WEB301 Assignment 1
Worth: 25%
Due Date: March 16, 2020

Overview:

For the first assignment you are tasked with creating a Single Page Application (SPA) tool for a company to keep track of inventory. You will create a counter that can count upwards from 0 to any positive integer. The application can save the current count in a table on the same page with a label.
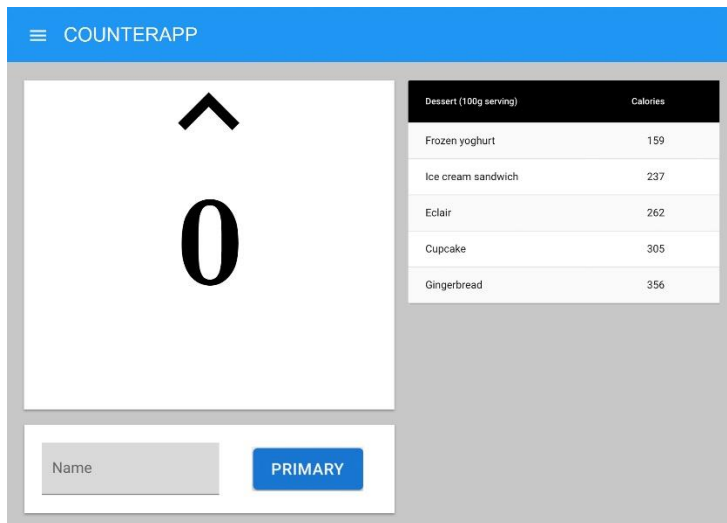
Goal:

The user should be able to visit this application and intuitively know how to use it. They can increment the count up from 0. They cannot increment down below 0. Once they are done, they can click a save button that would save the count in a temporary table. No database required, save all data in the App state.

Mockup:

Base State:

The app will load at 0. The table will be empty. Instead of showing the table come up with a "No data available" message in its place. Clicking the up arrow will cause the counter to increment.
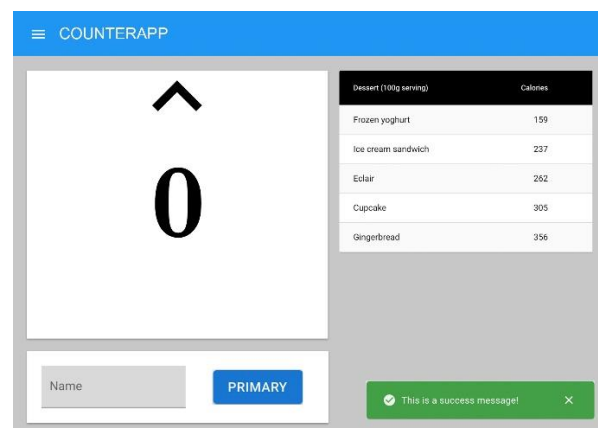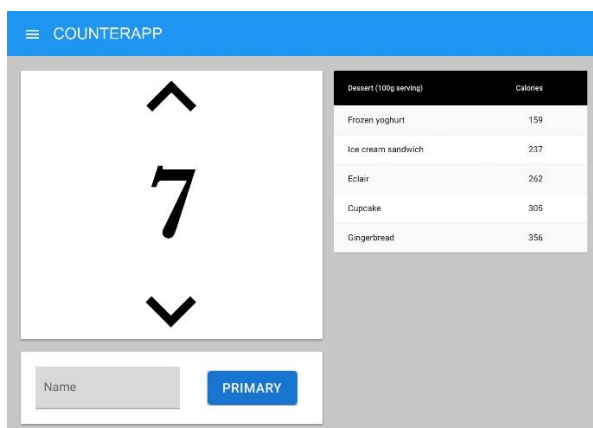

Increment State:

When incrementing the down arrow will be visible and it will allow the user to decrement the value. If the user clicks the save (primary blue) button with a name entered into the TextField, the name and corresponding value will save into the table and reset the counter to 0.

A Snackbar should appear on the lower right indicating a successful save. The Snackbar should have an "x" button that allows you to close the Snackbar. If left untouched the Snackbar should disappear after 5 seconds.

There should be a conditional that prevents the submission of the number if the name TextField is empty.

Requirements:

- Proper setup of a simple React Application (5%)
- Proper use of state (15%)
- Proper use of props (15%)
- Proper creation of custom components (There should be at least 3) (25%)
- Application renders with no errors (10%)
- Design is accurate to the mock-up (10%)
- Save button saves items to table (10%)
- Increment buttons behave properly (10%)