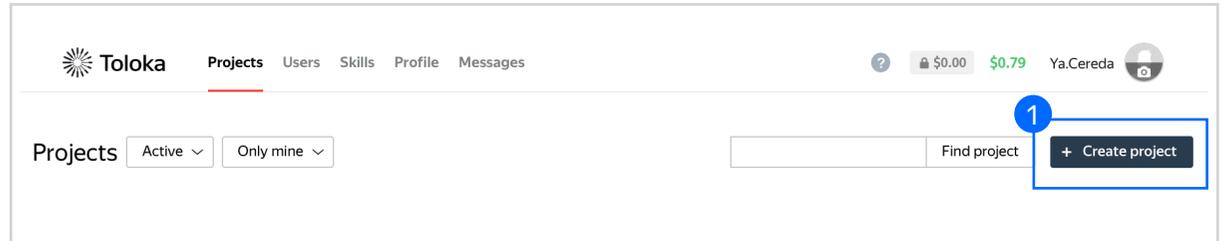




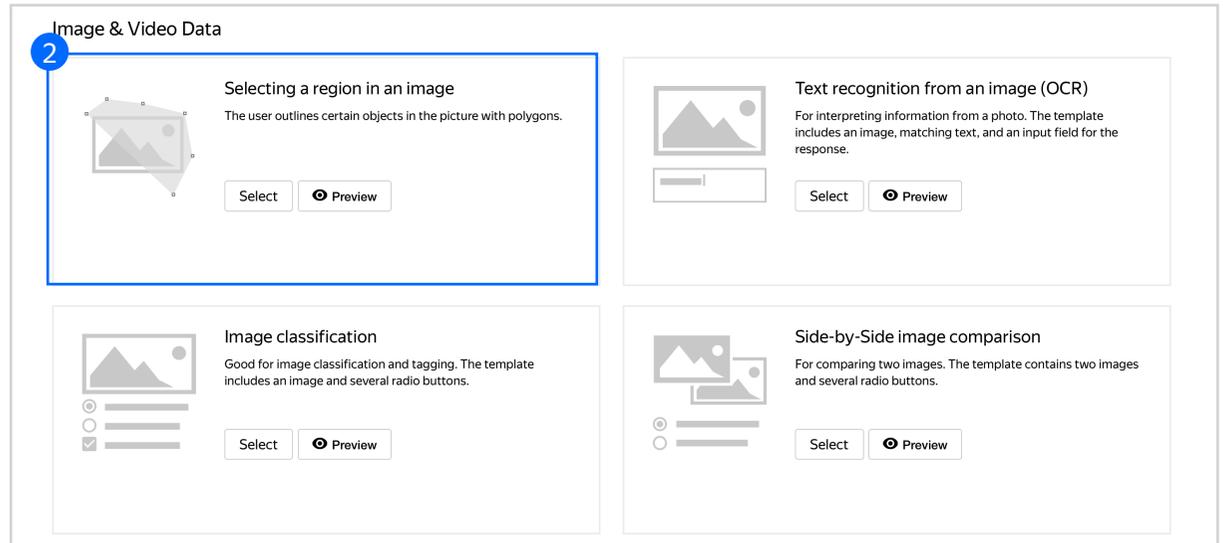
Object detection manual

Create a project

1. Click + **Create project**

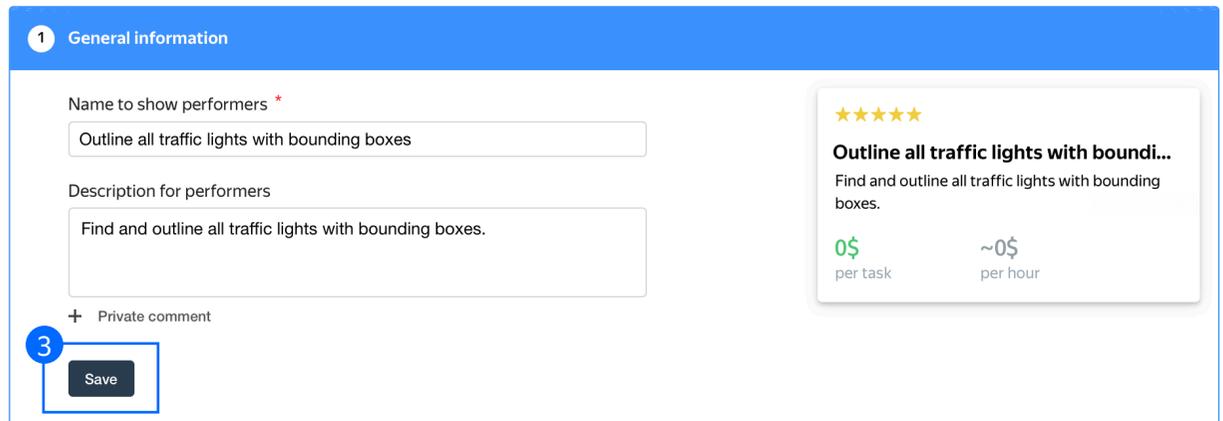


2. Choose the **Selecting a region in an image** in an image template

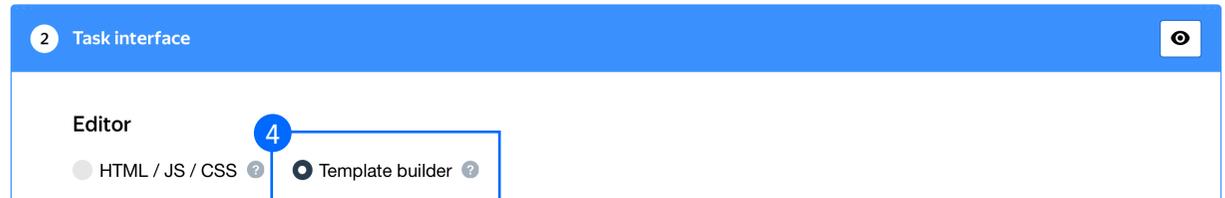


3. Enter a clear project name and description. Click **Save**

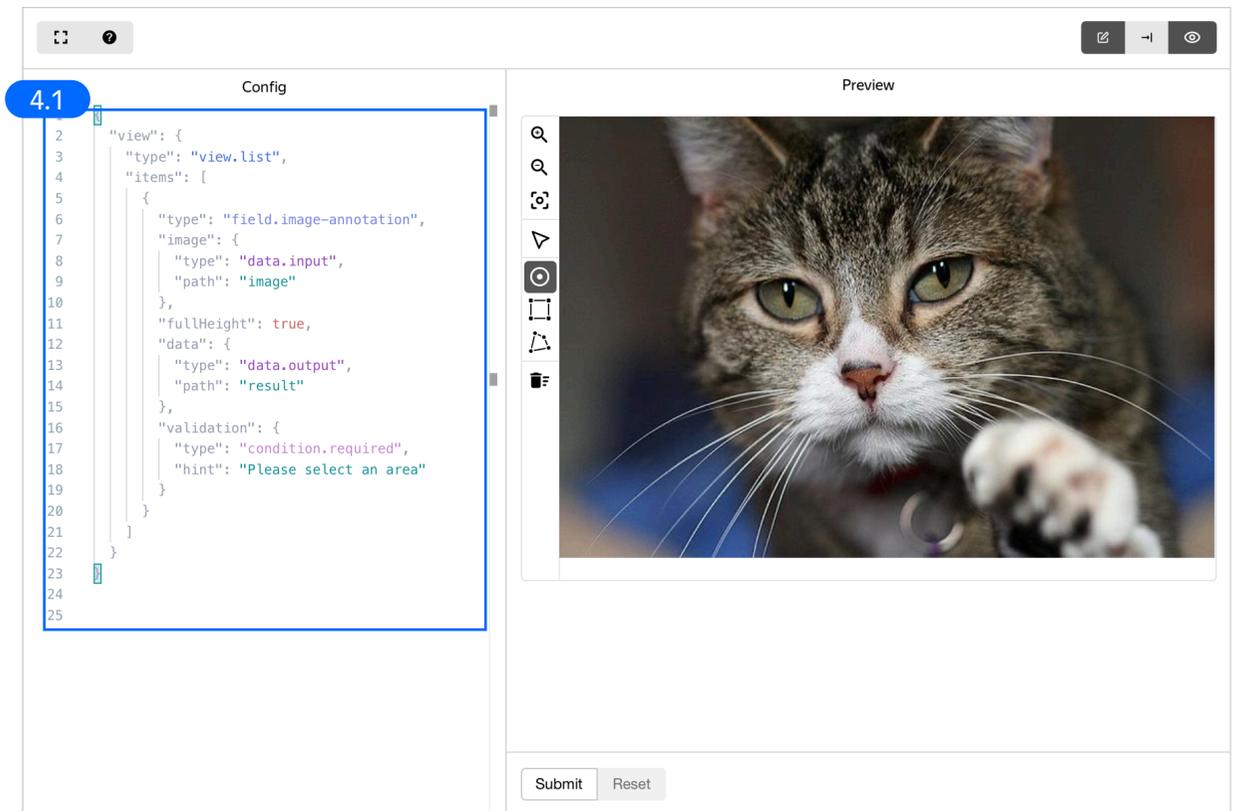
Note: The project will be visible to others



4. Make sure **Template builder** is chosen



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



- Write short and simple instructions. Click **Save**

Note: Make sure to add some examples

3 Instructions for performers

When a performer selects a task, they first see the instructions that you wrote. Describe what needs to be done and give examples. You can prepare your instructions in HTML format, then copy and paste them into the editor. Press < > to switch to HTML mode. To learn more, see the [documentation](#).



