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Application Testing

**App: Practice Mode**

Question 1 of 5

**1. No Loading Indicator for Data Fetching**

* **Problem:** When the quiz loads ("Loading..." is shown in #questionText), there's no visual spinner or progress indication.
* **Impact:** Users may think the app is stuck if the question data loads slowly.
* **Suggestion:** Add a loader (e.g., spinner or progress bar) and show it while Firebase data is being fetched.

**2. No Error Handling / Feedback**

* **Problem:** If Firebase fails to load questions , there's no user-visible error message.
* **Impact:** Leaves users confused about whether the issue is on their end or with the system.
* **Suggestion:** Use user-friendly toast alerts (e.g., with Bootstrap Alerts or Toasts) to show errors like:

**3. Lack of Visual Progress Indicator**

* **Problem:** The quiz shows "Question 1", but no overall progress (e.g., "1 of 10").
* **Impact:** Users don’t know how far they are in the quiz.
* **Suggestion:** Add a progress bar or text indicator like:

**App: Practice with Time**

Question 1 of 10

**1. No Visual Feedback for Timer Expiry**

* **Problem:** There's a timer (#timer) shown, but no indication of what happens when time runs out (e.g., does it auto-advance? lock answer? show alert?).
* **Impact:** Users may miss a question without knowing why or feel surprised when the question changes suddenly.
* **Fix Suggestion:**
  + Add a visual animation (like red flash or pulse).
  + Play a sound or show a toast message: “Time's up! Moving to next question.”

**2. No Confirmation Before Starting Timed Quiz**

* **Problem:** The “Start Timed Practice” button immediately starts the quiz.
* **Impact:** Users may not be mentally ready, or may accidentally click and get locked in.
* **Fix Suggestion:**
  + Show a modal popup: “You’ll have 30 seconds per question. Are you ready to begin?”
  + Add a “Cancel” or “Go Back” option.

**3. Timer Lacks Progress Visualization**

* **Problem:** Only a countdown number is displayed (00:30), no progress bar or visual urgency.
* **Impact:** Less intuitive sense of time running out.
* **Fix Suggestion:**
  + Add a shrinking progress bar or a circular countdown:

**App: Simulate Exam**

Question 3 of 60

**1. Limited Feedback Design**

* **Issue:** The feedback area exists (#feedback) but likely unused until answered.
* **Impact:** If no feedback is provided (e.g., correct/incorrect response), users feel uncertain.
* **Suggestion:**
  + Add real-time feedback like:
    - Correct!
    - Incorrect — The right answer was

**2. No Pause or Exit Option**

* **Issue:** Users can't pause or safely quit mid-exam.
* **Impact:** If interrupted, the user loses all progress.
* **Suggestion:**
  + Add a confirmation modal when closing tab or navigating away.
  + Option to pause with warning: “You’ll lose time while paused.”

**3. No Real-Time Progress Tracking**

* **Issue:** The UI only says "Question 1 of 60", but no live progress bar.
* **Impact:** It’s hard to judge pace without doing math.
* **Suggestion:**
  + Add a progress bar (e.g., Progress: 5/60)
  + Show estimated time per question remaining

**App: Review Incorrect Answers**

Question 4 of 7

**1. No Confirmation on “Remove from Review”**

* **Issue:** Clicking **“Remove from Review”** likely removes the item silently (via localStorage update).
* **Impact:** Accidental removal is irreversible with no feedback.
* **Fix Suggestio:** Add a confirmation dialog

**2. No Feedback if Review List is Empty**

* **Issue:** If localStorage.getItem('incorrectQuestions') returns null or empty, the screen loads without explanation.
* **Impact:** Users see only "Loading..." or a blank screen with no guidance.
* **Fix Suggestion:** Add a fallback UI:

**3.** **Unclear Answer Highlighting**

* **Issue:** You have #answersContainer and #feedback, but no visual indication of:
  + What the user answered
  + What the correct answer was
* **Impact:** Users don’t get a clear comparison of their mistake.
* **Fix Suggestion:** Color code the answers: