# Annotation Tool
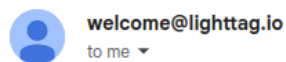
The LightTag tool will be used for annotation. Detailed instructions for using this tool are provided below.

## Registration

Anotators will receive an invitation to annotate via email (Figure 1).



Figure 1. Annotation invitation

Clicking the link in the text (the word **this**) leads to the registration page, where it is necessary to enter and confirm the password. After successful registration, the annotator will see the annotation page, shown in Figure 2.
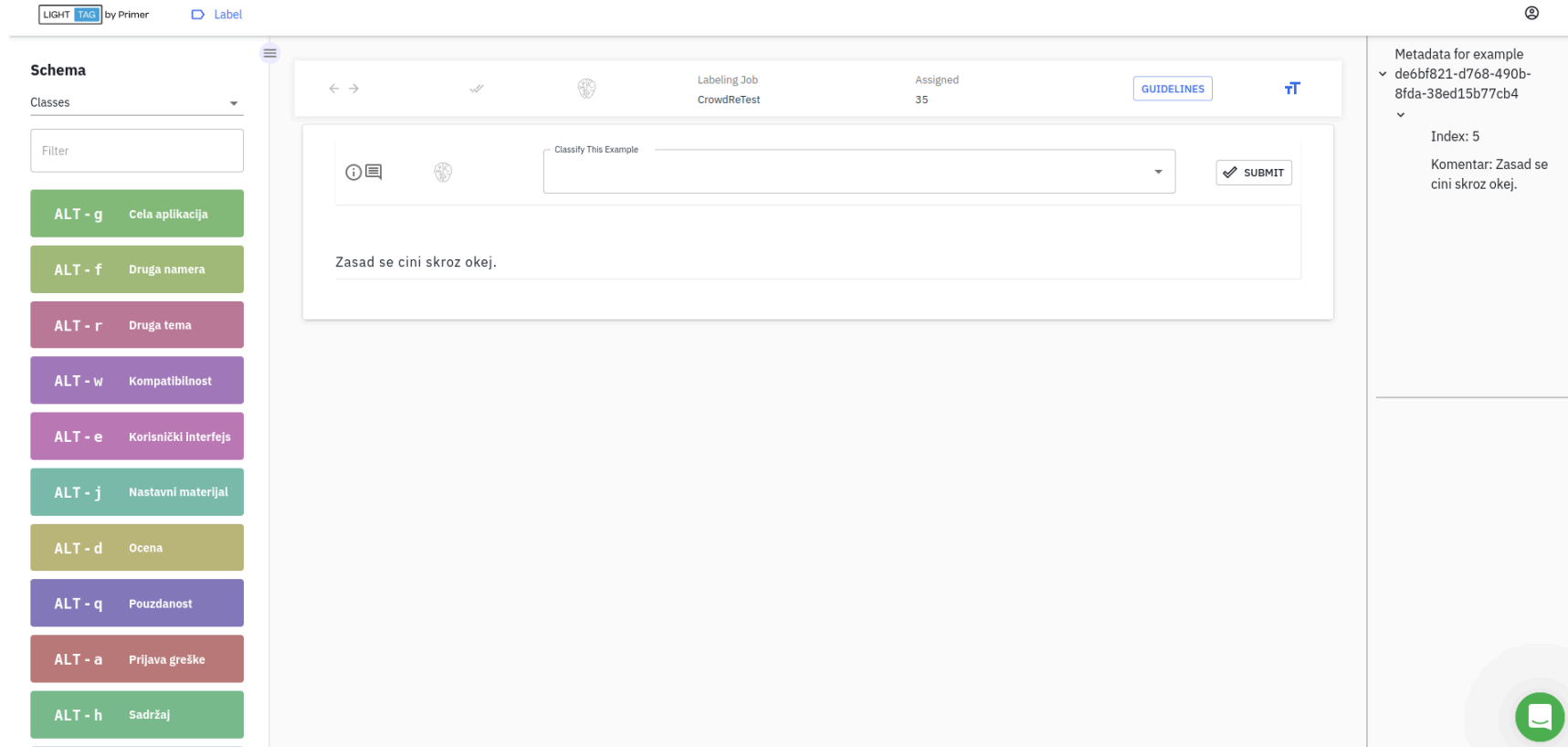
# Tool layout



Figure 2. Annotation page layout

On the **left** side of the page, in the **Schema** section, attribute values are available as cards:
- For the problem of aspect-based emotion detection from text, there are attribute values for **Aspect** and **Emotion**
- For the problem of crowd requirements engineering, there are attribute values for **Intention** and **Topic**.

In addition to the attribute names, the cards also contain a keyboard shortcut for assigning that attribute to the text. The cards can be searched using the **Filter** text field.

In the **central** part of the page, the sentence currently being annotated is displayed, along with actions related to the annotation process. You can navigate through sentences in the dataset by clicking ← → , while the font size can be changed by clicking ┰ .

In the **upper right** part of the page, metadata is displayed, i.e., the index of the sentence in the dataset and the entire comment in which the currently annotated sentence is located. The same metadata can be displayed in a modal dialog by clicking the button ⓘ .

# Annotation

Annotation is performed by selecting attributes for the displayed sentence in one of the following ways:
1. By clicking on the cards on the left side of the window
2. By using keyboard shortcuts for certain cards
3. Selecting values from the **Classify This Example** dropdown menu located above the displayed sentence.

