

Task scenario 1:

Title:

Understanding Teachers' Priorities in Student Learning through Importance Quizzes.

Goal:

A teacher is able to assign importance to different abilities they value.

Background:

Assume that you are a sports teacher who cares about the physical abilities of students but not their English abilities. Before assessment, you want to give importance to each ability.

Related User Stories:

E1.5: If different teachers could evaluate students according to their subjects, the evaluation of students' general competencies would be more accurate. This scenario shows how the teachers give weight to each ability.

Initial State:

The teacher has accessed the Ruby platform and is ready to do the importance quiz.

Steps:

- i: Click on the "Fill the quiz" button to initiate the quiz.
- ii: Assign an importance value to each ability on a scale from 1 to 10. Use 1 for the least preferred and 10 for the most preferred.
 - a. Assign a higher importance value (e.g., 7) to physical ability.
 - b. Assign a lower importance value (e.g., 3) to English ability.
- iii: Once completed, click the "Finish" button to save the importance settings.

End State:

The importance quiz is completed, and now the teacher can continue the next task.

Expectation of Test:

Different teachers have different weights of each ability according to the subjects that they teach. More specifically, a sports teacher will focus more on physical ability than English reading and give more weight to physical ability.

Task scenario 2:

Title:

By completing the tutorial, new users can get familiar with the Ruby platform.

Goal:

To learn the basic operations of the system by completing a tutorial, enabling the teacher to become familiar with the platform and successfully execute all basic operations afterward.

Background:

As a teacher who has never used the system before, you aim to learn its basic operations through the tutorial provided within the system. This will help you become acquainted with the platform and confidently navigate its features.

Related User Stories:

E2.1: By completing the tutorials, users will be able to know how to use the system, and what the system is. This scenario can directly show how the tutorial will be provided.

Initial State: You have completed an important quiz and are prepared to begin the tutorial, all features are locked until the tutorial section is completed.

Steps:

- i. Click on the two tutorial provided in the homepage
- i. Follow the instructions provided in the tutorial to learn about the basic operations of the system, such as create a student, create a group. (now it is empty, since this is a low-fidelity prototype).
- iii. Complete all tutorial modules or sections as directed.

End State: Upon completion of the tutorial, as a teacher who has familiarized himself or herself with the basic operation of the system, all features in the Ruby platform are now unlocked and the teacher is free to access.

Expectation of Test:

Users could watch both tutorials and have an overall understanding of how the system runs.

Task scenario 3:

Title:

Viewing student assessment progress

Goal:

To access and review the assessment progress of all students

Background:

As a high school leader responsible for overseeing a large number of students, you need to stay informed about their assessment progress. This information is crucial for monitoring student performance and identifying any areas that may require additional support or intervention.

Related User Stories:

E1.11, E1.12: According to the user stories, users should be able to see both an overview and details of the assessment process. This task will show how the users view the assessment process.

Initial State: You have access to the Ruby platform and are ready to access student assessment progress.

Steps:

- i. Navigate to the "Group and Children" section
- ii. Select the groups to view assessment progress under your management.

End State:

All students in that group are shown, and each student's assessment progress is listed.

Expectation of Test:

Users view both the overview and details of the group.

Task scenario 4:

Title:

Able to understand assessment questions if confused.

Goal:

To quickly grasp the meanings of all assessment questions and complete the assessment in a timely manner, reduce overhead on understanding the question.

Background:

As a high school teacher with time constraints and limited familiarity with assessment questions, you need to efficiently comprehend the meaning of each question to ensure accurate grading and timely completion of the assessment.

Related User Stories:

E1.1, E2.1: According to the user stories, users must be able to use the system easily. This scenario shows the functions for reducing the effort of using the system.

Initial State: You have started the assessment and confused with option provided

Steps: Hover on each option

End State:

The detail explanation of the option is provided

Expectation of Test:

Users can view the details of each choice by hovering over them. Also, users can save time by reading images or doing matrix questions.

Task scenario 5:

Title:

Reviewing class reports and evaluating overall performance.

Goal:

To assess the overall performance of students by reviewing class reports through data visualization, despite limited proficiency in math and data analysis.

Background:

As a sports teacher with limited skills in math and data analysis, you seek to utilize data visualization tools to understand class performance and evaluate students' progress effectively.

Related User Stories:

E1.7, E2.6, E2.7: According to the user stories, the system must show visual information on the report so that users can get data information intuitively. This task gives the clients a real-life scenario of interaction with the visualized data.

Initial State: You have completed all students' assessments and are ready to review class reports using data visualization tools.

Steps:

- i: Click on the "Report" button
- ii: Click on the "Class Report" button
- iii: Hover on the bar chart to check students under each level
- iv: Click on the "Change mode" button to visualize report in a bar chart

End State:

Access the class report section within the assessment platform to view summarized data on student performance.

Expectation of Test:

Users click to change mode to view different kinds of data visualization and hover to see more details of the data. The information provided by the system should be intuitive and easy to understand.