

# Task Overview:

The task involves the development of a quiz system. This system's primary function is to allow users to enter answers and validate whether the provided answers are correct or not. Furthermore, there are specific actions that need to be implemented as part of this project, and different question types must be developed, with the UI design replicating the provided images.

**Answer Validation:** The core functionality of the system is to validate answers entered by users. The system will check whether the answers provided by users are correct based on predefined criteria and provide feedback accordingly.

**Actions:** Several actions are essential for the successful operation of the quiz system.

1. Flag: You can flag a question and can come later to finish it
2. Check: Allows you to check an answer
3. Resume: You can resume your quiz any time where you left.
4. Sound: Sound comes when you check and answer is wrong or right. On the wrong you will play some negative sound and on the right you will play a positive sound.

**User Interface (UI):** The UI of the quiz system needs to be designed to replicate the images provided.

**Questions Types:** All the question types are explained below in detail.

# 1.Free Choice/Free Answer

A free-choice question type is a form of assessment where students are provided with a single input field to enter their answers.

This question type is commonly used in exams and is designed to test students' ability to express their answers in various formats such as fractions, square roots, cube roots, quadratic equations, and so on.

- Screenshot:

The screenshot shows a web interface for 'my favorite teacher'. At the top, there are navigation links: Dashboard, Courses (highlighted), Learning Lab, and Achievements. Below these, a breadcrumb trail reads: Courses > Saxon Math 5/4 > Lesson 5 > Lesson Practice. The main content area displays a math problem:  $5 + 4 = ?$ . Below the problem is an 'Answer' input field containing the number '9'. To the right of the input field is a blue 'Check' button. Below the input field, a yellow message box states: 'Note: The answer provided in the answer book for this question is incorrect.' Below this message is a section titled '(+) Math Functions' containing a grid of 16 icons for mathematical operations and symbols. On the right side of the interface, there are several icons: a flag for 'Flag for later', a magnifying glass, a checkmark, and a camera icon. The bottom of the interface shows a navigation bar with icons for a home page, a list of courses, and a user profile.