

FRAMEWORK = All in

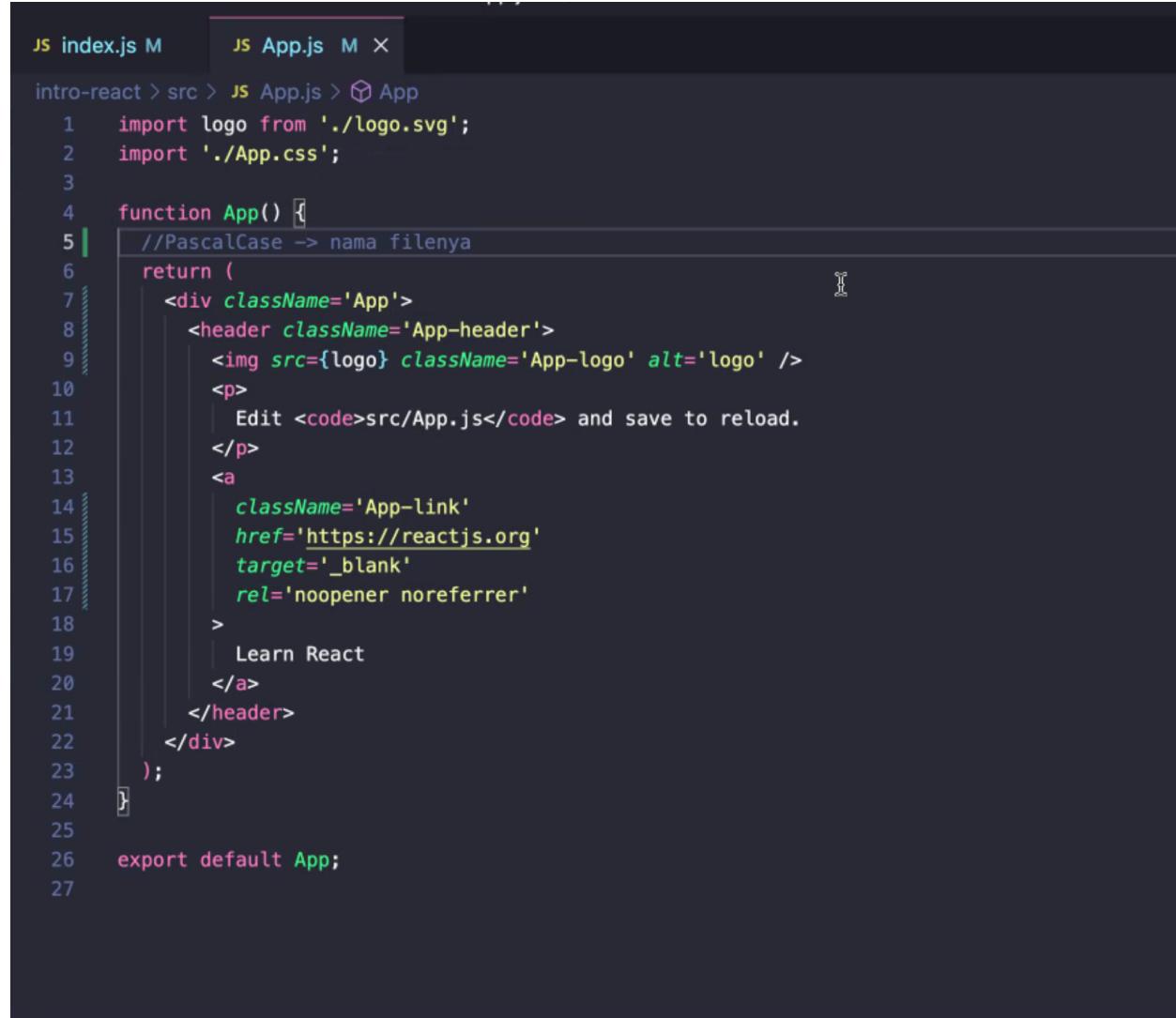
REACT = Tidak terbatas – Website & Mobile Apps

Create React App

[Create React App](#) is a comfortable environment for **learning React**, and is the best way to start building **a new single-page application** in React.

