Cheat Sheet: Understanding Function Components with Array and DOM Manipulation

Function Component with Array and DOM	Description	Code Example
Function Component with function keyword	Function component starts with function keyword along with name of the component and includes html tags within return. It also exports component name by default	<pre>import React from 'react' function Extra() { return (</pre>
Function Component with arrow function	Function component starts with variable type along with name of the component and includes html tags within return. It also exports component name by default	<pre>import React from 'react' const Extra = () => { return (</pre>
Props in function component	Props can be sent from parent component as attribute along with child component	<pre>import React from 'react' import ChildComponent from './ChildComponent' function ParentComponent () { let title='Project Manager'; return (</pre>
Access Props within child function component	Props can be accessed easily within the child function component using props.variable_name	<pre>import React from 'react' const ChildComponent = (props) => { return (</pre>

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Event handling in class component	Events such as click event can be performed by calling function which is declared before return of function component	<pre>import React from 'react' const Extra = (props) => { function show() { console.log('Show function'); } return (</pre>
State management in function component	State management can be done easily with useState() hook	<pre>import React, { useState } from 'react' const StateManagement = () => { const[name,setName]=useState('John'); return (</pre>
Array Declaration	Array can be declared in square brackets	const names = ['Alice', 'Bob', 'Charlie'];
Stateful Array	Array can be declared using useState	<pre>const [todos, setTodos] = useState(['Learn React', 'Build Project']);</pre>
Dynamically Constructed Arrays	Arrays can be constructed dynamically based on application logic or received data	<pre>const numbers = []; for (let i = 0; i < 10; i++) { numbers.push(i); }</pre>

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'Orange'];
                                         const items = ['Apple', 'Banana',
                                         const \ itemList = items.map((item, index) => {item});
                                         return {itemList};
              The map() method is
              commonly used to
Array map()
              iterate over each
method
              element of an array and
              return a new array of
              React elements
                                         const items = ['Apple', 'Banana', 'Orange'];
for (const item of items) {
                                           console.log(item);
              You can use the for...of
for...of Loop
              loop to iterate over the
              elements of an array:
                                         import React from 'react';
                                         function ArrayComponent() {
  const items = ['Autumn', 'Spring', 'Summer', 'Winter'];
                                           return (
                                             <div>
                                               <h1> Seasons Names</h1>
                                                ul>
                                                 {items.map((item, index) => (
                                                    key={index}>{item}
                                                 ))}
                                           You can render a list of
                                             </div>
              items by mapping over
Rendering a
                                           );
              an array and returning a
List of Items
              JSX element for each
                                         export default ArrayComponent;
                                         Adding and
              You can add or remove
removing
              items from an array
items in
              using state and React's
              setState method
array
                                             setItems([...items, inputValue]);
setInputValue('');
                                           const removeItem = (index) => {
                                             const newItems = [...items];
                                             newItems.splice(index, 1);
                                             setItems(newItems);
                                           return (
                                             <div>
                                               <h1>Fruits</h1>
                                                ul>
                                                  {items.map((item, index) => (}
                                                    key={index}>
                                                     {item}
                                                      <button onClick={() => removeItem(index)}>Remove</putton>
                                                    ))}
                                                <input
                                                 type="text"
                                                  value={inputValue}
                                                 onChange={(e) => setInputValue(e.target.value)}
                                                <button onClick={addItem}>Add</putton>
                                             </div>
                                           );
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import React, { useState } from 'react';
function ArrayComponent() {
                                                  const [items, setItems] = useState(['React JS','Vue JS','Angular JS','Vanilla JS']);
                                                return (
                                                  <div>
                                                    <h1>Front End Languages</h1>
                                                    {items.length > 0 ? (
                                                         {items.map((item, index) => (
                                                           key={index}>{item}
                                                         ))}
                                                      No Front End language is available
)}
Conditional
               You can conditionally
rendering
               render components
using
               based on the content of
                                                  </div>
ternary
                                               );
               an array
operator
                                              export default ArrayComponent;
                                              import React from 'react';
                                              function MyComponent() {
                                                return (
                                                  'div style={{ backgroundColor: 'lightblue', padding: '20px', borderRadius: '5px' }}>
    This is a paragraph with inline styles.
                                                  </div>
                                               );
               Inline style can be
                                             export default MyComponent;
inline style
               applied within the tag
in react
               as an attribute within
               double curly braces
                                              import React, { useState } from 'react';
                                              function ToggleMessage() {
                                                const [isVisible, setIsVisible] = useState(true);
const toggleVisibility = () => {
                                                  setIsVisible(!isVisible);
                                                const messageStyle = {
  display: isVisible ? 'block' : 'none',
  color: 'green',
  fontSize: '18px',
  marginTop: '10px'
                                                }:
                                                return (
                                                  <div>
                                                     <h2>Toggle Message</h2>
               Style can be applied as
                                                    Style using
               an object like inline
object
                                                    </button>
               style
                                                     This is a hidden message.
                                                  </div>
                                             );
```

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