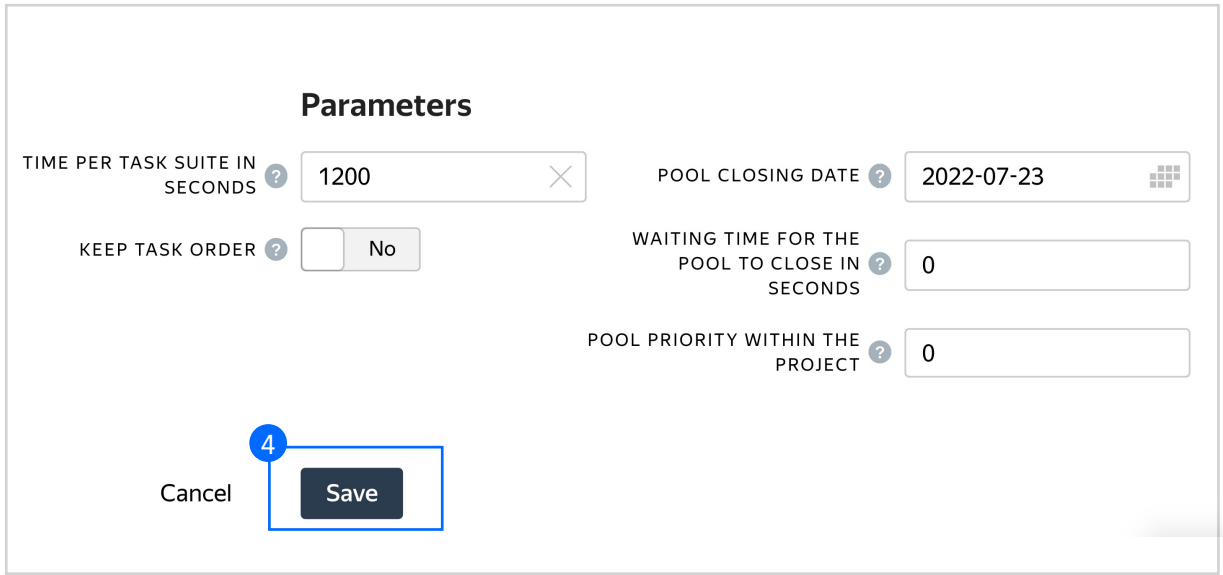


3.9. Specify the time given to complete a task suite (for example, 1200 seconds).

To understand how much time it should take to complete a task suite, try doing it yourself.



