1 General

Using the Rubric Tool involves two jobs:

1. Creating Tasks

For each task (i.e., an assignment, project, or any other gradeable task), a new task should be created by clicking *Create New Task* on the *Home Screen*. Meta-information concerning this task can be entered here and then saved to your personal task list, or exported and downloaded as a JSON-File.

2. Assess Solutions

The people who assess the tasks (i.e. tutors) can use the JSON-File created in the previous step to do so. They can select a task from the list in their *Home Menu* and press *Fill out Rubric* to assess the solutions according to the task structure defined in **Creating Tasks**. Within the assessment step they can work on different students solutions consecutively and export the results of their assessment as a *CSV*- or *JSON*-File.

Attention:

The current progress of an assessment session or a task creation session is only persisted in the local storage of the web page. This storage instance is wiped when the browser history is cleared or the local storage is wiped specifically. Further details on persistence are discussed in the chapters Creating Tasks and Assessment of solutions.

The full implementation of the tool can be found on https://github.com/0nlineSam/rubrics-creation-tool.

2 Home Screen

The *Home Screen* is the entry point to the web application (siehe Figure 1). From here the user can upload an existing task (label 1), create a new task (label 2), see a list of saved tasks (label 3) and fill out a rubric (label 4). The labels are further described below.

- 1: The user can upload a task, a JSON-File in order to fill out the rubric.
- 2: The user can create an entirely new task.
- **3:** The user can view a list of *tasks* available for assessment.
- 4: The user can start the assessment process and fill out an existing task.

3 Creating Tasks

3.1 Granularity

The granularity of a task is defined by the lecturer (or creator of the task). At the coarsest granularity in the context of, for example, exercise sheets, a task should reflect one exercise sheet. Of course a finer level of granularity can be chosen. In the context of exercise sheets this could mean, that there is one task per task on an exercise sheet. Ultimately it is the lecturers responsibility to communicate the granularity of the task.



Figure 1: Screenshot of the Home Screen

3.2 Process of Task Creation

The process of *task creation* is designed in a linear fashion. There are four consecutive steps involved in *task creation*.

- 1. Entering general information. Part of the Meta-Information.
- 2. Selecting a main topic. Part of the Meta-Information.
- 3. Selecting Features with their associated weights.
- 4. Overviewing and validating the choices made in the previous steps.

In order to get to the next/previous step the user can press the BACK-/NEXT-Buttons (labeled 9 and 10 in Figure 2).

3.3 Meta-Information

Specifying the meta-information for a *task* is done by clicking the "Create New Task"-Button on the Home Screen. The steps 1 and 2 are desgined to enter this meta-information consisting of the following parameters (marked with corresponding labels in Figure 2 and Figure 3):

1. Course

Select the couse to which the assignment belongs. A dropdown provides a list of available courses.

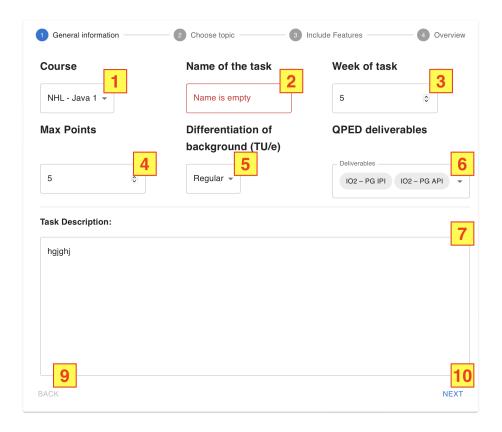


Figure 2: Step one of the task creation process.

2. Task Name

A name for the task. This name should **not** be empty and has to be **unique** in order to *add* the task to the home screen list (Figure 1, label 3). The name does not have to be unique in order to export the task as a JSON-File.

Attention:

Only use **characters** that are **legal in file names**. The *name* will be part of the exported file name.

3. Task Week

The week in which the task has to be solved. Also indicates the expected knowledge level of the students.

4. Max Points

Specify the maximum number of points that students can achieve in this *task*. This is also used for computation of the final score achieved by the student, when the *rubric* gets *filled out*.

5. Differentiation of Background

Only change this value if the course is a TU/e-course. This value corresponds to different variants of assignments.

6. QPED Deliverables

Select all QPED deliverables that students have used for this assignment. Either because they were used to teach the topics that are practiced by this assignment, the assignment itself uses a deliverable or students may use a deliverable to solve the assignment.

7. Task Description

Used to provide a short description of the task at hand. The main purpose of this parameter is to allow the assessors of a *task* to quickly verify that they are assessing the right *task*.

8. Main Topic

Select a main topic for the *task*. The available topics are nested within categories. This *main topic tree* is depicted as a dropdown. In order to select a topic, you have to select a *leaf node* of this tree.

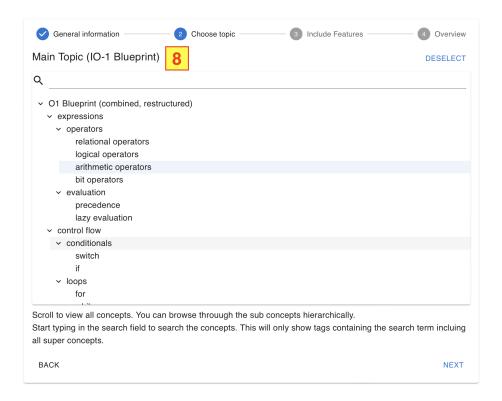


Figure 3: Step two of the task creation process.

3.4 Features

Features for a *task* can be selected from three main groups: *Basic*, *Advanced* and *Procedural Guidance*. Set a check to include the corresponding feature and chose a weight to determine how heavily the students ability to fulfill the features requirements affect their final score.

Include Features

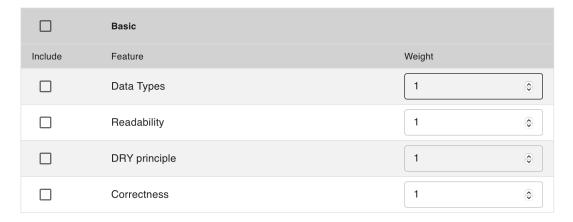


Figure 4: Step three of the task creation process.

3.5 Overview

The Overview (Figure 6) displays all relevant information the user has entered in the process. It also notifies the user if the task name chosen is not unique (Figure 5). In this case, the user can edited the name right in the overview by clicking the "pen"-symbol. Furthermore, the "Add Task"-Button will be visible but not enabled while the "Export JSON"-Button will be visible regardless of whether the name is unique. After pressing each of the two buttons, the user is brought back to the Home Screen. The user also has the ability to add additional comments.



Figure 5: Case: Name is not unique.

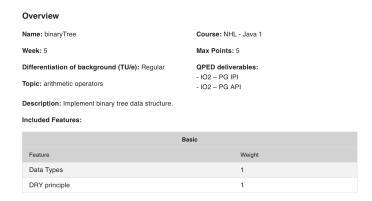


Figure 6: The final step of the task creation process.

- 4 Assessment of solutions
- 5 Personal Settings