**UC-1**

**UC-2**

**UC-3**

**UC-4 Complete Exercise**

1. The learner presses **"Start Exercise"**.
2. The system checks the number of hearts:

* If **hearts == 0**, a message appears: **"No hearts left, study harder and try again when a heart is regenerated."** Then the exercise stops.
* If hearts are available, the system proceeds with the exercise

1. The system retrieves the questions and starts the timer.
2. The system displays the first question.
3. **(Optional):** If the learner requests a hint:

* The system checks the points balance. If **points ≥ 5**, it displays the hint and updates the remaining points.
* If points are insufficient, the system shows: **"Not enough points."** Then the learner must answer the question.

1. The learner answers the question and submits the response:

* If the **answer is correct**, the learner earns **2 Dolce Points**, which are added to the total, with a message: **"Correct! +2PD"**.
* If the **answer is incorrect**, the learner loses **1 heart**, and a message appears: **"Wrong! One heart lost."** The system then updates the remaining hearts count.
* The system saves incorrectly answered questions in the **reviewQuestions** list.
* The system increments the **progress tracker** by 1.
* If **remaining hearts == 0**, a message appears: **"Can't move to the next question. Study harder and try again when a heart is regenerated."** The exercise stops.
* If **remaining hearts > 0**, the exercise continues.

1. The system automatically displays the next question from the retrieved list, looping back to **step 4** until the exercise ends (e.g., after **10 questions**).
2. Once the exercise ends, the system stops the timer and calculates **bonus points** (criteria to be discussed later).
3. The system displays a summary including **time spent, points earned, and remaining hearts**.
4. The system exits the exercise window and marks it as **completed**.

**Important Note on Heart Regeneration (Step 6):**

* If the learner starts the exercise with **5 hearts or fewer** and loses **1 heart**, the system starts a **heart regeneration timer** for **1 hour** from the moment the heart is lost. After the hour, the lost heart is restored.
* If the learner loses a **second heart** **during the first heart's regeneration period**, the **second heart’s timer will only start after the first heart is restored**—meaning the second heart will be restored **2 hours** after the first heart was lost.
* However, if the second heart is lost **after the first heart has already been restored**, its **regeneration timer starts immediately**, and the heart will be regained **1 hour after its loss**.