WEEK 4 ASSESSMENT

**REACT**

1. What does "UI is a function of state" mean? When a change is made, (e.g. adding a contact) should your JavaScript code directly update the **UI** or the **state**?
2. What is the difference between state and props?
3. Write a very basic React component named Greet that takes a property called name, and produces an HTML greeting specific to that name. For example if called with name “Grant”, it will produce the HTML <h3>Hello Grant!</h3>. No need to write the imports and exports.
4. Write just the small JSX snippet that **uses** the component in question 3, passing it the name “World”.
5. Assume a component has a property called things that takes an array of objects. Each object in the array has id and name. Use JSX to create an ordered list of all the array items’ names. Use the items’ ids as keys.
6. Assume a component has a property called onGo that takes a function. Using JSX, create a button that, when clicked, calls that onGo function. The text on the button should be “Go”.
7. In regards to an HTML form text input change event handler, what does event.target.value give you?
8. Fill in both blanks… With Redux, we dispatch (a)\_\_\_\_\_\_\_\_. When this happens the (b)\_\_\_\_\_\_\_\_ function is called to make updates to the state.
9. What method do we use inside of a component for defining its initial state?
10. With Redux, we typically make 3 action functions for each AJAX call. What are the three, and what is the purpose of each?

CODE CHALLENGE

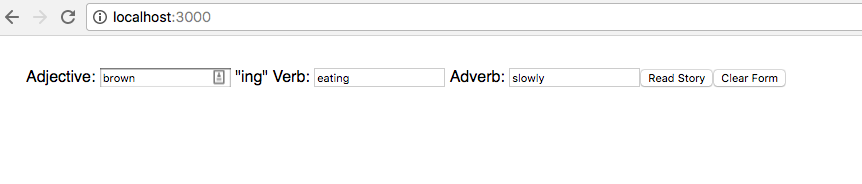
You are given two designs below. One design is a form and the other is a story. When a user fills out the inputs and clicks the submit button, the application will display a story containing the words from the three inputs. Yes, this is Mad Libs. You are responsible for creating a React application (HTML, CSS, and JavaScript) necessary to complete the task. For this assessment, we are not grading on CSS. Just focus on the HTML & JavaScript

**JAVASCRIPT**

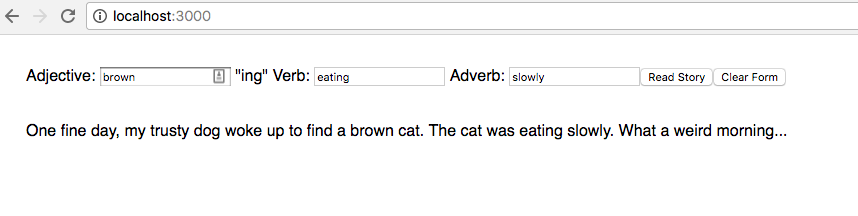
1. Use redux to trigger an action to set state when the user submits the story. *[2pts - 1 for the action and 1 for handler in the reducer]*
2. There should be a component for the Form and another component for the Story. You may also create other components. *[2pts - 1 for each component]*
3. The form should have its own state, synced with each of the three inputs. Name the properties adjective, verb, adverb. *[2pts]*
4. The story is updated when the form is submitted. *[2pts]*
5. Add a clear form button that clears out the form and story. *[2pts - 1 for clearing the form, 1 for clearing out the story]*

**SCREENCAPS**

Entering data into the inputs….



Once the user clicks Read Story:



Once the user clicks Clear Form