Outline **each** traffic light with a separate bounding box (rectangle).

Examples with correct traffic lights bounding:



5 Save

- Fill in “Name and description” and “Instructions” in the **Translations** block for each language that you want performers to see. If you leave these fields empty, the language is inactive. Click **Save**

4 Translations

Performers from different countries will understand the task better if the instructions and all descriptions are in their native language. Fill in “Name and description” and “Instructions” for each language that you want performers to see. If you leave these empty, the language is inactive.

Source language

—

Translations

Language	Name and description for performers	Instructions for performers
✓ Source	✓	✓

Add translation

6 Save

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

Edit project

[Back to the old interface](#)

- ✓ General information
- ✓ Task interface
- ✓ Instructions for performers
- ✓ Translations

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

Outline all traffic lights with bounding boxes — active Project actions ▾

Statistics for 7 days

Submitted tasks	Spent	Quality: control tasks	Quality: training tasks	Average submit time	Users	Banned users
0	0\$	-	-	-	0	0

Pool creation

1. Click **Add a pool**

Outline all traffic lights with bounding boxes — active Project actions ▾

Statistics for 7 days

Submitted tasks	Spent	Quality: control tasks	Quality: training tasks	Average submit time	Users	Banned users
0	0\$	-	-	-	0	0

Pools Training Statistics Quality control

Active and closed Archived Filters Search

1 **Add a pool**

Pools can be archived manually or automatically (automatic archiving applies to pools with no activity for 30 days).

Title ↕	Priority ↕	Progress	Status ↕	Started ↕	To be completed
---------	------------	----------	----------	-----------	-----------------

To launch a project, you first need to add a pool, set user filters and quality control rules, and upload tasks.

50 ▾

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

2

POOL NAME (VISIBLE ONLY TO YOU) ? Outline all traffic lights with bounding boxes

Use project description

PUBLIC DESCRIPTION ? Find and outline all traffic lights with bounding boxes.

Add a private description

3. Specify [pool parameters](#):

3.1. Set a pool type. Choose **Other**

3

POOL TYPE ? Other

Exam

Training

3.1 Retry

Other

PRICE IN US DOLLARS ?

FEE ? 0.014

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

Price per task suite

Each task suite can have one or multiple tasks on the same page. Enter the total price for all tasks in the suite.

3.2

PRICE IN US DOLLARS ? 0.01

FEE ? 0.005

+ Dynamic pricing

3.3. [Filter](#) performers who can access the task. Choose “No” in **Adult content**. Click **Add filter** to choose the **Languages** option in the list

Performers [Copy settings from...](#)

Filter performers who can access the task. Toloka has users from different countries, so don't forget to filter by language and region. [Learn more](#)

ADULT CONTENT ? No

Add filter Create a skill

OS major version
OS minor version
OS versions
Performer rating
Region by IP
Region by phone number
Type of client application
User agent minor version

Performer profile

Adult content
Citizenship
City
Country
Date of birth
Education
Gender
Languages
Verified

Skills
My skills
Add filter

3.4. Select English-speaking performers using the **Language = English** filter

Performers [Copy settings from...](#)

Filter performers who can access the task. Toloka has users from different countries, so don't forget to filter by language and region. [Learn more](#)

ADULT CONTENT ? No

Add filter Create a skill

3.4

PERFORMER PROFILE

Languages = English

- 3.5. Click **Add filter** to choose the **Client** option in the list.
Make sure the task is displayed only to PC users: use the **Client=Toloka web version** filter

3.5

PERFORMER PROFILE

Languages = English

AND

CALCULATED DATA

Client = Toloka web version

Calculated data

- Browser
- Bugfix version of the operating system.
- Client**
- Client application bugfix version
- Client application major version
- Client application versions
- Device type
- Operating system
- OS major version
- OS minor version
- OS versions
- Performer rating
- Region by IP
- Region by phone number
- Type of client application

- 3.6. Add a new skill. It will be assigned to users after they complete the pool tasks. You will use this skill to prevent these users from checking tasks in the next project. Click **Create a skill**

Performers [Copy settings from...](#)

Filter performers who can access the task.
Toloka has users from different countries, so don't forget to filter by language and region. [Learn more](#)

ADULT CONTENT ? No

3.6

Add filter

Create a skill

3.7. Enter the skill name and add a description if needed. You are the only one who will see it. Leave the skill private (as default) and click **Add**

Add skill

TITLE

DESCRIPTION

Public? No ?

Cancel **Add**

3.8. Turn on the **Non-automatic acceptance** option and enter the number of days for checking in the Deadline field (for example, 7)

Quality control

Add rules to get more accurate responses.
All rules work independently.

3.8 NON-AUTOMATIC ACCEPTANCE ? Yes

REVIEW PERIOD IN DAYS

CAPTCHA FREQUENCY ?

3.9. Set up [quality control](#). Click +
Add Quality Control Rule

Quality control
Add rules to get more accurate responses.
All rules work independently.

NON-AUTOMATIC ACCEPTANCE Yes

REVIEW PERIOD IN DAYS

CAPTCHA FREQUENCY

3.9

3.10. In **Processing rejected and accepted assignments**, set up a rule to extend overlap for rejected assignments. This will resend rejected assignments to new performers for completion.

PROCESSING REJECTED AND ACCEPTED ASSIGNMENTS ?

3.10

If +

then X

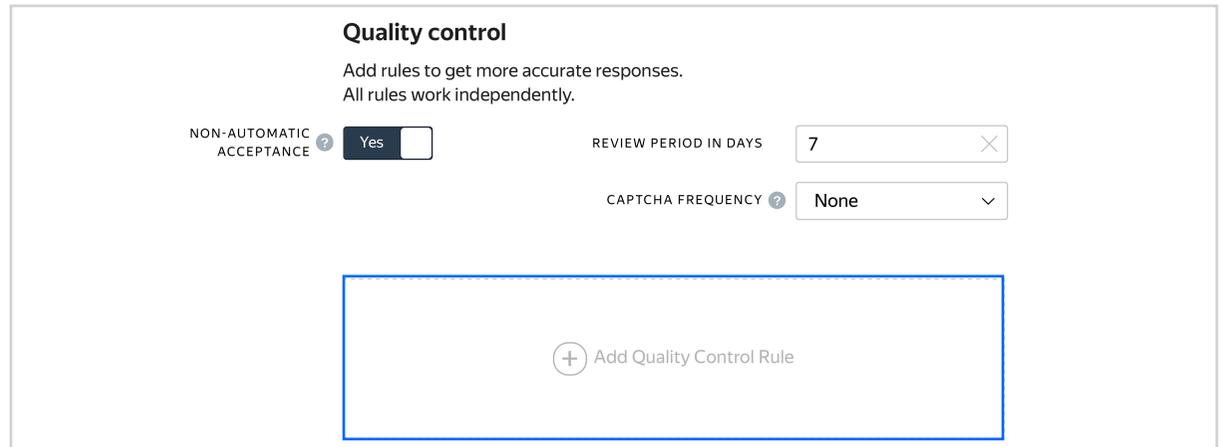
Open pool if closed

3.11. Set up the **Submitted responses** quality control rule to mark users who completed at least one task in the pool. When a person submits 1 or more tasks, they are assigned the skill created in the step above

Tip. If the skill you created doesn't appear in the drop-down list, save the pool, and then open it for editing again

Optionally, add other [quality control rules](#)

Tip. Control tasks and majority vote are not used in this type of project, because responses must exactly match the reference, which is practically impossible for image segmentation



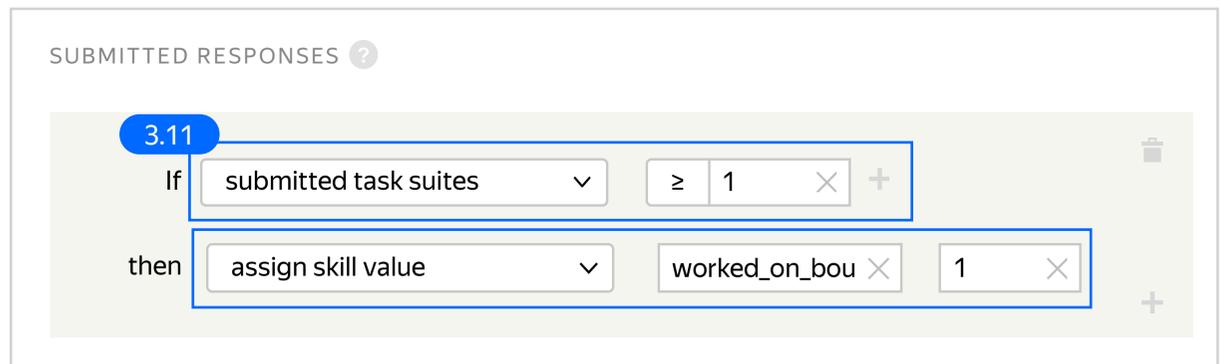
Quality control
Add rules to get more accurate responses.
All rules work independently.

