Sprint 1 Research and Learning

React: https://reactjs.org/tutorial/tutorial.html

JavaScript Library for building UI builds these from isolated pieces of code called components.

Render method returns a description of what you want to see on the screen

Use JSX Syntax to make these structures easier to write

You can put *any* JavaScript expressions within braces inside JSX.

Passing props is how to flow information from parent objects to child objects.

To remember things you use states

All React component classes that have a constructor should start with a super(props) call.

To collect data from multiple children, or to have two child components communicate with each other, you need to declare the shared state in their parent component instead. The parent component can pass the state back down to the children by using props; this keeps the child components in sync with each other and with the parent component.

Avoiding direct data mutation lets us keep previous versions of the game’s history intact, and reuse them later. Detecting changes in mutable objects is difficult because they are modified directly. The main benefit of immutability is that it helps you build *pure components* in React. Immutable data can easily determine if changes have been made, which helps to determine when a component requires re-rendering.

Function components are a simpler way to write components that only contain a render method and don’t have their own state.

SQL: https://www.tutorialspoint.com/sql/index.htm

Want to use the data outside of the database

Commands are in all caps (CREATE, SELECT, INSERT, UPDATE, DELETE and DROP.) Although SQL is case insensitive.

Operators are Arithmetic operators, Comparison operators, Logical operators, and Operators used to negate conditions.

The SQL Joins clause is used to combine records from two or more tables in a database.

If you want to delete an existing database then use the DROP DATABASE statement

Table Creation Example:

SQL> CREATE TABLE CUSTOMERS(

ID INT NOT NULL,

NAME VARCHAR (20) NOT NULL,

AGE INT NOT NULL,

ADDRESS CHAR (25) ,

SALARY DECIMAL (18, 2),

PRIMARY KEY (ID)

);You can clone tables as well

Materials UI/CSS:

Material UI Tutorial Playlist: <https://www.youtube.com/playlist?list=PLQg6GaokU5CwiVmsZ0d_9Zsg_DnIP_xwr>

CSS Guide: <https://www.w3schools.com/css/default.asp>

CSS Guidelines: <https://cssguidelin.es/>