Meme Game

Design and implement a web application for playing a single-player version of the "What do you meme?" board game.

In the game, the player receives a random meme picture and seven possible captions for that meme: the player needs to guess the "right" caption for the meme.

The game is based on an archive of several meme <u>pictures</u>. Each meme picture is associated with exactly 3 "right" <u>captions</u> that best match the picture, and each of them is associated with a number of points the player will gain. Specifically, one caption is worth 1 point, another 2 points, and another 3 points. It is possible for a caption to be associated with more than one picture. Students are free to use the memes and the captions they prefer.

The gameplay works in several rounds. Each round proposes a meme, as follows:

1. The player receives a random meme picture and seven possible captions for that meme in random order. Both the random meme picture and the captions must be generated by the server. Among the seven captions, the three "right" ones must appear.
2. The player must select a caption that best fits the meme.
3. If the player selects one of the most appropriate captions for the meme, they get the associated points and a message reports the end of the round and the amount of points gained.
4. If the player selects one of the other captions or the time expires, they get 0 points. In this case, the application shows a suitable message together with the two captions that are the best match for the given meme.

Logged-in users will play a game composed of 3 rounds. In addition, all their games and rounds are recorded at the end of the game, the history of their scores is visible in the user profile page. The history should show all meme pictures, with their obtained score (0 or 5), the score for the game, and the total score of all games.

The same meme cannot be repeated in different rounds of the same game, but it might be repeated in different games.

After 3 rounds, the game stops, and the total score of this game is displayed, together with a summary of the correctly matched memes and their selected captions. If the game is not completed by the user, it is not recorded, and no points are assigned.

Anonymous users, instead, may only play one-round games. They won't have access to any functionality of registered users.

After the end of the game, the player may restart a new game.

Logged users can create new associations of meme pictures (already contained in the database) and captions (new or existing), also defining the associated points.

The organization of these specifications in different screens (and possibly on different routes) is left to the student.