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. In regards to routing, clicking a <Link> component changes the \_\_\_\_\_\_\_\_.
10. In class, we talked about a kind of property that we called **callback properties**. What type of value is passed into a callback property? And is it used to communicate from a) parent to child or b) child to parent?

CODE CHALLENGE

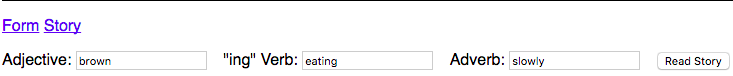
You are given two designs below. One design is a form and the other is a story. When a user fills out the inputs and clicks the submit button, the application will direct the user to the story page and display a story containing the words from the four inputs. Yes, this is Mad Libs. You are responsible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

**JAVASCRIPT**

1. Use routing to show either the form or the story. The form should be at the URL path /form and the story at /story. *[2pts - 1 for each working route]*
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. Use JavaScript to change the page URL to the /story route when the form is submitted. (You’ll have to research this. I didn’t show you how.) *[2pts - 1pt for switching to /story, 2pt if you do it without refreshing the page.]*

**SCREENCAPS**

Entering data into the inputs….



Once the user clicks Read Story:

