Select Hosting Service

AWS EC2 Amazon Linux AMI 2018.03.0, t2.micro, with 1 vCPU and 1 GB memory.

React Reading

- Tic Tac toe tutorial
 - Components take in parameters called props(properties) and returns a hierarchy of views to display via the render method
 - o Render returns a react element
 - <div /> is transformed at run time to React.createElement('div')
 - Use onClick={() => aFunc } to tell the program to run aFunc everytime a object is clicked
 - Components use 'state' to "remember" things
 - always call 'super' when defining the constructor of a subclass. All React component classes that have a constructor should start with a super(props) call.
 - To have a child alter the state of a parents object. Have the parent pass down a function for the child to use
 - Use .slice() to create a copy of an array to modify instead of modifying the existing array. This is better because it allows us to see past values for the array
 - When you call setState in a component, React automatically updates the child components inside of it too.
 - Unlike the array push() method you might be more familiar with, the concat() method doesn't mutate the original array, so we prefer it
 - need to specify a key property for each list item to differentiate each list item from its siblings

Database Reading

- SQL tutorial on W3Schools
 - Stands for structured query language
 - Need a RDBMS database program to work
 - Table is a collection of related data entries and it consists of columns and rows
 - o Table is broken up into smaller "fields"
 - A field is a column in a table that is designed to maintain specific information about every record in the table
 - A record, also called a row, is each individual entry that exists in a table
 - SELECT * FROM Customers; would select all of the records in the 'Customer' table
 - SQL keywords are not case sensitive
 - SELECT extracts data from a database

- Data is returned in a result table called a result set
- Use 'select distinct' to get only records that are different
- Use select count (distinct <field>) to get the number of different records
- Use where is a filter. Ex. SELECT * FROM Customers WHERE Country = 'Mexico';
 - Operations include <> for not equal; Between; Like; In; And; Or; Not
- o UPDATE updates data in a database
 - Make sure to use the 'where' clause or else all of the records will be updated
 - Ex. UPDATE Customers SET ContactName = 'Jason' WHERE CustomerID = 1;
- DELETE deletes data from a database
 - Make sure to use the 'where' clause or else all of the records will be deleted
- INSERT INTO inserts new data into a database

- CREATE DATABASE creates a new database
- ALTER DATABASE modifies a database
- o CREATE TABLE creates a new table
- o ALTER TABLE modifies a table
- o DROP TABLE deletes a table
- CREATE INDEX creates an index (search key)
- DROP INDEX deletes an index
- MySQL supports LIMIT clause to select a limited number of records
- o MIN()- returns the smallest value of the selected column
- MAX() returns the largest value of the selected column
- COUNT() number of rows that match the specified criterion
- EXIST operator is used to test for the existence of any record in a subquery, returns true or false

CSS + Material UI Reading

- CareerFoundry Video "CSS Tutorial For Beginners"
 - o Cascading Style Sheets- needs html
 - If working in html, you need to make a css file and tag it into your html file to see the difference
 - link rel="<nameofstyle>" href="<CSSfilename>.css">
 - Selectors allow you to tell the browser what elements you want to apply the css code to
 - Element
 - Class- used to change multiple elements to the same css properties
 - .<nameofclass>{<properties>}

- ID- one off things you want to style
 - #<IDName>{formula
- Grid
 - display: grid;
 - grid-template-rows: auto auto;
 - The auto means you just set the dimensions to whatever the default is, we type it twice, once for each row, (we have two rows in this example)
 - grid-template-columns: auto auto;
 - Same thing as above. Three columns. Can be replaced with percentages
- Mobile responsiveness
 - Use media query

- In this example we want to change the grid to one column and 6 rows because on mobile devices we dont have as much space.
 We tell it to do it on mobile by setting max-width to 600px
- o Max-width: <number>px
 - Sets the screen to the max number of px
- Margin: <number> auto
 - Will set the margin equal on both sides of the screen