It sets up your development environment so that you can use the latest JavaScript features, provides a nice developer experience, and optimizes your app for production. You'll need to have Node >= 14.0.0 and npm >= 5.6 on your machine. To create a project, run:

```
npx create-react-app my-app  
cd my-app  
npm start
```



```
JS index.js M JS App.js M X  
  
intro-react > src > JS App.js > App  
1 import logo from './logo.svg';  
2 import './App.css';  
3  
4 function App() {  
5   //PascalCase -> nama filenya  
6   return (  
7     <div className='App'>  
8       <header className='App-header'>  
9         <img src={logo} className='App-logo' alt='logo' />  
10        <p>  
11          Edit <code>src/App.js</code> and save to reload.  
12        </p>  
13        <a  
14          className='App-link'  
15          href='https://reactjs.org'  
16          target='_blank'  
17          rel='noopener noreferrer'  
18        >  
19          Learn React  
20        </a>  
21      </header>  
22    </div>  
23  );  
24}  
25  
26 export default App;
```

JSX - <https://reactjs.org/docs/introducing-jsx.html#gatsby-focus-wrapper>

EXPLORER

...

✓ OPEN EDITORS

- JS index.js intro-react/src M
- X JS App.js intro-react/src M
- { } package.json intro-react

✓ D1

- > client
- ✓ intro-react •
 - > node_modules
 - > public
 - ✓ src •
 - > components
 - > pages
 - # App.css
 - JS App.js M
 - JS App.test.js
 - # index.css
 - JS index.js M
 - SVG logo.svg
 - JS reportWebVitals.js
 - JS setupTests.js
 - ❖ .gitignore
 - { } package-lock.json
 - { } package.json
 - ⓘ README.md M
 - > server

INCREMENT

The screenshot shows the VS Code interface with the 'INCREMENT' feature implemented in the `App.js` file. The code defines a function `App` that returns a component with a counter and two buttons for incrementing and decrementing it.

```

introduction > src > App.js > App
2 import MainHeader from './components/MainHeader';
3 import { useState } from 'react';
4
5 function App() {
6   // local state (data)
7   // PascalCase -> nama filenya
8   const [counter, setCounter] = useState(1);
9
10  // handle event
11
12  return (
13    <div className='App'>
14      <h1>{counter}</h1>
15      <button
16        type='button'
17        style={{
18          marginRight: '15px',
19        }}
20        // @click == v-on:click
21        onClick={() => {
22          console.count('increment');
23          setCounter(value: React.SetStateAction<number>): void
24          setCounter(counter + 1)
25        }}
26      >
27        Increment
28      </button>
29      <button type='button' onClick={() => console.count('decrement')}>
30        Decrement
31      </button>
32      <MainHeader />
33    </div>
34  )
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```

EXPLORER ... JS index.js M JS App.js M JS MainHeader.js 1, U ⓘ README.md M

intro-react > src > components > JS MainHeader.js > MainHeader

```

1 import logo from '../logo.svg';
2
3 export default function MainHeader({ count }) {
4   return (
5     <header className='App-header'>
6       <img src={logo} className='App-logo' alt='logo' />
7       <p>
8         Edit count <code>src/App.js</code> and save to reload.
9       </p>
10      <a
11        className='App-link'
12        href='https://reactjs.org'
13        target='_blank'
14        rel='noopener noreferrer'
15      >
16        Learn React
17      </a>
18    </header>
19  );
20}
21

```

OPEN EDITORS 1 unsaved

- JS index.js intro-react/src M
- JS App.js intro-react/src M
- JS MainHeader.js intro-react/src/components>MainHeader 1, U
- ⓘ README.md intro-react M

D1

- > client
- > intro-react ●
- > node_modules
- > public
- > src ●
- > components ●
- JS MainHeader.js 1, U
- > pages
- # App.css
- JS App.js M
- JS App.test.js
- # index.css
- JS index.js M
- logo.svg
- JS reportWebVitals.js
- JS setupTests.js
- ∅ .gitignore
- { package-lock.json
- { package.json
- ⓘ README.md M
- > server

TERMINAL DEBUG CONSOLE PROBLEMS 1 OUTPUT

FUNCTION BIAR GA REDUNDAN

EXPLORER ... JS index.js M JS App.js M ● JS MainHeader.js U ⓘ README.md M

intro-react > src > JS App.js > App

```

1 function App() {
2   // local state (data)
3   // PascalCase -> nama filenya
4   const [counter, setCounter] = useState(1);
5
6   const incrementCounter = (number) => {
7     console.count('increment');
8     setCounter(counter + number);
9     // undefined
10  };
11
12  return (
13    <div className='App'>
14      <h1>{counter}</h1>
15      <button>
16        <button>
17          <button>
18            type='button'
19            onClick={() => {
20              console.count('decrement');
21              setCounter(counter - 1);
22            }}
23        >
24          Decrement
25        </button>
26      <MainHeader count={counter} />
27    </div>
28  );
29}
30
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```

OPEN EDITORS 1 unsaved

- JS index.js intro-react/src M
- JS App.js intro-react/src M
- JS MainHeader.js intro-react/src/components>MainHeader U
- ⓘ README.md intro-react M

D1

- > client
- > intro-react ●
- > node_modules
- > public
- > src ●
- > components ●
- JS MainHeader.js U
- > pages
- # App.css
- JS App.js M
- JS App.test.js
- # index.css
- JS index.js M
- logo.svg
- JS reportWebVitals.js
- JS setupTests.js
- ∅ .gitignore
- { package-lock.json
- { package.json
- ⓘ README.md M
- > server

TERMINAL DEBUG CONSOLE PROBLEMS 1 OUTPUT

KIRIM PARAMETER

The screenshot shows the VS Code interface with the 'index.js' file open in the editor. The code defines a function `incrementCounter` that increments a counter by a specified number and logs the count to the console.

```

    ...
    JS index.js M   JS App.js M X JS MainHeader.js U   README.md M
    intro-react > src > JS App.js > App
    13 |     // undefined
    14 | };
    15 |
    16 | return (
    17 |   <div className='App'>
    18 |     <h1>{counter}</h1>
    19 |     <button
    20 |       type='button'
    21 |       style={{
    22 |         marginRight: '15px',
    23 |       }}
    24 |       // @click === v-on:click
    25 |       onClick={() => incrementCounter(1)}
    26 |     >
    27 |       Increment
    28 |     </button>
    29 |     <button
    30 |       type='button'
    31 |       style={{
    32 |         marginRight: '15px',
    33 |       }}
    34 |       // @click === v-on:click
    35 |       onClick={() => incrementCounter(5)}
    36 |     >
    37 |       Increment 5
    38 |     </button>
    39 |     <button
    40 |       type='button'
    41 |       onClick={() => {
    42 |         console.count('decrement');
    43 |         setCounter(counter - 1);
    44 |       }
    45 |     };
```

REACT FORM

The screenshot shows the VS Code interface with the 'index.js' file open in the editor. The code defines a component that includes a login form with fields for username and password, and a submit button. It also includes a counter and a MainHeader component.

```

    ...
    JS index.js M   JS App.js 2, M ● JS MainHeader.js U   README.md M
    intro-react > src > JS App.js > App
    8 |     const [counter, setCounter] = useState(1);
    9 |     // const [username, setUsername] = useState('');
    10 |     // const [password, setPassword] = useState('');
    11 |     const [loginInput, setLoginInput] = useState({
    12 |       username: '',
    13 |       password: '',
    14 |     });
    15 |
    16 |     const incrementCounter = (number) => {
    17 |       console.count('increment');
    18 |       setCounter(counter + number);
    19 |     };
    20 |
    21 |     return (
    22 |       <div className='App'>
    23 |         <h1>{counter}</h1>
    24 |         <button>
    25 |           </button>
    26 |           <form>
    27 |             <label>Username</label>
    28 |             <input type='text' name='username' />
    29 |             <label>Password</label>
    30 |             <input type='text' name='password' />
    31 |             <input type='submit' />
    32 |           </form>
    33 |           <MainHeader count={counter} />
    34 |         </div>
    35 |     );
    36 |
    37 |   
```