4. Click **Save** to save Pool parameters.

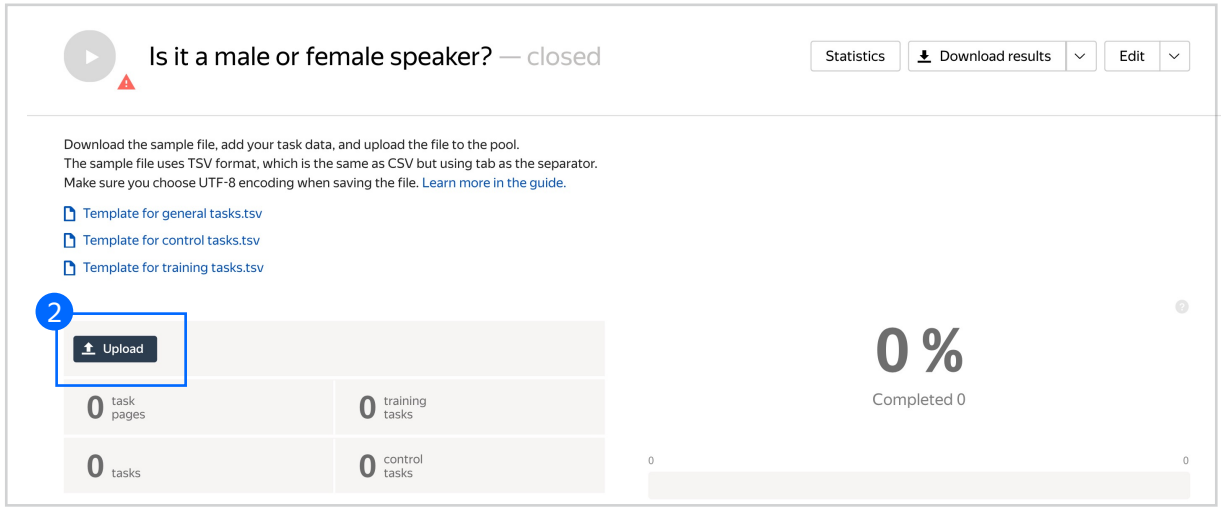


Prepare and upload a file with tasks

1. Prepare a TSV file with tasks as shown in our example (Origin).

Bibtex:
@article{adigwe2018emotional,
 title={The emotional voices database: Towards controlling the emotion dimension in voice generation systems},
 author={Adigwe, Adaeze and Tits, No{\'e} and Haddad, Kevin El and Ostadabbas, Sarah and Dutoit, Thierry},
 journal={arXiv preprint arXiv:1806.09514},
 year={2018}
}

2. Upload pool tasks from this file.



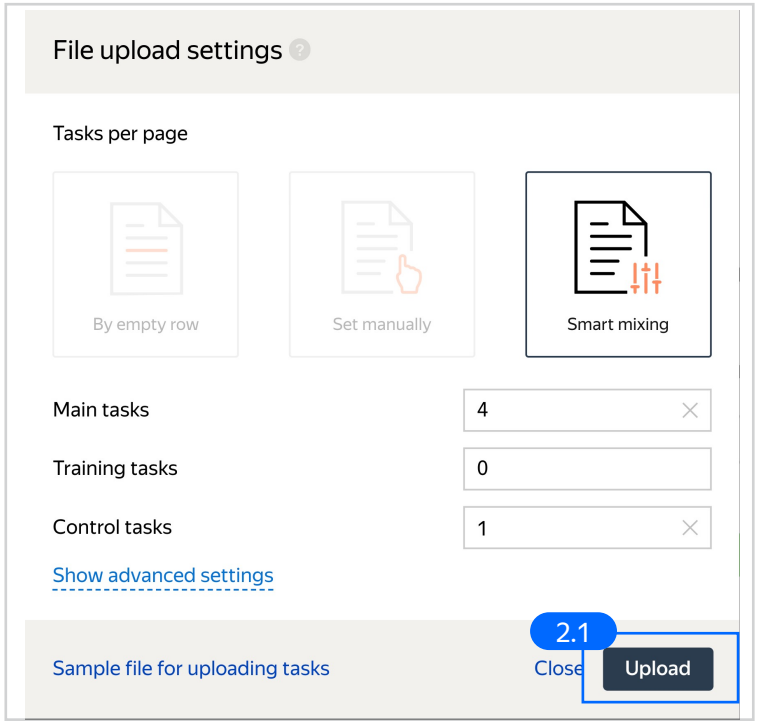
2.1. Select Smart mixing in **File upload settings** and specify the number of tasks of each type per page.

We recommend putting as many tasks on one page as a performer can complete in 1 to 5 minutes. That way, performers are less likely to get tired, and they won't lose a significant amount of data if a technical issue occurs.

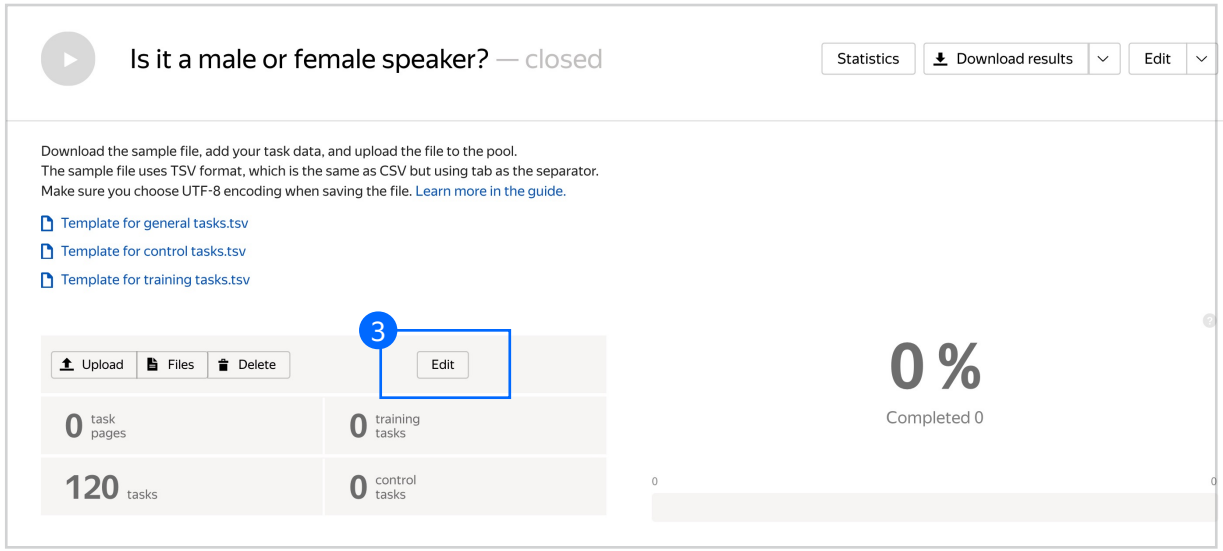
To learn more about grouping tasks into suites, read the Requester's Guide.

