

CS 20 Web Programming React Practice

Tasks

Problem 1

Create an <h1> that displays "Animal Flashcards"

Create a set of 4 buttons. They should be labelled with the names of 4 animals.

When the button is pressed, a popup should show the sound the animal makes.

For example, if the button face has "dog", the popup will show something like: "The dog says woof"

It is suggested that you use arrays, objects and components, but you any implementation is acceptable as long as you use JSX. Use babel to create this problem in an html file.

Problem 2:

In this problem you will create a grid of colored blocks similar to the following:



- 1. Create an object with properties to represent the number value displayed on the block and a background color (as a hex color)
- 2. Create an array of nine of the objects (use any color combinations you want) call it MyColors
- Create a JSX component to represent one block. Note that the background color should be a property (attribute) and the number value should be contained. I.e.,
 Block bgcolor="#000">4</Block>
- 4. Now create a component called ColorGrid that creates the grid of blocks. It should take a property/attribute which is the array of color objects (from part 2) <ColorGrid colorArray = MyColors />
- 5. The blocks should have a white background on hover with black text.
- 6. When a block is clicked, it should pop up the value on the face of the block
- 7. Add styling and render on the page
- 8. Now use Vite to create an app project and test. Your deliverables are ONLY App.jsx and App.css.

Rubric

All deliverables provided – 20 points

Part 1 working and completed to spec: 40 points Part 2 working and completed to spec: 40 points

Deliverables Worksheet: Assignment 5

- □ HTML file for problem 1 uploaded to Canvas
- □ App.jsx and App.css from problem 2 uploaded to Canvas

What are your thoughts on using React to create a user interface?