

Task: Number Guessing Game (React + JavaScript)

Objective

Create an **interactive number guessing game** where users try to guess a randomly generated number within a given range. The game should provide feedback and track the number of attempts.

Features & Requirements

Generate a Random Number

- When the game starts, generate a **random number** within a **specified range** (e.g., **1 to 100**).
- The number should remain **hidden** until the user guesses it correctly.

Accept User Input

- Provide an input field where users can enter their guess.
- Ensure the input **only allows numbers**.

Provide Feedback on Each Guess

- After each guess, display feedback:
 - "Too High" → If the guessed number is greater than the target number.
 - "Too Low" → If the guessed number is smaller than the target number.
 - "Correct! You guessed it in X attempts!" → If the guess is correct.

Track Number of Attempts

- Keep a **counter** that tracks how many attempts the user has made.

Allow Game Restart

- Provide a **Restart Button** that generates a new random number and resets the game.
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Expected UI Behavior

Input field for **entering a guess**.

Button to **submit the guess**.

Feedback message after each guess.

Display **number of attempts** taken.

Restart button to reset the game.