NON-AUTOMATIC ACCEPTANCE Yes

REVIEW PERIOD IN DAYS

CAPTCHA FREQUENCY

[+](#) Add Quality Control Rule



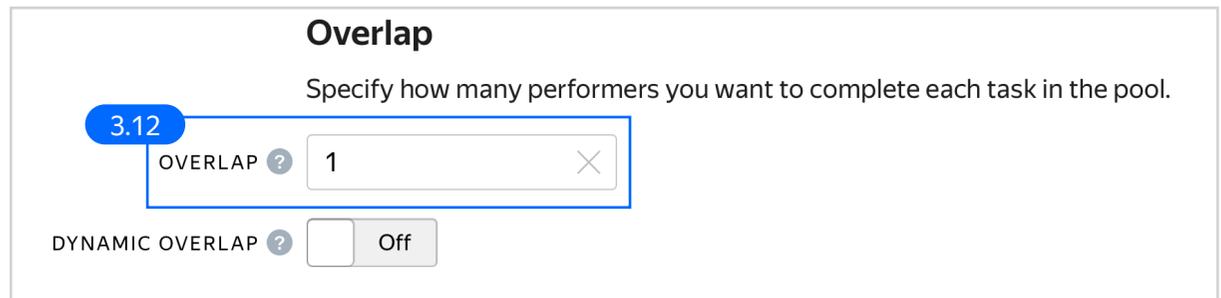
SUBMITTED RESPONSES

3.11

If submitted task suites \geq 1

then assign skill value worked_on_bou 1

3.12. Overlap. This is the number of users who will complete the same task. As everyone will be outlining your traffic lights in their own unique way we will show each photo to only one performer



Overlap
Specify how many performers you want to complete each task in the pool.

3.12

OVERLAP

DYNAMIC OVERLAP Off

3.13. Optionally adjust [Speed/quality balance](#) with the percentage of top-rated performers to use

Note: This can slow down pool completion

Speed/quality balance

Set additional filters to restrict performer access based on their rating in Toloka. This boosts quality but may slow down project completion because there will be fewer performers available to complete tasks. [Learn more...](#)

Top% Online Time

Specify the percentage of top-rated active users who can access tasks in the pool.

3.13

4747 Speed All 90% 80% 70% 60% 50% 40% 30% 20% 10% 2373 Quality

50% top-rated performers were selected.
The task is available to 2373 active users.

3.14. Time given to complete a task suite (for example, 300 seconds)

Parameters

3.14

TIME PER TASK SUITE IN SECONDS ? 300

POOL CLOSING DATE ? 2022-06-15

KEEP TASK ORDER ? No

WAITING TIME FOR THE POOL TO CLOSE IN SECONDS ? 0

POOL PRIORITY WITHIN THE PROJECT ? 0

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

Parameters

TIME PER TASK SUITE IN SECONDS ? 300

POOL CLOSING DATE ? 2022-06-15

KEEP TASK ORDER ? No

WAITING TIME FOR THE POOL TO CLOSE IN SECONDS ? 0

POOL PRIORITY WITHIN THE PROJECT ? 0

4

Cancel Save

Prepare and upload a file with tasks

1. Prepare a TSV file with tasks as shown in our [example](#).
License: CC BY 4.0
2. Upload pool tasks from this file

- 2.1. Go to **File upload settings** and choose [Set manually](#). Set **Tasks per page** to 1. Click **Upload**

Outline all traffic lights with bounding boxes — closed

Statistics Download results Edit

Download the sample file, add your task data, and upload the file to the pool.
The sample file uses TSV format, which is the same as CSV but using tab as the separator.
Make sure you choose UTF-8 encoding when saving the file. [Learn more in the guide.](#)

- Template for general tasks.tsv
- Template for control tasks.tsv
- Template for training tasks.tsv

2 Upload Files

0 task pages 0 training tasks

0 tasks 0 control tasks

0 % Completed 0

File upload settings ?