Click **Upload** again.

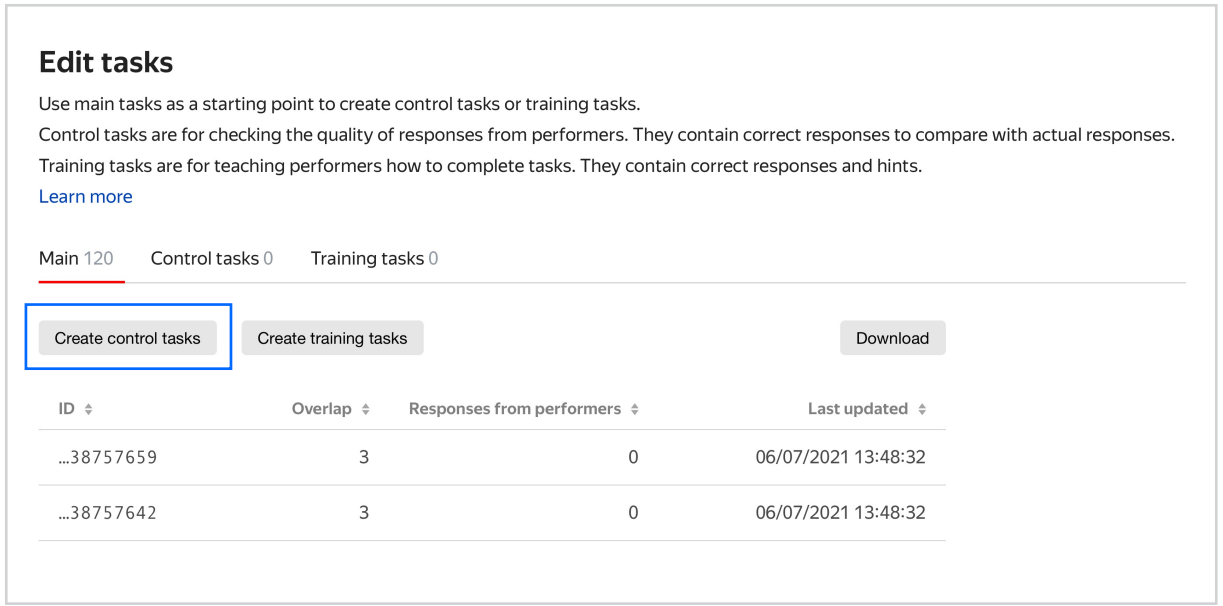
Note: If you changed the name of the input field, change it in the file as well.



