Task 1: Random Number Collection, Storage and Matching

Objective:

A web application allows to key-in 5 digit number, accumulate random digits, and match the keyed-in digit with the accumulated random digits.

Develop a frontend interface that allow to accept 4 digit number and continuously displays a running random number. Implement a data collection feature that, when activated, captures the last digit of this number at 1-minute intervals.

The collection process should terminate after 5 minutes, marking the end of a transaction. The accumulated digits from the 5 intervals should be stored in the database as a single transaction.

Once the accumulated number formed, check the number that initially keyed-in that have how many digits, continuous digit, and permutation matched with the formed number.

Steps:

1. Start with asking for a 5 digit number.

2. Display a continuously running random number on the frontend interface.

3. Integrate a button for data collection. Once pressed: Capture the last digit of the running number every minute.

4. After 5 minutes, consider the data collection phase complete and cease data capture.

Store the sequence of 5 digits obtained from the data collection phase into the database as one transaction.

5. Match the keyed-in number with the formed number by the rules indicated at above objective.

6. Display the matching results.

Technical Specifications:

Use the following technologies

- PHP

- JavaScript

- HTML

* CSS

- MySQL

Ensure all developed code is committed to GitHub.

Presentation:

Demonstrate the developed solution.