React & Web Development Lingo Cheat Sheet

## Component:

A self-contained piece of UI logic (like TaskManager). Think of it as a mini app within your app.

## JSX:

JavaScript XML – a syntax extension that lets you write HTML-like code inside JavaScript.

## useState:

A React hook that lets you store and update local state (like a variable that React watches).

## useEffect:

A React hook that runs after render – often used for loading data or reacting to changes.

## return():

The part of a component that defines what gets shown on the screen.

## Props:

Short for 'properties' – inputs you pass to components, like arguments to a function.

## State:

Data that changes over time – like task input, toggles, or counters.

## Hook:

A special function that starts with 'use' and gives you access to React features (e.g. useState).

## Function:

A reusable block of code that does something – like add a task or handle a click.

## Arrow Function:

A shorthand way to write functions in JavaScript: () => { /\* code \*/ }.

## Local Storage:

A browser feature that lets you store small pieces of data on the user’s computer.

## map():

A function that loops through an array and returns a new version (used for rendering lists).

## filter():

A function that returns a new array with only the items that pass a condition.

## Listening:

In voice input, it means the mic is actively capturing audio.

## Transcript:

The text result of speech recognition.

## setState:

The function used to change a value stored in state – like setTask() updates 'task'.

## Event Handler:

A function that runs when something happens – like onClick or onChange.

## Return Statement:

Tells the component what HTML/JSX to render. Everything visible goes here.

## Bracket:

A character like (), {}, or []. Each has a purpose (function call, object, array).

## Syntax Error:

A mistake in your code that breaks it (like a missing bracket or typo).

## Terminal:

A text interface where you run commands like npm run dev.

## npm:

Node Package Manager – a tool for installing code libraries like Tailwind or react-speech-recognition.

## Tailwind:

A utility-first CSS framework that lets you style things quickly using class names.