Tasks per page

By empty row Set manually Smart mixing

Tasks per page 1

Sample file for uploading tasks Close Upload

2.1

3. Start the pool

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

3 Outline all traffic lights with bounding boxes — closed

Statistics Download results Edit

Download the sample file, add your task data, and upload the file to the pool.
The sample file uses TSV format, which is the same as CSV but using tab as the separator.
Make sure you choose UTF-8 encoding when saving the file. [Learn more in the guide.](#)

- Template for general tasks.tsv
- Template for control tasks.tsv
- Template for training tasks.tsv

Upload Files Delete Preview

85 task pages	0 training tasks
85 tasks	0 control tasks

0 % Completed 0

0 85

Receiving responses

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

The screenshot shows a task pool interface for the task "Outline all traffic lights with bounding boxes". The pool is closed. The interface includes a play button icon, a warning triangle, and buttons for "Statistics", "Download results", and "Edit". Below this, there is a section for downloading sample files: "Download the sample file, add your task data, and upload the file to the pool. The sample file uses TSV format, which is the same as CSV but using tab as the separator. Make sure you choose UTF-8 encoding when saving the file. [Learn more in the guide.](#)" followed by three links: "Template for general tasks.tsv", "Template for control tasks.tsv", and "Template for training tasks.tsv".

At the bottom, there is an "Upload" button, a "Files" icon, and a "Preview" button. A progress bar shows 100% completion, with "Completed 85" and a "Review assignments 85" button. A table below the progress bar shows the following counts:

85 task pages	0 training tasks
85 tasks	0 control tasks

A progress bar at the bottom right shows 0 to 85.

Since the main quality control method for this kind of task is post-acceptance, you will need to review the tasks after the pool is completed.

You can check the quality of responses and reject and reevaluate incorrect assignments. Performers will get paid only after their assignment is accepted.

There are two ways to review assignments:

- manually
- in a separate Toloka project

Manual review

1. On the pool page, click **Review Assignments**

Outline all traffic lights with bounding boxes — closed

Download the sample file, add your task data, and upload the file to the pool. The sample file uses TSV format, which is the same as CSV but using tab as the separator. Make sure you choose UTF-8 encoding when saving the file. [Learn more in the guide.](#)

- Template for general tasks.tsv
- Template for control tasks.tsv
- Template for training tasks.tsv

Upload Files Preview

85 task pages	0 training tasks
85 tasks	0 control tasks

100 % Completed 85

1 Review assignments 85

2. Click on any response from the list

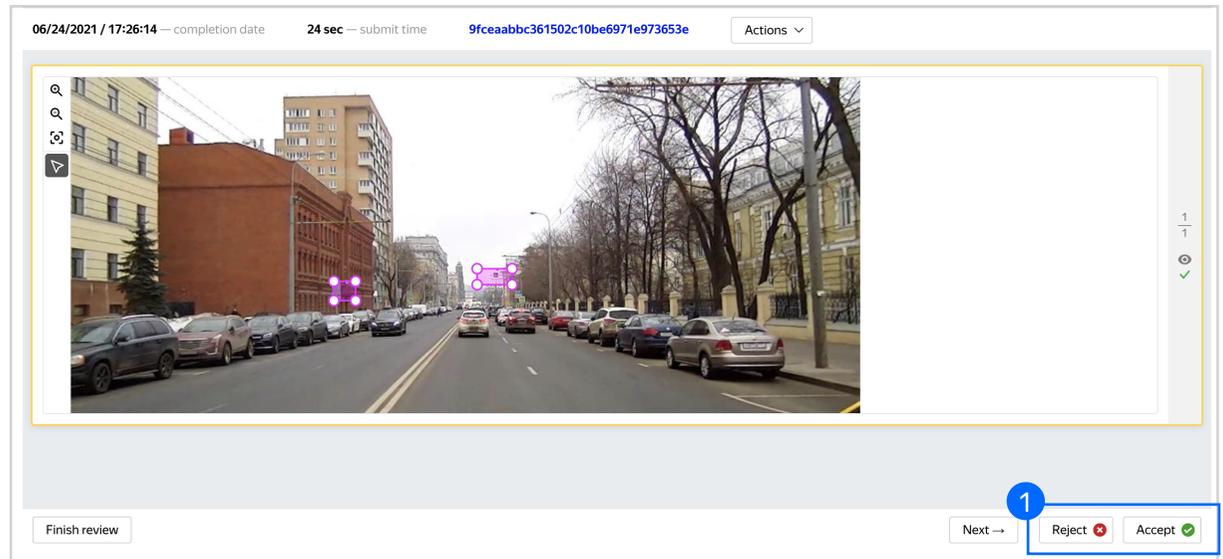
Submitted responses

Download results Upload review results

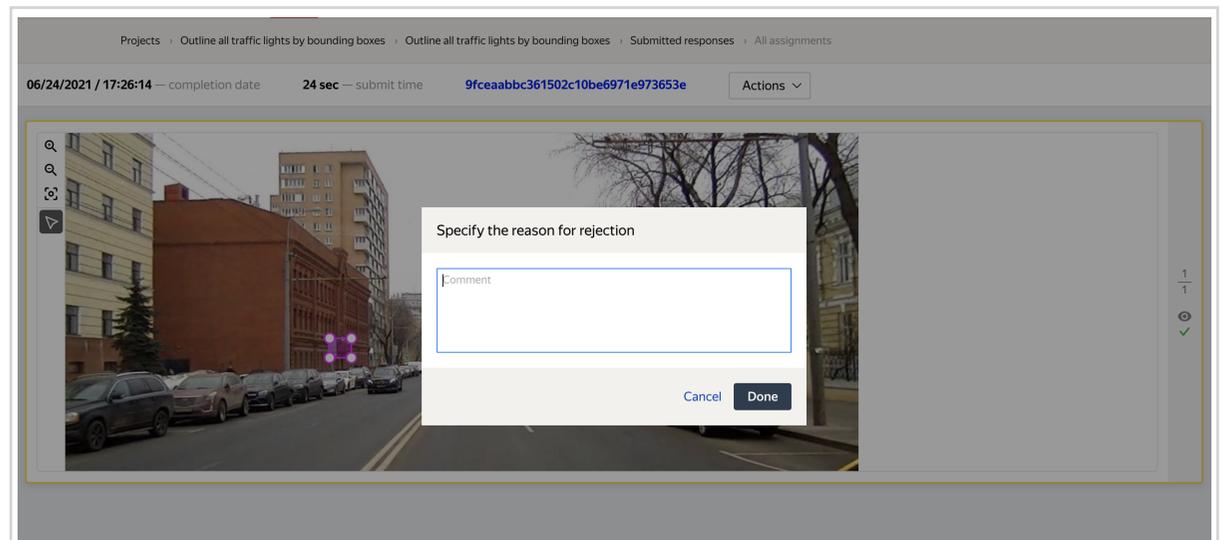
85 Total	85 Submitted	0 Accepted	0 Rejected
----------	--------------	------------	------------

Response	Performer	Completed	Duration	Status
000181cdd9--60d495ed1e72220e2d538001	9fceaabbc361502c10be6971e973653e	06/24/2021 17:26:14	24 sec	—
000181cdd9--60d495fb17885377169ec6aa	53be9740599d49c1f6d38447d200ddd6	06/24/2021 17:26:21	17 sec	—
000181cdd9--60d495f430b47551777ee9a7	b068badd90666351c693d063d8a05800	06/24/2021 17:26:24	28 sec	—
000181cdd9--60d495fb5545935b0adbc281	dde4e6efb58afd6b552996cc6716506	06/24/2021 17:26:30	26 sec	—
000181cdd9--60d495f9ebb4e9026a9975da	1e1349ac83884b69dfa5549747daa739	06/24/2021 17:26:31	29 sec	—
000181cdd9--60d496082748377ee0b81f9e	9fceaabbc361502c10be6971e973653e	06/24/2021 17:26:31	15 sec	—

3. Check if the task is completed correctly. Click **Reject** or **Accept**



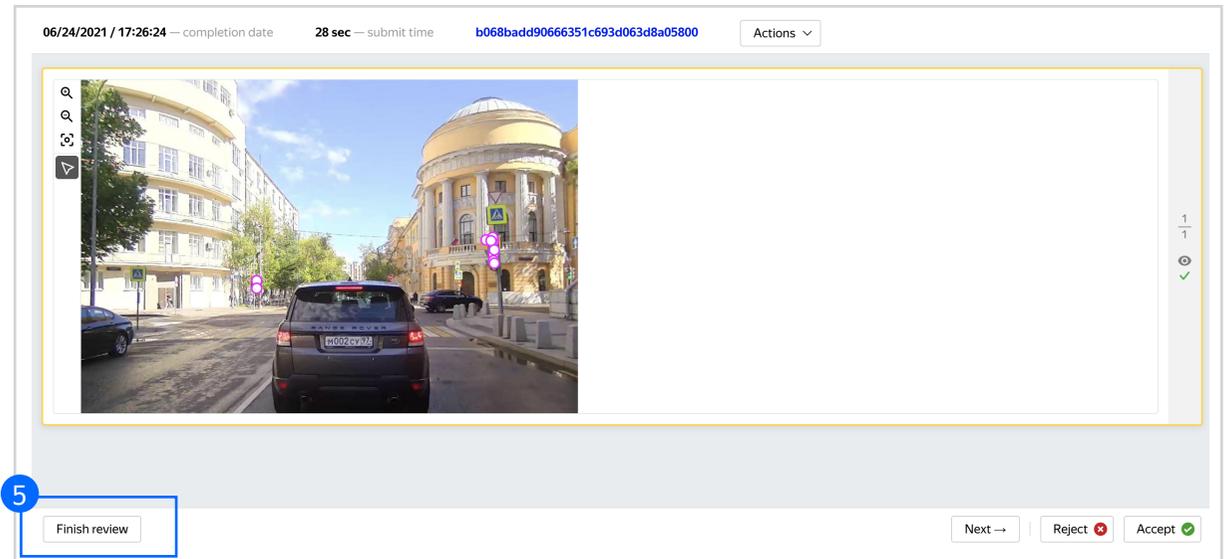
4. If you are rejecting the task, write a comment that explains what was wrong. The performer will see this comment



