Toloka

Object detection manual

Create a project

1. Click **Create project.**

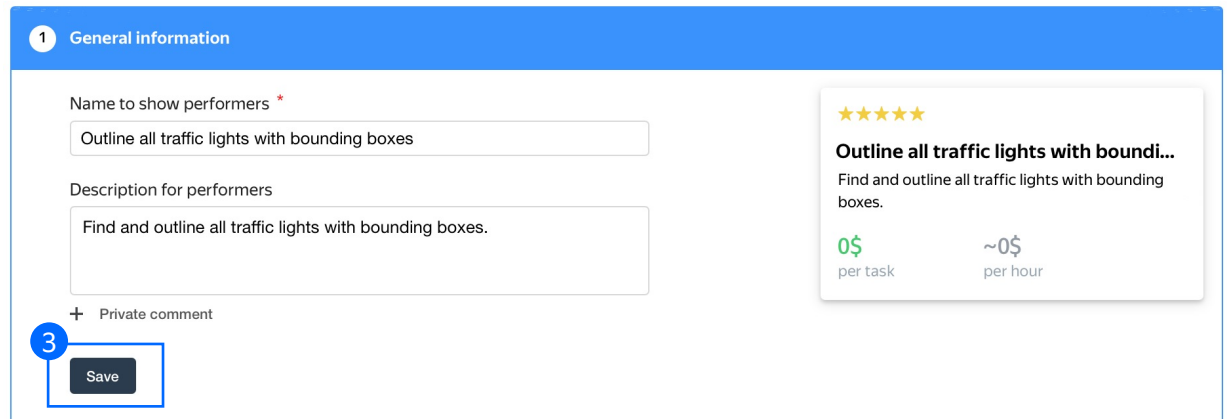**Toloka** Projects Users Skills Profile Messages   ? 🔒 $0.00 $0.79 Ya.Cereda

1

Projects [Active ▾] [Only mine ▾]   [Find project] [＋ Create project]

Image & Video Data

2

Selecting a region in an image
The user outlines certain objects in the picture with polygons.

Select   👁 Preview

Text recognition from an image (OCR)
For interpreting information from a photo. The template includes an image, matching text, and an input field for the response.

Select   👁 Preview

Image classification
Good for image classification and tagging. The template includes an image and several radio buttons.

Select   👁 Preview

Side-by-Side image comparison
For comparing two images. The template contains two images and several radio buttons.

Select   👁 Preview

2. Choose the **Selecting a region in an image** template.
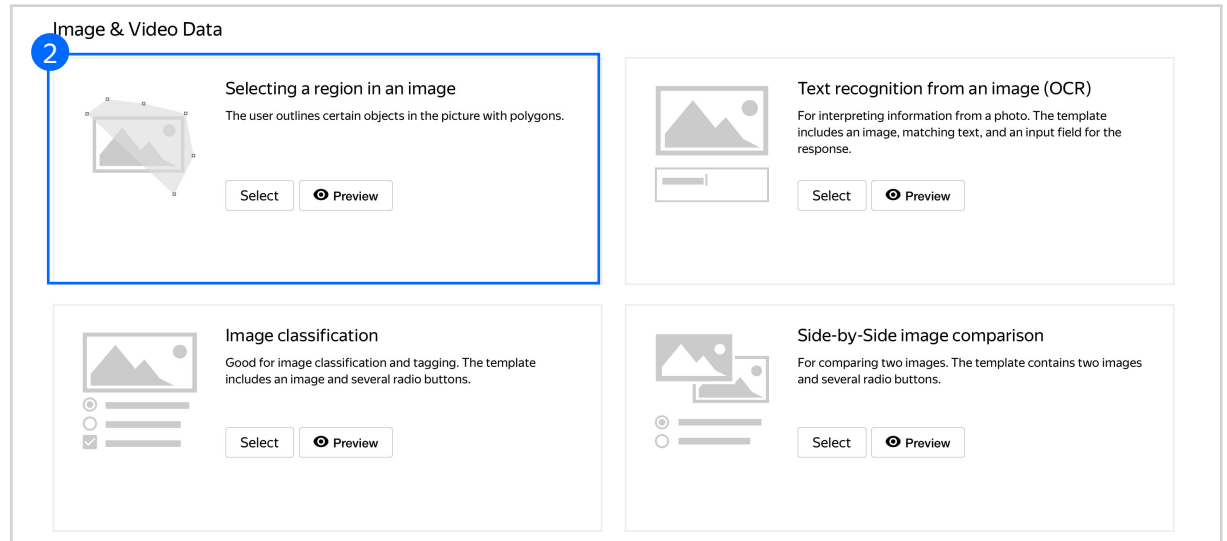
3. Enter a clear project name and description. Click **Save.**