ON SUBMIT UNTUK AXIOS

```

EXPLORER      ... JS index.js M JS App.js M X JS MainHeader.js U README.md M
OPEN EDITORS
  JS index.js intro-react/src M 9 // const [username, setUsername] = useState('');
  X JS App.js intro-react/src M 10 // const [password, setPassword] = useState('');
  JS MainHeader.js intro-react... U 11 const [loginInput, setLoginInput] = useState({
    README.md intro-react M 12   username: '',
    password: '',
  });
  D1 13   );
  > client 14   // v-model syntax sugar -> (v-bind, v-on:change)
  < intro-react 15   // r-model XXX
  > node_modules 16   > const incrementCounter = (number) => { ...
  > public 17   };
  < src 18   > const changeInputLogin = (e) => {
  < components 19   const { name, value } = e.target;
  < MainHeader.js 20   setLoginInput({
  > pages 21     ...loginInput,
  # App.css 22     [name]: value,
  JS App.js 23   });
  JS App.test.js 24   return (
  # index.css 25     <div className='App'>
  JS index.js 26       <h1>{counter}</h1>
  # logo.svg 27       <button onClick={incrementCounter}>
  JS reportWebVitals.js 28         </button>
  JS setupTests.js 29       <form onSubmit={changeInputLogin}>
  .gitignore 30         <label>Username</label>
  {} package-lock.json 31         <input type='text'
  {} package.json 32           name='username'
  README.md M 33           value={loginInput.username}
  > server 34         </input>
  46   );
  47   );
  48   );
  49   );
  50   );
  
```

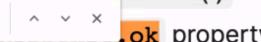
ON SUBMIT UNTUK AXIOS

```

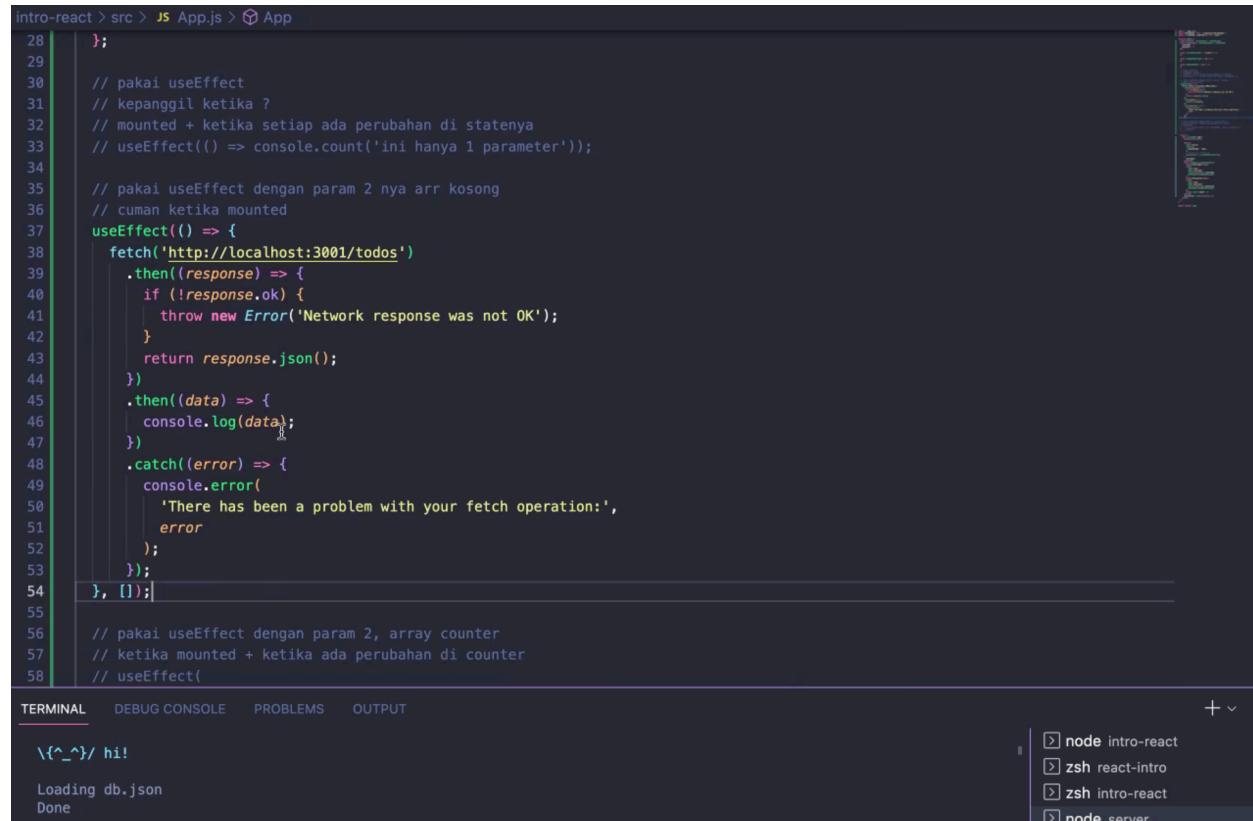
EXPLORER      ... JS index.js M JS App.js M X JS MainHeader.js U README.md M
OPEN EDITORS
  JS index.js intro-react/src M 15 // v-model syntax sugar -> (v-bind, v-on:change)
  X JS App.js intro-react/src M 16 // r-model XXX
  JS MainHeader.js intro-react... U 17   > const incrementCounter = (number) => { ...
  README.md intro-react M 22   };
  D1 23   );
  > client 24   const changeInputLogin = (e) => {
  < intro-react 25   const { name, value } = e.target;
  > node_modules 26   setLoginInput({
  > public 27     ...loginInput,
  < src 28     [name]: value,
  < components 29   });
  < MainHeader.js 30   const submitHandler = (e) => {
  > pages 31     e.preventDefault();
  # App.css 32     console.log('axiosss ', loginInput);
  JS App.js 33   );
  JS App.test.js 34   return (
  # index.css 35     <div className='App'>
  JS index.js 36       <h1>{counter}</h1>
  # logo.svg 37       <button onClick={incrementCounter}>
  JS reportWebVitals.js 38         </button>
  JS setupTests.js 39       <form onSubmit={submitHandler}>
  .gitignore 40         <label>Username</label>
  {} package-lock.json 41         <input type='text'
  {} package.json 42           name='username'
  README.md M 43           value={loginInput.username}
  > server 44           onChange={changeInputLogin}
  51   );
  52   );
  53   );
  54   );
  55   );
  56   );
  