After annotation, the selected values will be found within **Classify This Example**, as shown in Figure 3.
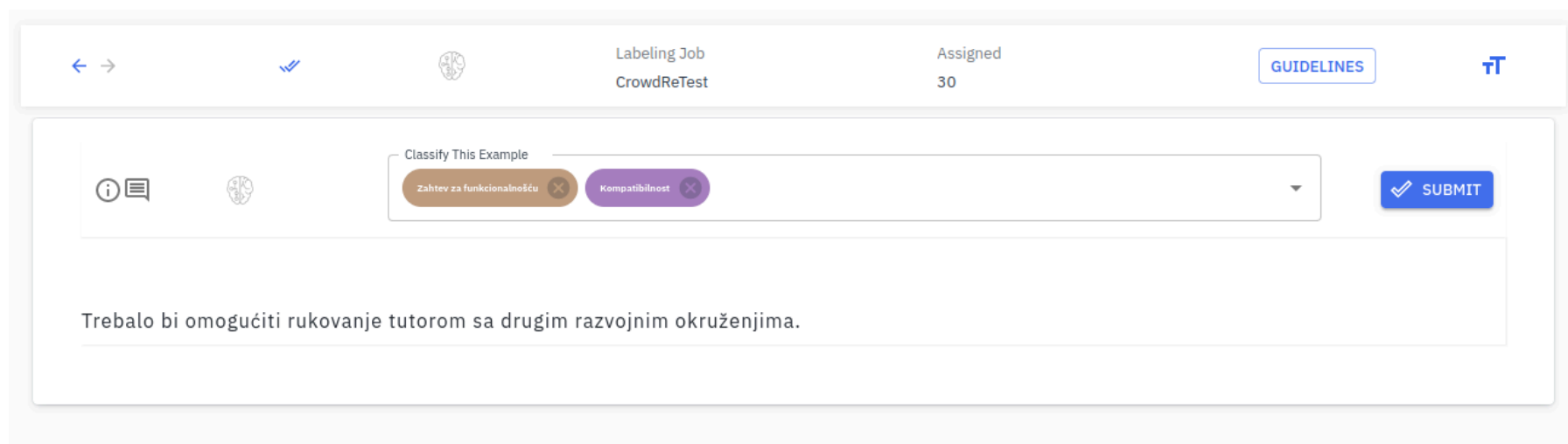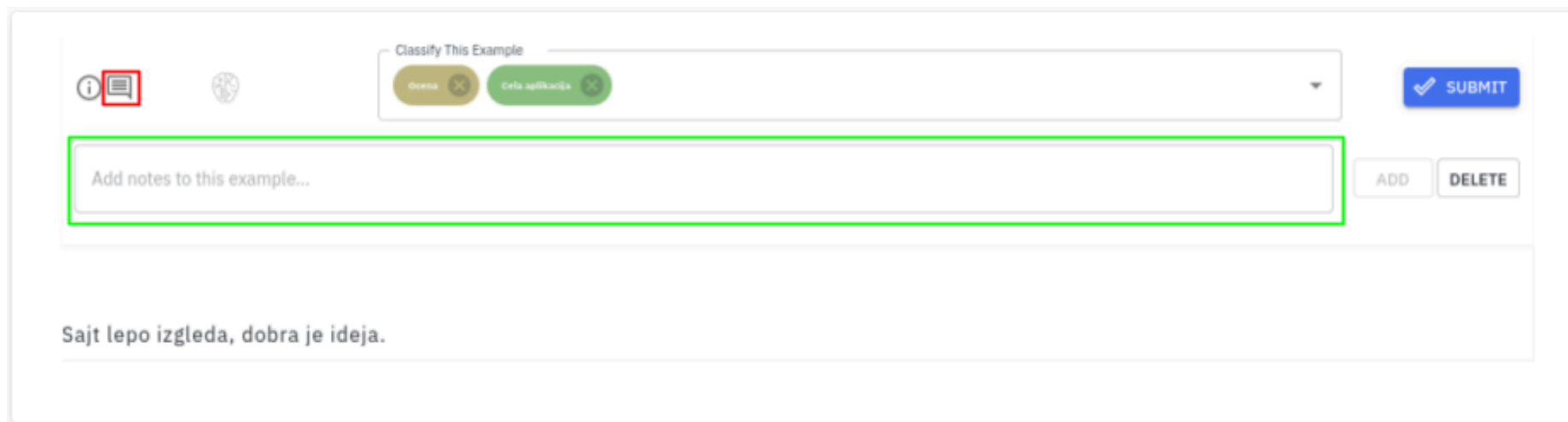


Figure 3. Annotated example

An incorrectly assigned attribute can be removed by clicking **X** next to its name. In contrast, saving the annotation and moving to the next sentence in the dataset is done by clicking the **Submit** button.

For each annotation, it is possible to leave a **comment**:
- By clicking the button to leave a comment (outlined in red in Figure 4)
- By entering the comment in the **Add notes to this example…** (outlined green in Figure 4)
- And by clicking the **ADD** button to save the comment.

An unwanted comment can be deleted by clicking the **DELETE** button next to it.



Slika 4. Leaving comment

# Re-login to the system

The annotation process can be interrupted by simply exiting the application, where all annotations assigned up to that point remain permanently saved in the system. Re-login to the system is done by selecting the **LOGIN** menu from the tool's homepage. After entering the email address, annotators will receive an email with a link that leads to the re-login page, as shown in Figure 6.

support@lighttag.io
to me ▾

You have 1 LightTag accounts

Below are the link(s) to Login.

• vd

CONTACT US

Figure 6. Login invitation

Clicking the provided link will take the annotator to the login page. After entering their email address and password, they will be logged into the system and can continue annotating.

# Completion of annotation

After saving the annotation of the last sentence in the dataset, a modal dialog shown in Figure 7 will be displayed to the annotator. By clicking the **REVIEW YOUR LAST CHANGES** button, the annotator can review their annotations one more time or exit the tool.

Figure 7. Completion of annotation