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

1 **General information**

Name to show performers *
[Outline all traffic lights with bounding boxes]

Description for performers
[Find and outline all traffic lights with bounding boxes.]

＋ Private comment

3 [Save]

★★★★★

Outline all traffic lights with boundi...
Find and outline all traffic lights with bounding boxes.
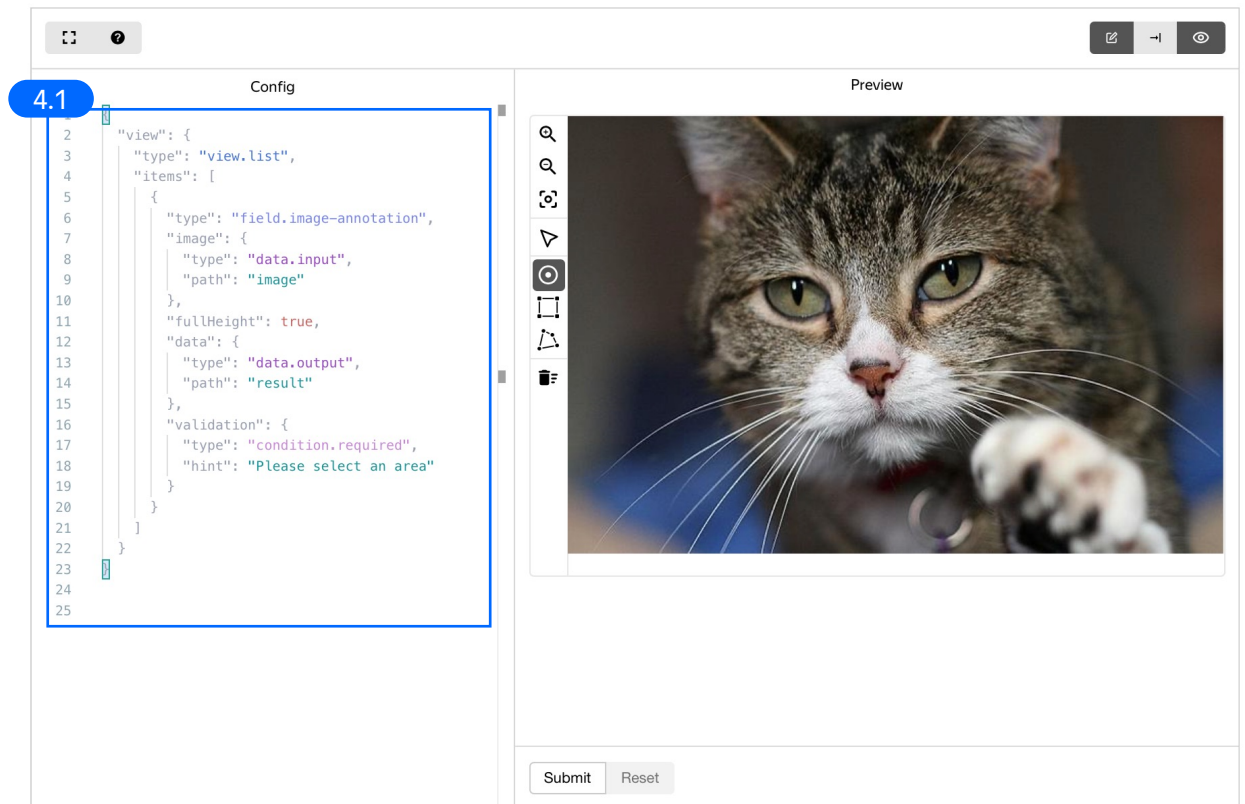
0$ ~0$
per task   per hour

