

Joke Generator Using React and Joke API

Overview

This is a simple Joke Generator application built using React. It fetches programming-related jokes from the JokeAPI and displays them on the screen. The app consists of three main components:

1. `App.js` - The root component.
2. `Joke.js` - Fetches and displays a joke.
3. `Button.js` - A button to fetch a new joke.

Project Structure

```
/joke-generator
├── /src
│   ├── App.js
│   ├── Joke.js
│   ├── /components
│   │   └── Button.js
│   ├── /styles
│   │   ├── Joke.css
│   │   └── Button.css
│   └── index.js
├── package.json
└── README.md
```

Installation

Clone the repository:

```
git clone https://github.com/brahmaputraS/react-project.git
```

- 1.

Navigate to the project folder:

```
cd joke-generator
```

- 2.

Install dependencies:

```
npm install
```

3.

Start the development server:

```
npm start
```

4.

Components

1. App.js

This is the main component of the app. It renders the heading and includes the `Joke` component.

```
import Joke from "../Joke";  
import './Joke.css';
```

```
function App() {  
  return (  
    <div className="App">  
      <h1>Joke Generator Using React and Joke API</h1>  
      <Joke/>  
    </div>  
  );  
}
```

```
export default App;
```

2. Joke.js

This component fetches a joke from the JokeAPI and displays it. It includes a button to fetch new jokes.

```
import React from "react";  
import Button from "../components/Button";  
import './Joke.css';  
  
const Joke = () => {  
  const [joke, setJoke] = React.useState("");
```

```

const fetchApi = () => {
  fetch("https://sv443.net/jokeapi/v2/joke/Programming?type=single")
    .then((res) => res.json())
    .then((data) => setJoke(data.joke));
};

return (
  <div className="joke">
    <Button callApi={fetchApi} />
    <br/>
    <p>{joke}</p>
  </div>
);
}

export default Joke;

```

3. Button.js

A simple button component that triggers the `fetchApi` function.

```

import React from "react";
import './Button.css';

const Button = (props) => {
  return <button onClick={props.callApi}>
    Click to generate a joke.
  </button>;
}

export default Button;

```

Styling

Create `Joke.css` and `Button.css` for styling the components.

Joke.css

```

.joke {
  text-align: center;
  margin-top: 20px;
  font-size: 1.2rem;
}

```

```
}
```

Button.css

```
button {  
  padding: 10px 20px;  
  font-size: 1rem;  
  background-color: #008cba;  
  color: white;  
  border: none;  
  cursor: pointer;  
  border-radius: 5px;  
}
```

```
button:hover {  
  background-color: #005f73;  
}
```

API Used

JokeAPI - Fetches programming-related jokes.

- Endpoint: <https://sv443.net/jokeapi/v2/joke/Programming?type=single>
- Response Example:

```
{  
  "error": false,  
  "category": "Programming",  
  "type": "single",  
  "joke": "Why do programmers prefer dark mode? Because light attracts bugs!"  
}
```

Screenshot



Conclusion

This project demonstrates how to use React with an external API to build a simple yet functional joke generator. You can extend the app by adding categories, enhancing UI, or storing favorite jokes.