5. You can pause the review any time by clicking **“Finish review”**

Make sure to complete the review within the timeframe specified in the pool (see Step 5 in Pool Creation)

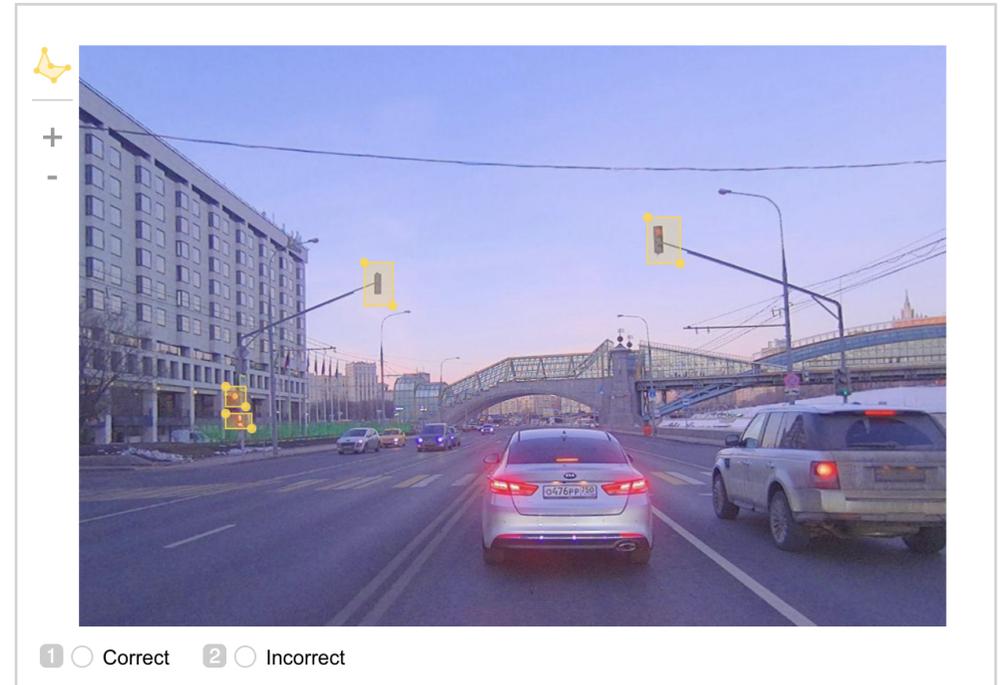
When the time expires, all unreviewed tasks will be accepted automatically



Automated review

Another way to review tasks is to ask other performers to do that. We recommend this option when you have limited resources for checking tasks yourself

1. Create a simple **binary classification project** based on our demo. Ask the performers if the bounding boxes are correct



2. After the answers are collected, go back to the initial pool and upload review results on the **Review assignments** page. The file should contain the acceptance verdict and a comment. A template can be found in the Download results section

Projects > Outline all traffic lights by bounding boxes > Outline all traffic lights by bounding boxes > Submitted responses

Submitted responses Download results Upload review results

85 Total	85 Submitted	0 Accepted	0 Rejected
-------------	-----------------	---------------	---------------

Appendix

Interface code

Step 4.1.

```
{
  "view": {
    "type": "view.list",
    "items": [
      {
        "type": "field.image-annotation",
        "image": {
          "type": "data.input",
          "path": "image"
        },
        "fullHeight": true,
        "data": {
          "type": "data.output",
          "path": "result"
        },
        "validation": {
          "type": "condition.required",
          "hint": "Please select an area"
        }
      }
    ]
  }
}
```