```

Conditional

FETCHING DATA

would include checking that the promise resolved, then  has a value of true. The code would look something like this:

```
fetch('flowers.jpg')
  .then((response) => {
    if (!response.ok) {
      throw new Error('Network response was not OK');
    }
    return response.blob();
  })
  .then((myBlob) => {
    myImage.src = URL.createObjectURL(myBlob);
  })
  .catch((error) => {
    console.error('There has been a problem with your fetch operation:', error);
  });
}
```



The screenshot shows the VS Code interface with the code editor and terminal tabs visible.

Code Editor:

```
intro-react > src > JS App.js > ⚡ App
28 | };
29 |
30 // pakai useEffect
31 // ke panggil ketika ?
32 // mounted + ketika setiap ada perubahan di statenya
33 // useEffect(() => console.count('ini hanya 1 parameter'));
34 |
35 // pakai useEffect dengan param 2 nya arr kosong
36 // cuman ketika mounted
37 useEffect(() => {
38   fetch('http://localhost:3001/todos')
39     .then((response) => {
40       if (!response.ok) {
41         throw new Error('Network response was not OK');
42       }
43       return response.json();
44     })
45     .then((data) => {
46       console.log(data);
47     })
48     .catch((error) => {
49       console.error(
50         'There has been a problem with your fetch operation:',
51         error
52       );
53     });
54 }, [1]);
55 |
56 // pakai useEffect dengan param 2, array counter
57 // ketika mounted + ketika ada perubahan di counter
58 // useEffect(
```

Terminal:

```
\{^_^\} hi!
Loading db.json
Done
```

Output:

- node intro-react
- zsh react-intro
- zsh intro-react
- node server

```
intro-react > src > JS App.js > ⚡ App
64 |   // _[counter]
65 |   // );
66 |
67 |   return [
68 |     <div className='App'>
69 |       <table>
70 |         <tr>
71 |           <th>No</th>
72 |           <th>Todo</th>
73 |           <th>Desc</th>
74 |         </tr>
75 |         {todos.map((todo, idx) => (
76 |           <tr key={todo.id}>
77 |             <td>{idx + 1}</td>
78 |             <td>{todo.title}</td>
79 |             <td>{todo.description}</td>
80 |           </tr>
81 |         )));
82 |       </table>
83 |       <h1>{counter}</h1>
84 |
85 |     <button>...
86 |   </button>
87 |   <form onSubmit={submitHandler}>
88 |     <label>Username</label>
89 |     <input
90 |       type='text'
91 |       name='username'
92 |       value={loginInput.username}
93 |       onChange={changeInputLogin}
94 |     />
95 |   </form>
96 | 
```

