Week 6: Individual Progress Report

GitHub URL: https://github.com/Akhil-Patil-Bagili/magic-square-puzzle-solver

(___/1pt) (y/n) your product is effective to deliver the knowledge in computer science to the product users.

- n

  Explanation: While the Magic Square Puzzle Solver primarily focuses on logic and pattern recognition through puzzle-solving, it indirectly supports computer science education by enhancing problem-solving skills and mathematical understanding. However, its core function is not directly aimed at teaching computer science concepts.

(___/1pt) user friendly/appealing in terms of the following criteria. (y/n) The landing page is attractive. (hints: the homepages of the hightech giants)

- (y/n) The landing page is attractive.
  - Answer: y
    Explanation: Yes the landing page is ensured to be attractive with a dynamic page developed using Tailwind CSS and React.
- (y/n) Users are able to understand and play the puzzle game quickly.
  - Answer: y
    Explanation: Yes the UI is designed in such a way that players can easily understand and play the puzzle
- (y/n) Users can just jump in and start playing (trying out) the game immediately without the registration process.
  - Answer: y
    Explanation: Yes, the user can directly play the game without any registration

(___/1pt) Your product should have the following functions. .

- (y/n) Users can register with a username and a password.
  - Answer: y
    Explanation: Yes, users will be provided input form to fill username and password.
- (y/n) The performance of registered users are updated after each trial and can be displayed upon requests.
  - Answer: y
    Explanation: Yes the performance is displayed on user profile dashboard after each trial
- (y/n) Users can ask for hints and/or solutions.
  - Answer: y
    Explanation: Yes, the user will be able to access hints to solve the puzzle.
- (y/n) Administration account

- Have all the functionality like the regular registered users.: y
- Have additional privilege likes user account removals or password reset: y
  Explanation: Yes, the regular users will be able to access different functionalities and will be able to reset the password and update other settings.

(___/1pt) (y/n) Do you have a bruteforce method as the comparison basis for the puzzle solver.

- Answer: y

Algorithm Efficiency

- (y/n) Do you have a better algorithm than brute-force.
  - Answer: y

(___/1pt) Explain if the puzzle is targeted at a single user or multiplayer, competitive or noncompetitive.

- Explanation: The Magic Square Puzzle Solver is designed as a single-user, non-competitive game. It focuses on individual puzzle-solving experiences. Although not inherently multiplayer, the concept of competitiveness could be introduced by comparing the number of tries or time taken to solve puzzles. However, direct peer-to-peer communication is not applicable due to the single-user nature.

if it is a multiplayergame , address the possibility of the direct peertopeer communications without going through the host.

(___/1pt) Explain how to deploy your product.

1. **Prerequisites:**
   - Have Git installed.
   - Have a Heroku account and install the Heroku CLI.
2. **Prepare Flask Application:**
   - Create a Procfile and requirements.txt.
3. **Create a Heroku Application:**
   - Use heroku create appname.
4. **Add a Database:**
   - If necessary, use Heroku Postgres.
5. **Deploy Application:**
   - Push the code to Heroku.
6. **Ensure One Dyno is Running:**
   - heroku ps:scale web=1.
7. **Open the Application:**
   - Use heroku open to view the application.