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

Read more about the [Template Builder](#) in the Requester's Guide.
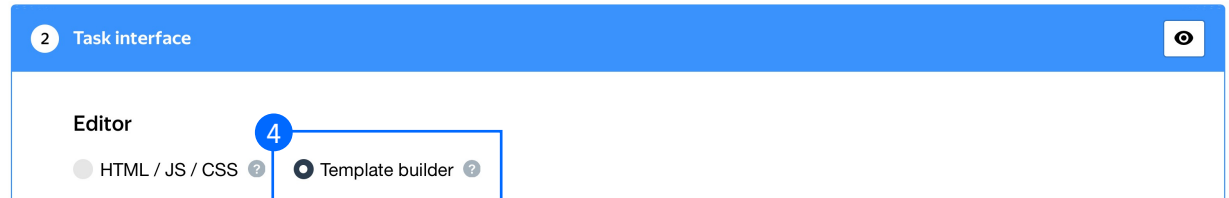
4.1. Delete the existing config and paste the code provided at the end of this manual (in the appendix).

Check the [Interfaces section](#) of our Knowledge Base for more tips on interface design.

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

   Note: Make sure to add some examples.

   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.

Edit project

Cancel **Finish**

✅ 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.**

   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).

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

POOL TYPE ? | Other ⌃

—
Exam
Training
Retry
✓ Other

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

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

3.1

e or multiple tasks on the same page. Enter the total e.

PRICE IN US DOLLARS ? | FEE ? 0.014

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

Read more about pricing principles in our Knowledge Base.

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

3.3

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 **Languages = 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.

Add filter

Create a skill

PERFORMER PROFILE

Languages = English

AND

3.5

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.**

Read more about skills in the Requester's Guide.

Add skill

TITLE

worked_on_bounding

DESCRIPTION

Public?   No

3.7

Cancel   Add

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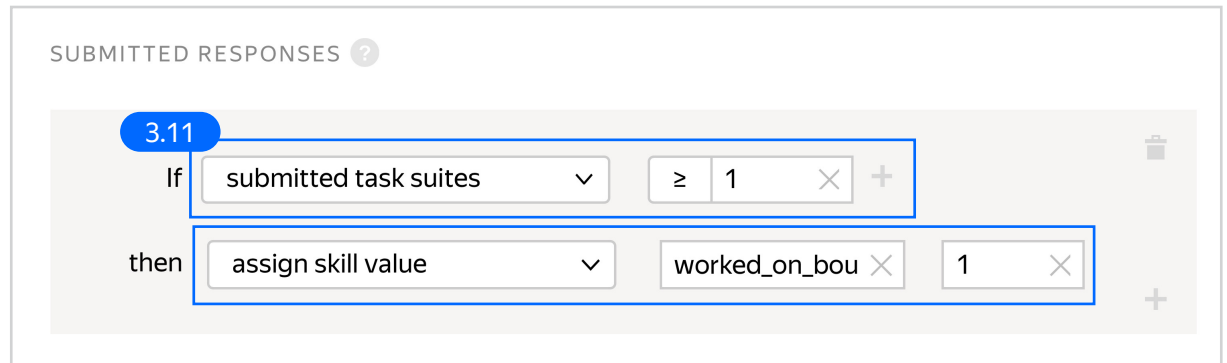
Quality control

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

3.8

NON-AUTOMATIC ACCEPTANCE   Yes
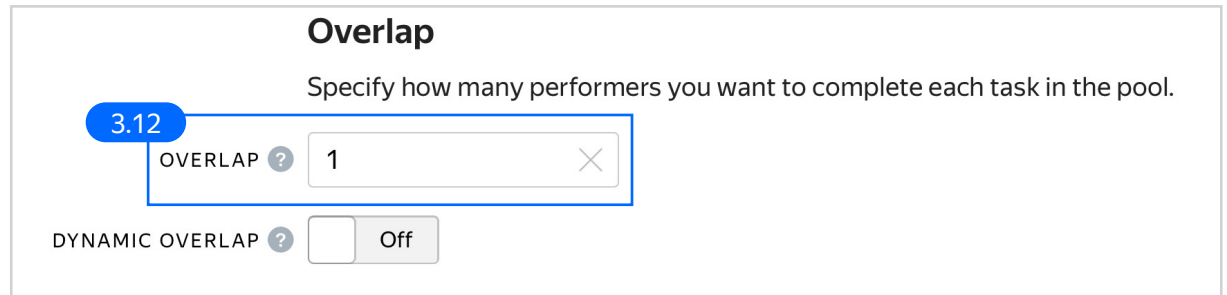
REVIEW PERIOD IN DAYS   7

CAPTCHA FREQUENCY   None

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 | 7

CAPTCHA FREQUENCY ? | None

3.9

⊕ Add Quality Control Rule

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 | assignment becomes | rejected ⌄ | +

then | extend overlap by | 1
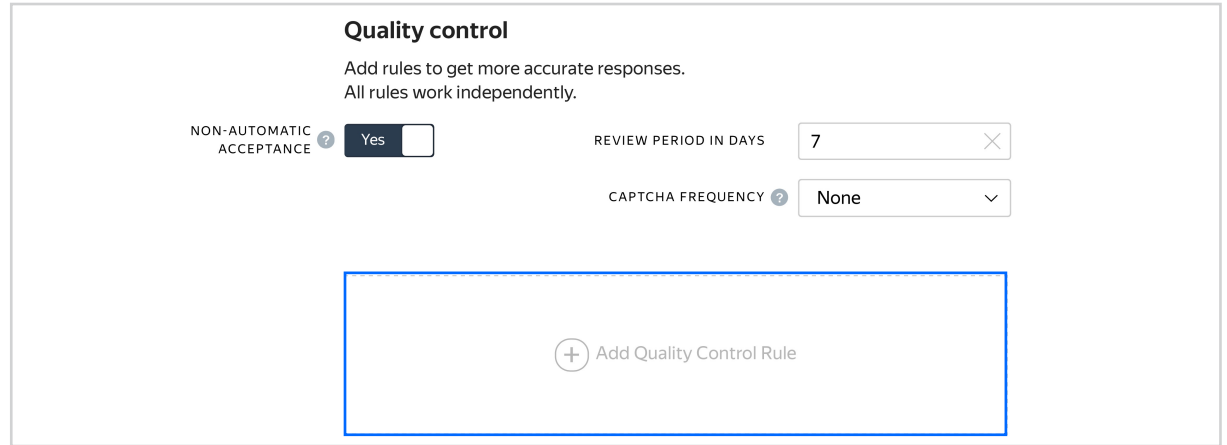
☑ Open pool if closed

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.

Note: 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.

Note: 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 | 7 ✕

CAPTCHA FREQUENCY ❓ | None ⌄

⊕ Add Quality Control Rule

SUBMITTED RESPONSES ❓

3.11

If | submitted task suites ⌄ | ≥ | 1 ✕ ⊕

then | assign skill value ⌄ | worked_on_bou ✕ | 1 ✕

3.12. Overlap. This is the number of performers 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 ❓ | 1 ✕

DYNAMIC OVERLAP ❓ | Off

3.13. Optionally, specify the percentage of top-rated performers in the [Speed / quality balance](#).

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.

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

✳ Toloka

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. Select Set manually in **File upload settings** . Set **Tasks per page** to 1. Click **Upload.**

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.
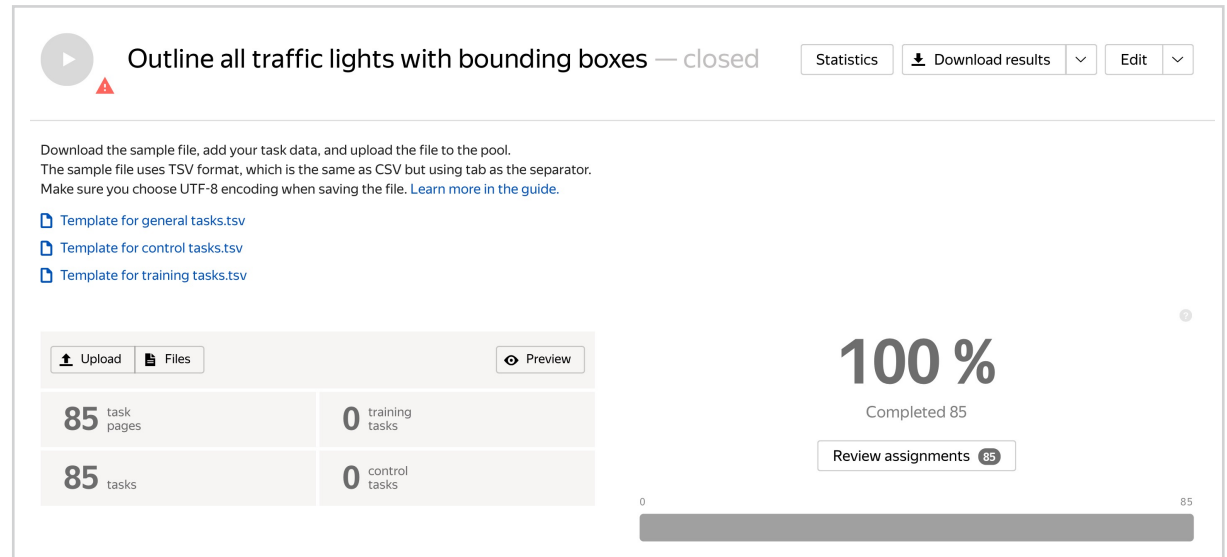
Outline all traffic lights with bounding boxes — closed

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.

