Bulls and Cows

RULES:

- 4-digit number is generated where every digit is different.
- User guesses a number and is told the exact and partial digit matches.
- Exact match
 - When the user guesses the correct digit in the correct position.
- Partial match
 - When the user guesses the correct digit but in the wrong position.
- Once the number is guessed
 - Exact matches for all digits
 - The user wins the game.

REQUIREMENTS:

- Spring Boot REST application using JDBC Template to access the database.
- A Game should have:
 - Answer
 - 4-digit number with no duplicate digits.
 - Status
 - In progress
 - users should not be able to see the answer.
 - Finished
- Each Round data
 - A guess,
 - o The time of the guess,
 - The result of the guess in the format "e:0:p:0"
 - "e": exact matches
 - "p": partial matches.
- REST endpoints:
 - o "begin"
 - POST
 - Starts a game,
 - Generates an answer,
 - Sets the correct status.
 - Return a 201 CREATED message and the created gameld.
 - o "guess"
 - POST
 - Makes a guess by passing the guess and gameld in as JSON.
 - Calculate the results of the guess
 - Mark the game finished if the guess is correct.
 - Returns the Round object with the results filled in.

- o "game"
 - GET
 - Returns a list of all games.
 - in-progress games do not display their answer.
- o "game/{gameId}"
 - GET
 - Returns a specific game based on ID.
 - in-progress games do not display their answer.
- o "rounds/{gameId}
 - GET
 - Returns a list of rounds for the specified game sorted by time.

DATABASE:

