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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>
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'];

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Array can be declared
                                                      const [todos, setTodos] = useState(['Learn React', 'Build Project']);
Stateful Array
                   using useState
                   Arrays can be
                                                      const numbers = []; for (let i = 0; i < 10; i++) {
Dynamically
                   constructed
Constructed
                   dynamically based on
                                                        numbers.push(i);
Arrays
                   application logic or
                   received data
                   The map() method is
                   commonly used to
                                                      const items = ['Apple', 'Banana', 'Orange'];
Array map()
                   iterate over each
                                                      \texttt{const itemList = items.map((item, index) => <1i key=\{index\}>\{item\}</1i>);}
                                                      return {itemList};
method
                   element of an array
                   and return a new array
                   of React elements
                                                       const items = ['Apple', 'Banana', 'Orange'];
                   You can use the for...of
                                                      for (const item of items) {
for...of Loop
                   loop to iterate over the
                                                        console.log(item);
                   elements of an array:
                                                      import React from 'react'
                                                          <div>
                   You can render a list of
                                                            <h1> Seasons Names</h1>
                   items by mapping over
Rendering a
                                                              an array and returning
List of Items
                                                              ))}
                   a JSX element for each
                                                        </u1>
                   item
                                                          </div>
                                                        );
                                                      export default ArrayComponent;
                                                      import React, { useState } from 'react';
                                                      function MyComponent()
                                                        const [items, setItems] = useState([ 'Autumn' , 'const [inputValue, setInputValue] = useState('');
const addItem = () => {
    setItems([...items, inputValue]);
    setInputValue('');
}
                                                                                                           'Spring', 'Winter', 'Summer']);
                                                        const removeItem = (index) => {
  const newItems = [...items];
                                                          newItems.splice(index, 1);
                                                          setItems (newItems);
                                                        return (
                   You can add or remove
                                                          <div>
Adding and
                                                            <h1>Fruits</h1>
                   items from an array
                                                            <u1>
removing
                                                              \{items.map((item, index) => (
                   using state and React's
items in array
                                                                key={index}>
                   setState method
                                                                   {item}
                                                                  <button onClick={() => removeItem(index)}>Remove</button>
                                                                ))}
                                                            </u1>
                                                            <input</pre>
                                                              type="text"
                                                              value={inputValue}
                                                              onChange={(e) => setInputValue(e.target.value)}
                                                            <button onClick={addItem}>Add</button>
                                                          </div>
                                                        );
                                                       import React, { useState } from 'react';
                                                      function ArrayComponent()
                                                          const [items, setItems] = useState(['React JS','Vue JS','Angular JS','Vanilla JS']);
                                                          <div>
                                                             <h1>Front End Languages</h1>
                                                             \{\text{items.length} > 0 ? (
Conditional
                   You can conditionally
                                                              <u1>
                                                                {items.map((item, index) => (
rendering
                   render components
                                                                   \langle 1i \text{ key=} \{index} \rangle \{item} \langle /1i \rangle
                                                                ))}
using ternary
                   based on the content of
                                                              </u1>
operator
                   an array
                                                            ) :
                                                              No Front End language is available
                                                          </div>
                                                        );
                                                      export default ArrayComponent;
```

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inline style in react	Inline style can be applied within the tag as an attribute within double curly braces	<pre>import React from 'react'; function MyComponent() { return (</pre>
Style using object	Style can be applied as an object like inline style	<pre>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></div></pre>



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