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.**

2. Click on any response from the list.

3. Check if the task is completed correctly. Click **Reject** or **Accept.**
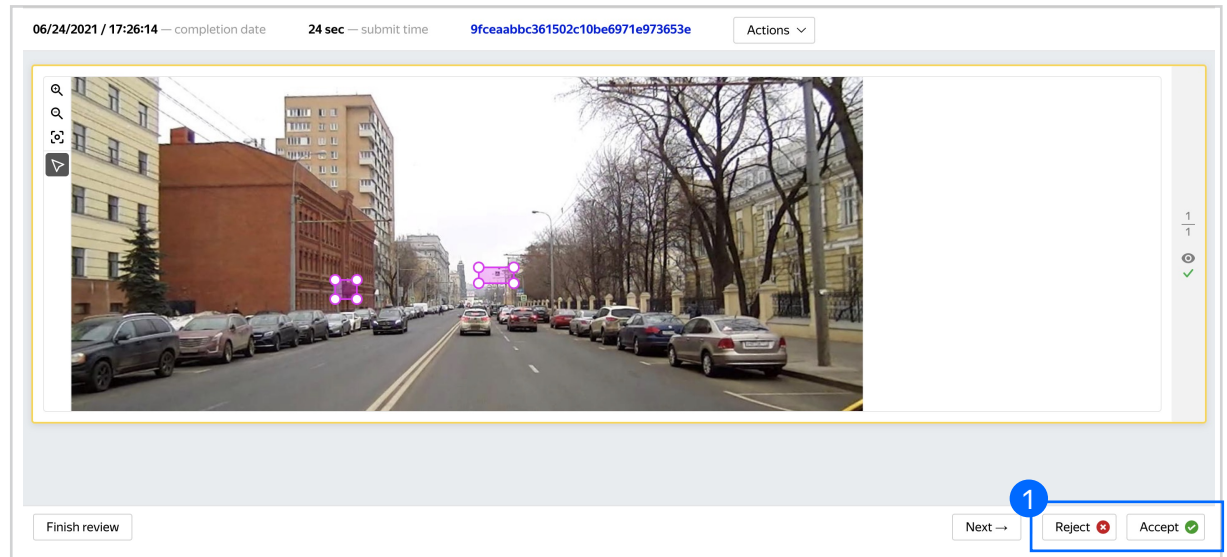
4. If you are rejecting the task, write a comment that explains what was wrong. The performer will see this comment.
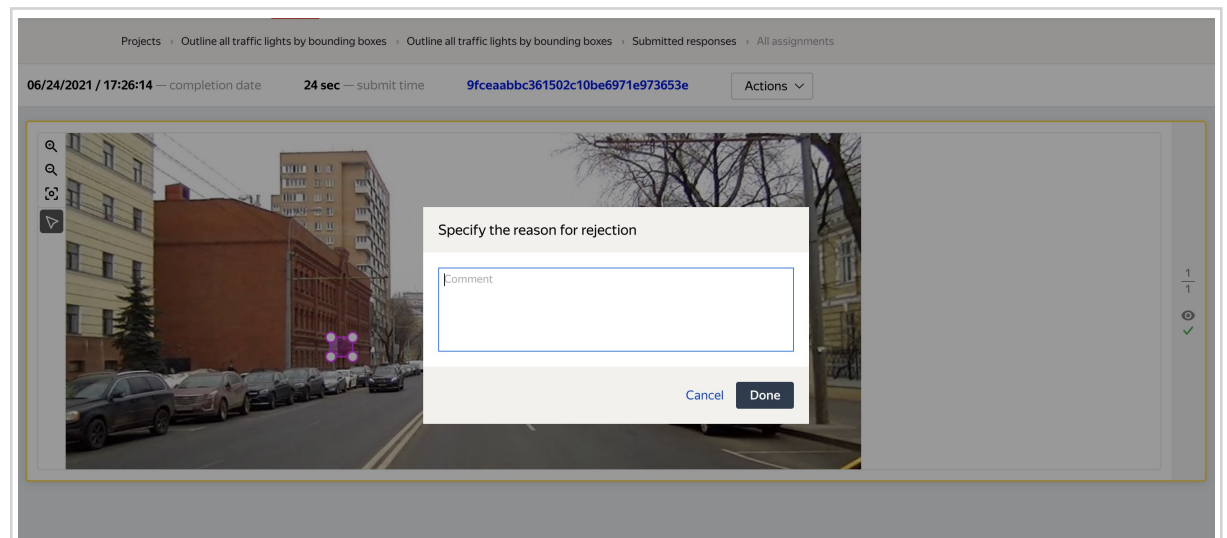
5. You can pause the review any time by clicking **"Finish review".**

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.
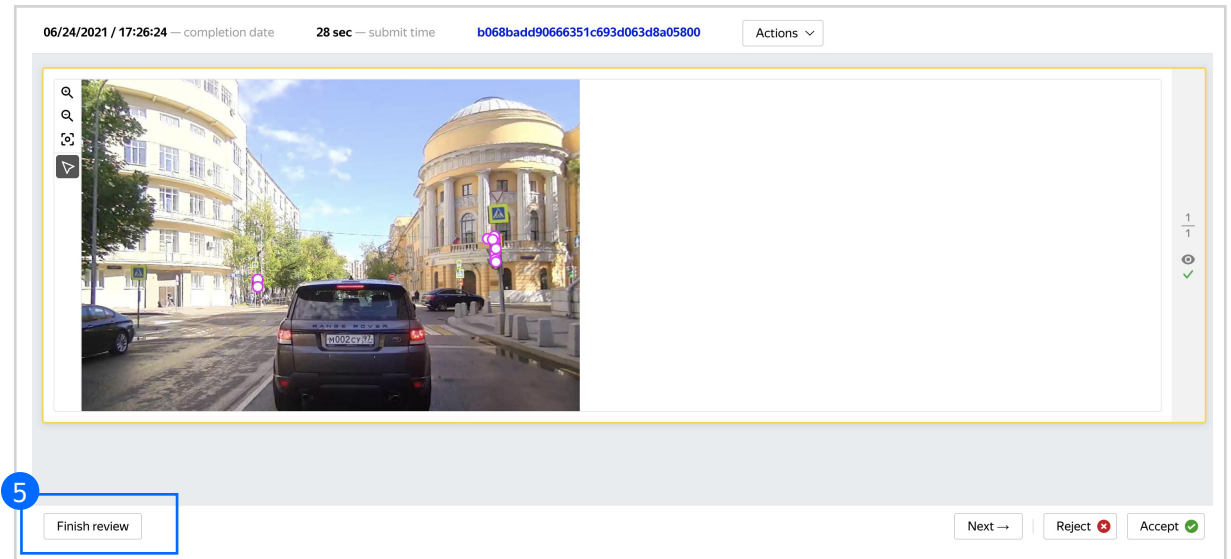
Automated review

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 [Binary Classification demo](#). Ask the performers whether the task has been completed correctly.
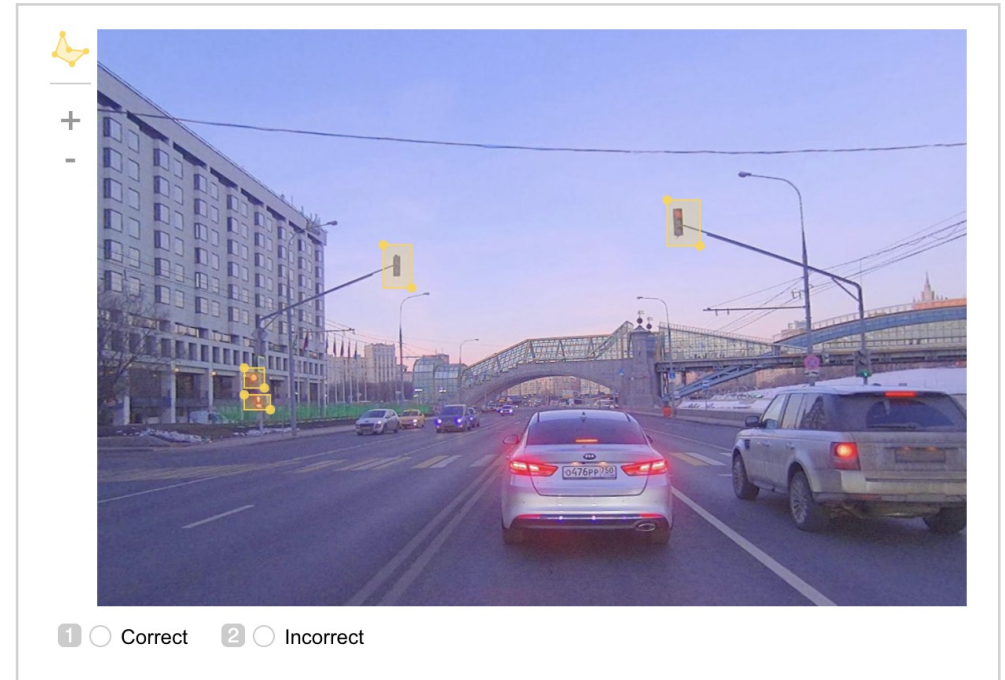
2. After the answers are collected, go back to the initial pool and upload review results on the **Review assignments** page. The file should contain the acceptance verdict and a comment. A template can be found in the Download results section.

Appendix

Interface code
Step 4.1.

```json
{
"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"
}
}
]
}
}
```