TERMINAL DEBUG CONSOLE PROBLEMS 1 OUTPUT

```
\{^_^\} hi!
Loading db.json
Done
```

+ z node intro-react
zsh react-intro
zsh intro-react
node server

CARA FETCH KEDUA

```
intro-react > src > JS App.js > ⚡ App
66 |   const todoMap = () => {
67 |     const output = [];
68 |     todos.forEach((todo, idx) => {
69 |       output.push(
70 |         <tr key={todo.id}>
71 |           <td>{idx + 1}</td>
72 |           <td>{todo.title}</td>
73 |           <td>{todo.description}</td>
74 |         </tr>
75 |       );
76 |     });
77 |     return output;
78 |   };
79 |
80 |   return (
81 |     <div className='App'>
82 |       <table>
83 |         <tr>
84 |           <th>No</th>
85 |           <th>Todo</th>
86 |           <th>Desc</th>
87 |         </tr>
88 |         {todos.map((todo, idx) => (
89 |           <tr key={todo.id}>
90 |             <td>{idx + 1}</td>
91 |             <td>{todo.title}</td>
92 |             <td>{todo.description}</td>
93 |           </tr>
94 |         )));
95 |       {todoMap()}
96 |     </table>
97 |   );
98 | 
```

TERMINAL DEBUG CONSOLE PROBLEMS 1 OUTPUT

```
\{^_^\} hi!
Loading db.json
Done
```

+ z node intro-react
zsh react-intro
zsh intro-react
node server

COMPONENTS

The screenshot displays two separate instances of a React application within the Visual Studio Code interface. Both instances show the same file structure in the Explorer sidebar, featuring a client directory containing node_modules, public, and src folders. The src folder contains components, pages, and a MainHeader.js file. The bottom instance also includes a server directory with db.json.

Top Instance (TodoRow.js):

```

1 export default function TodoRow([ todo, idx ]) {
2   return (
3     <tr>
4       <td>(idx + 1)</td>
5       <td>{todo.title}</td>
6       <td>{todo.description}</td>
7     </tr>
8   );
9 }
10

```

Bottom Instance (TodoTable.js):

```

1 import { useState, useEffect } from 'react';
2 import TodoRow from './TodoRow';
3
4 export default function TodoTable() {
5   const [loading, setLoading] = useState(true);
6   const [todos, setTodos] = useState([]);
7   useEffect(() => {
8     fetch('http://localhost:3001/todos')
9       .then(response) => {
10         if (!response.ok) {
11           throw new Error('Network response was not OK');
12         }
13         return response.json();
14       }
15       .then(data) => {
16         setTodos(data);
17         console.log(data);
18       }
19       .catch(error) => {
20         console.error(
21           'There has been a problem with your fetch operation:',
22           error
23         );
24       }
25       .finally(() => setLoading(false));
26   }, []);
27   return (
28     <table>
29       <tr>
30         <th>No</th>
31         <th>Todo</th>
32       </tr>
33       { todos.map(todo) }
34     </table>
35   );
36 }

```

In both instances, the terminal shows the command `node intro-react` being run, indicating the application is being executed locally.

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER**: Shows the project structure with files like `index.js`, `App.js`, `TodoTable.js`, `TodoRow.js`, `README.md`, `db.json`, and `MainHeader.js`.
- OPEN EDITORS**: Displays the code for `TodoTable.js`. The code handles fetching data from `todos.map()` and logs an error if there's a problem with the fetch operation.
- TERMINAL**: Shows the command `\(^_^\)/ hi!` being typed, followed by "Loading db.json" and "Done".
- PROBLEMS**: Shows one error: `introduction-react > src > components > TodoTable.js > TodoTable > todos.map() callback`.
- OUTPUT**: Shows the output of the node server process.
- COMMAND PALETTES**: Shows recent commands: `node intro-react`, `zsh react-intro`, `zsh intro-react`, and `node server`.