3. [Create control tasks](#).
   Click **Edit** → **Create control tasks.**

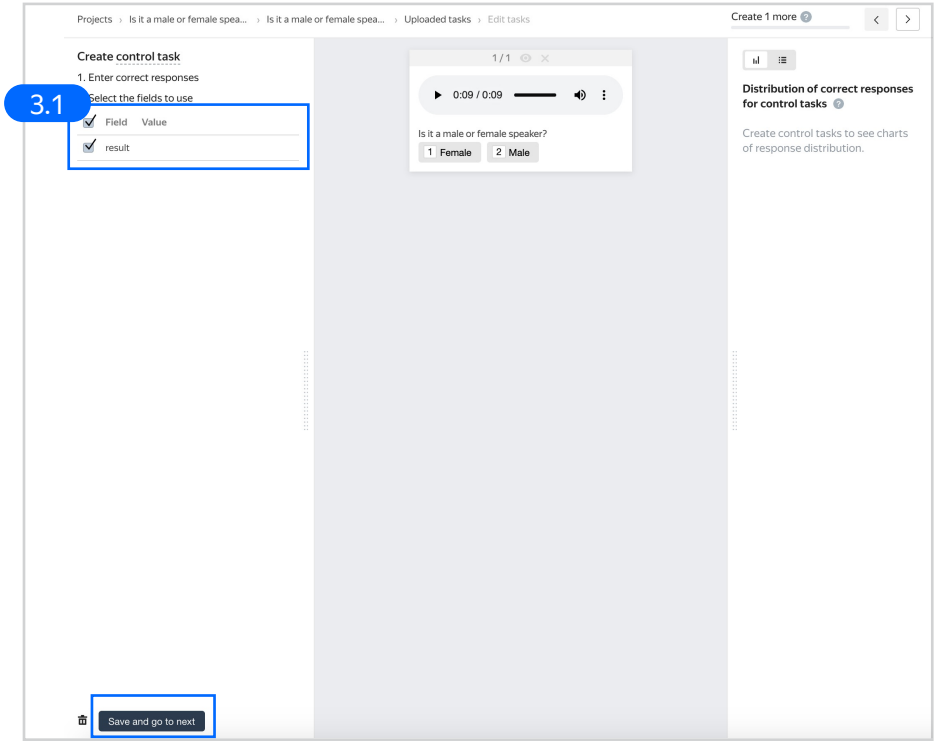


Note: Control tasks are tasks that already contain the correct response. They are used for checking the quality of responses from performers. The performer's response is compared to the response you provided. If they match, it means the performer answered correctly.



3.1. Enter correct responses for your control tasks. Check the result output field, which compares the user's response to the control task, listen to the audio, select the correct response, click **Save and go to next**. Repeat until you have 20 control tasks.

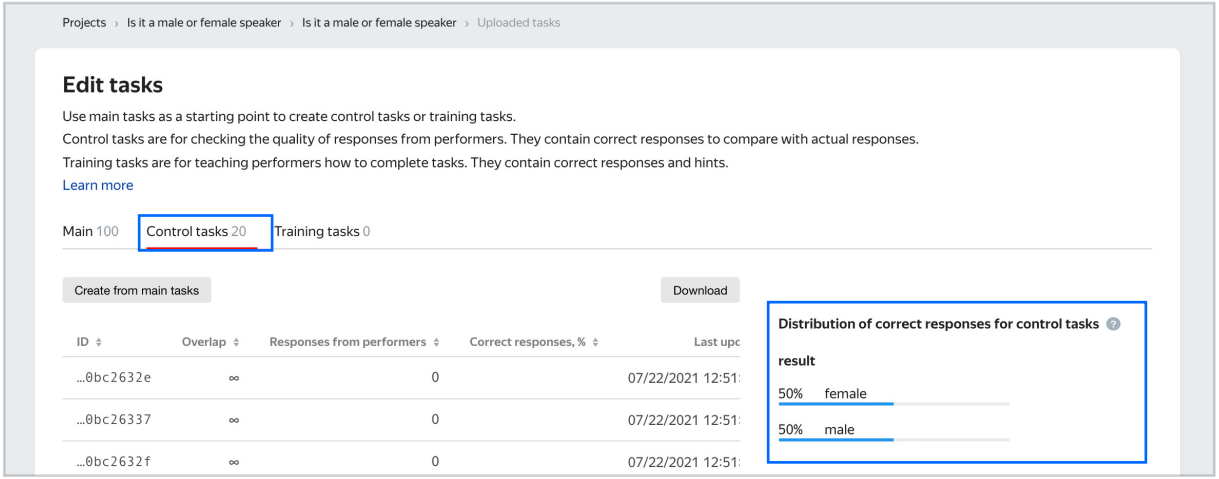
To learn more about creating control tasks, go to the Requester's Guide.



