

Nominal Use Scenario

Scenario 1 — Practicing a Tutoring Session

A CSLC helper logs into the application using their university credentials. After logging in, they select a topic they expect to tutor that day, such as loops or recursion. The system generates a simulated student who is struggling with the concept and presents a question or misconception.

The helper begins asking guiding questions to determine what the simulated student already understands. The student responds with partial or incorrect reasoning, and the helper adapts their questions to help the student reflect on their thinking. After several rounds of interaction, the simulated student demonstrates understanding of the concept.

The system provides brief feedback indicating whether the helper followed appropriate tutoring strategies. The helper may then choose another concept or log out.

Scenario 2 — Undergraduate Practicing Teaching Skills

An undergraduate student logs into the system after a study session and chooses to practice teaching a topic they recently learned in class, such as conditional statements. Since they are unsure which topic to pick, they select the “random concept” option. The system generates a simulated student who is confused about when to use an `if` versus an `else` statement.

The undergraduate begins by asking simple guiding questions to understand what the simulated student already knows. The simulated student responds with partial understanding, and the undergraduate adjusts their questions to focus on decision-making logic rather than syntax. Over several exchanges, the undergraduate becomes more confident in asking helpful questions and avoids directly stating the solution.

Once the simulated student demonstrates understanding of the concept, the system indicates that the learning goal has been achieved. The undergraduate reviews brief feedback about their tutoring approach and decides to start another session with a different topic to continue practicing before their next CSLC study group meeting.

Socratic Tutor

Team 7

1/25/26

Error Scenario

Scenario — User Attempts to Force Answers

A helper selects a concept but repeatedly tries to prompt the simulated student to reveal the solution directly. The system detects that the interaction is not following a Socratic tutoring approach and displays feedback reminding the user to ask guiding questions instead of requesting answers. The system may also suggest example question styles. The helper restarts the session and attempts to guide the student more appropriately.