

IT3133: Mobile Communication and Computing

Assignment 04

Department of Physical Science

Faculty of Applied Science, University of Vavuniya

Answer All Questions

Duration: 1-hour

21st of November 2023

Instructions:

The react project is available in the shared drive as a ZIP file, copy it to your local drive and extract it. The project is embedded with the necessary data, images and style sheets. After finishing your code work, place only the 'src' folder in the Z drive.

Question:

You are requested to develop a game for children. The game's main objective is to enhance children's object recognition and language abilities. On the left side of the game page, an animal name will be displayed then the player has to click the correct animal image among 16 animals. If the player made the correct choice, the result shows win otherwise lose.

Technology: React

Editor: VS code.

Prototype depicted in Figure 1

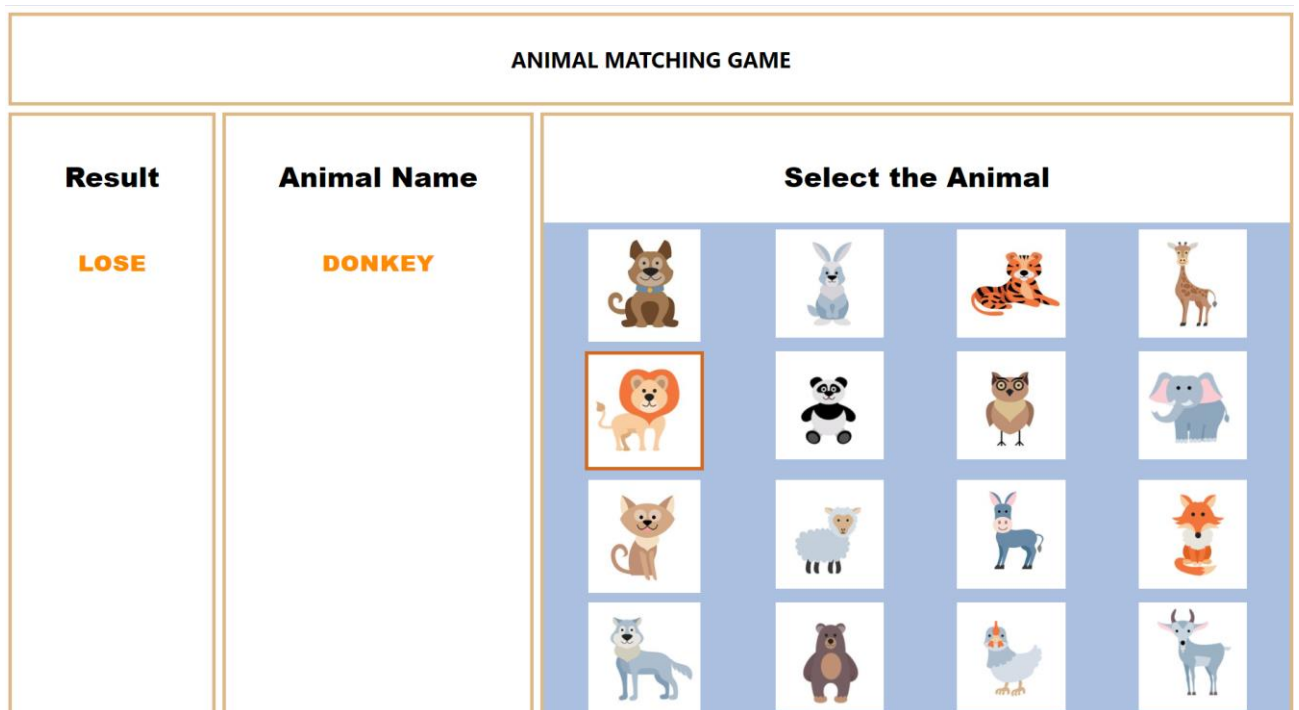


Figure 1 Screen capture of animal matching game

1. Randomly shows an animal name from the array. [mark 30]
2. Display the animal images dynamically. [mark 35]
3. Find the result of the player's choice. [mark 35]

Hints:

- Animals' data is available in the AnimalsDb.JS file.
- Returns a random integer from 1 to 10:
`Math.floor(Math.random() * 10) + 1;`