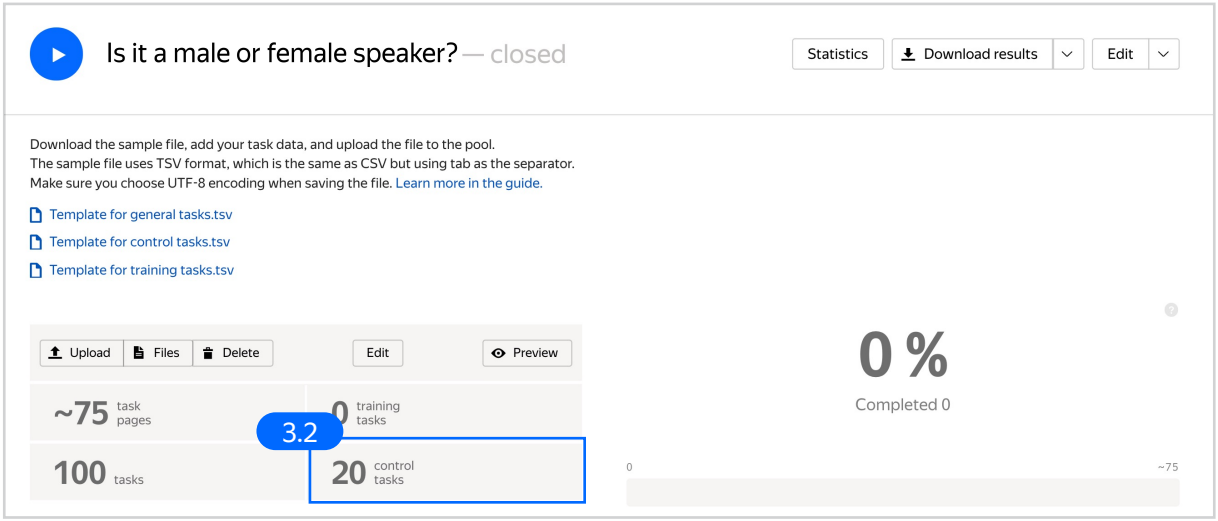
In small pools, control tasks should account for 10–20% of all tasks.

Tip. Make sure to include different variations of correct responses in equal amounts.

Go to **Uploaded tasks → Control tasks → Distribution of correct responses for control tasks** tab.

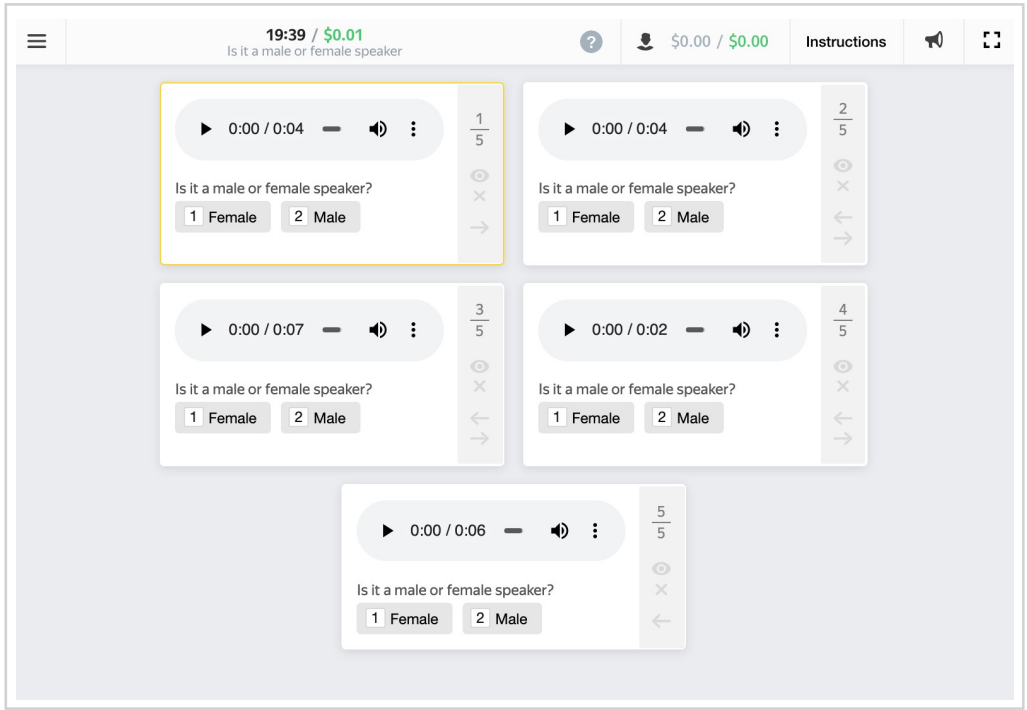


3.2. To check the number of control tasks, go to the **Pool page.**

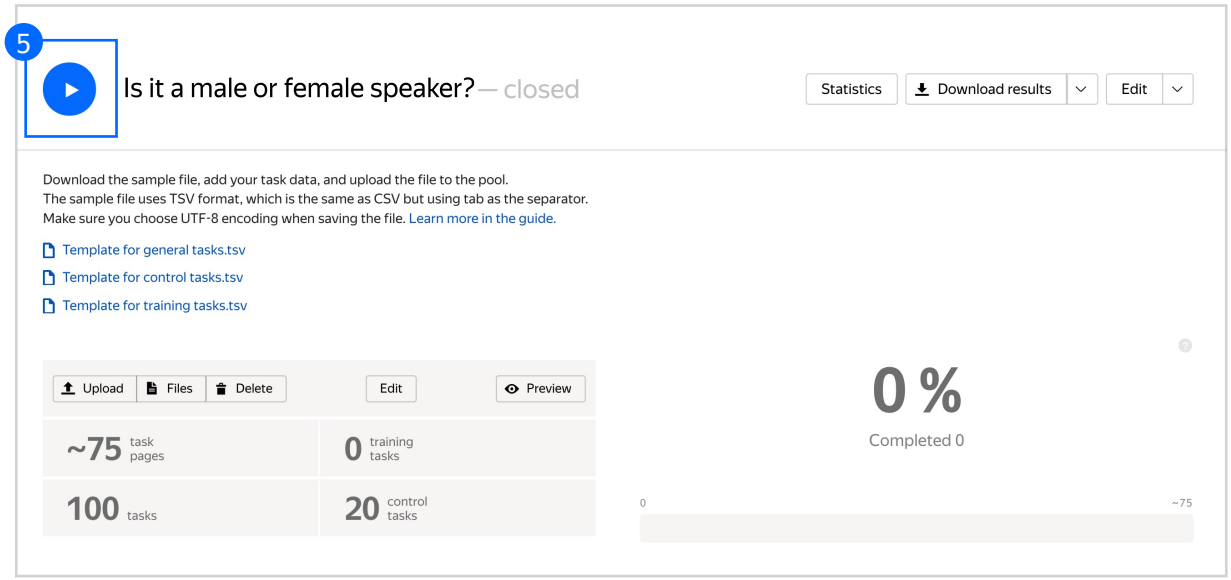


4. Preview the pool.

Note: Remember that the tasks will be completed by actual Tolokers. Double check that everything is correct with your project configuration.



5. Start the pool.



Receiving responses

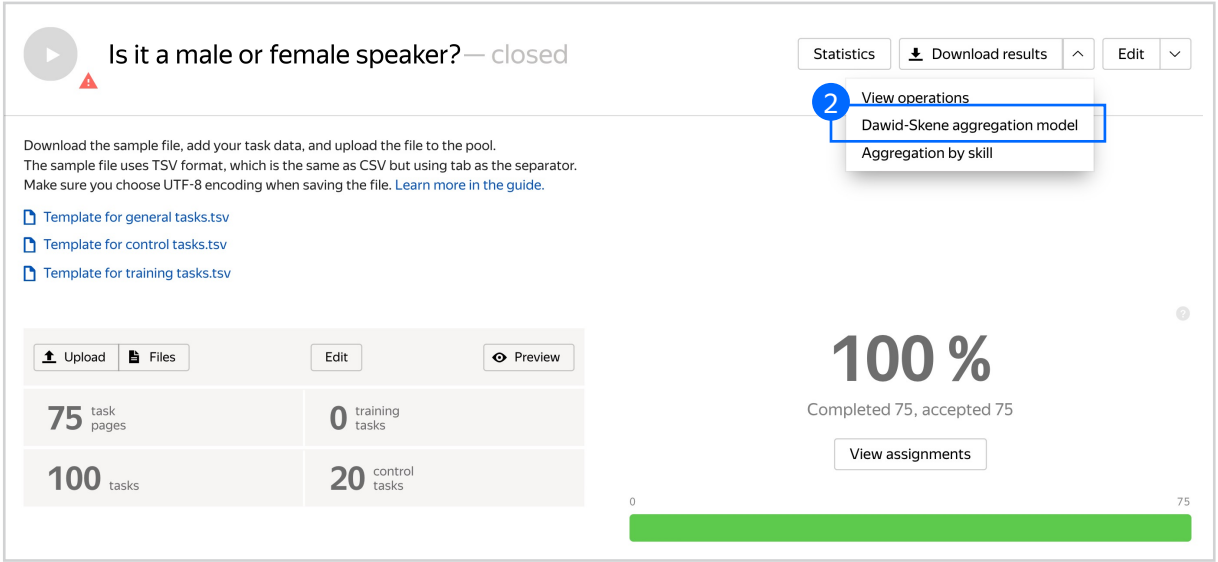
1. Wait until the pool is completed. Refresh the pool page to check progress.

Note: Aggregation takes from 5 to 20 minutes. During this time, you can start configuring your next project. Refresh the Operations page to check progress.

2. Click the **Download results** button and run aggregation using the Dawid-Skene model.

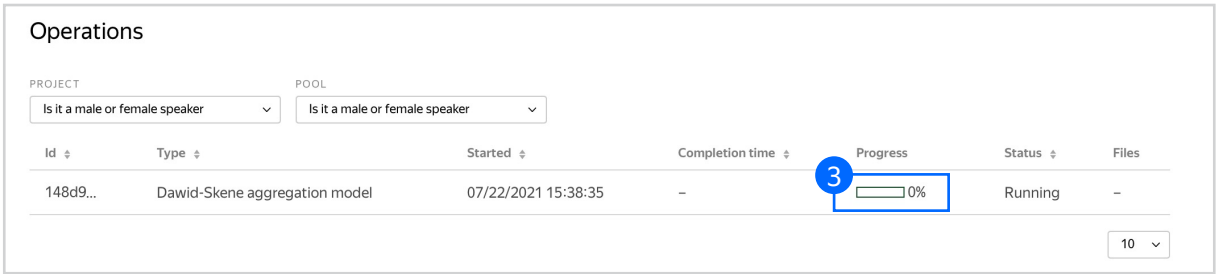
   We use this aggregation model because our questions are of comparable difficulty, and we don't have many control tasks.

   Read more about the Dawid-Skene model in the Requester's Guide or get at an overview of different aggregation models our Knowledge Base.

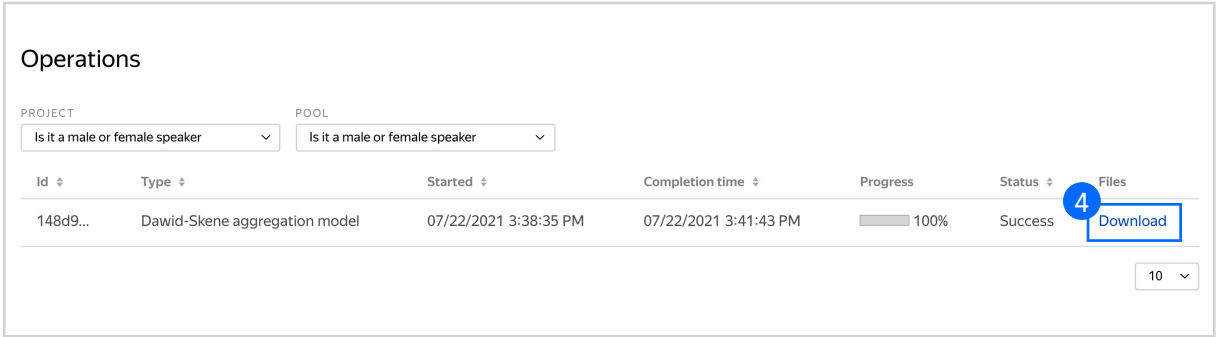


3. Go to the list of operations and wait until aggregation is complete.

   Refresh the **Operations** page to check progress.



4. When aggregation is complete, download the TSV file with the results.



Appendix

Interface code
Step 4.1.

```
{
"view": {
"type": "view.list",
"items": [
{
"type": "view.audio",
"url": {
"type": "data.input",
"path": "path"
},
"validation": {
"type": "condition.played",
"hint": "you need to listen to the audio"
}
},
{
"type": "field.button-radio-group",
"label": "Is it a male or female speaker?",
"options": [
{
"label": "Female",
"value": "female"
},
{
"label": "Male",
"value": "male"
}
],
"data": {
"type": "data.output",
"path": "result"
},
"validation": {
"type": "condition.required"
}
}
]
},
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"type": "plugin.toloka",
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"kind": "scroll",
"taskWidth": 300
}
},
{
"1": {
"type": "action.set",
"data": {
"type": "data.output",
"path": "result"
},
"payload": "female"
},
"2": {
"type": "action.set",
"data": {
"type": "data.output",
"path": "result"
},
"payload": "male"
},
"type": "plugin.hotkeys"
}
]
}
```