Building a Blogging Platform:

> *23. Use PropTypes to Define the Props You Expect:*

− *Add PropTypes to a `BlogPost.jsx` component to validate props like `title`, `content`, and `author`.*

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1. **Folder Structure:**

```
src/
├── components/
│        ├── BlogPost.jsx
│        ├── BlogList.jsx
├── App.js
├── App.css
└── index.js
```

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2. **Install PropTypes:**

```
npm install prop-types
```

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3. **BlogPost.jsx:**

```jsx
// src/components/BlogPost.jsx

import React from 'react';
import PropTypes from 'prop-types';
import './BlogPost.css';

const BlogPost = ({ title, content, author }) => {
 return (
   <div className="blog-post">
    <h2>{title}</h2>
    <p>{content}</p>
    <p>
     <strong>Author:</strong> {author}
    </p>
```

```
        </div>
     );
  };

  // Define PropTypes
  BlogPost.propTypes = {
   title: PropTypes.string.isRequired, // `title` must be a string
   content: PropTypes.string.isRequired, // `content` must be a string
   author: PropTypes.string, // `author` is optional
  };

  // Default Props
  BlogPost.defaultProps = {
   author: 'Anonymous', // If no author is provided
  };

export default BlogPost;
```

4. BlogList.jsx:

```
  // src/components/BlogList.jsx

  import React from 'react';
  import BlogPost from './BlogPost';

  const BlogList = ({ blogs }) => {
   return (
    <div className="blog-list">
     {blogs.map((blog, index) => (
       <BlogPost
        key={index}
        title={blog.title}
        content={blog.content}
        author={blog.author}
       />
     ))}
    </div>
   );
  };

export default BlogList;
```

5. App.js:

```
// src/App.js

import React from 'react';
import BlogList from './components/BlogList';
import './App.css';

function App() {
 const blogs = [
   { title: 'The Beauty of React', content: 'React is a powerful library...', author: 'Het Dabhi' },
   { title: 'PropTypes in Action', content: 'Using PropTypes ensures better code...', author: 'Dhruv Dabhi' },
   { title: 'Components Simplified', content: 'Components are the building blocks of React.',author: 'Raj Dabhi' },
 ];

 return (
  <div className="App">
    <h1>Blogging Platform</h1>
    <BlogList blogs={blogs} />
  </div>
 );
}

export default App;
```

6. BlogPost.css:

```
/* src/components/BlogPost.css */

/* General Variables */
:root {
  --border-color: #ccc;
  --background-color: #fff;
  --primary-color: #4caf50;
  --text-color: #333;
}

/* BlogPost Styles */
.blog-post {
  border: 1px solid var(--border-color);
  border-radius: 12px;
  padding: 20px;
```

```css
  margin: 20px 0;
  background: linear-gradient(145deg, var(--background-color), #f9f9f9);
  box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.1), -4px -4px 10px rgba(255, 255, 255, 0.5);
  transition: transform 0.3s ease, box-shadow 0.3s ease;
}

.blog-post:hover {
  transform: translateY(-5px);
  box-shadow: 6px 6px 15px rgba(0, 0, 0, 0.2), -6px -6px 15px rgba(255, 255, 255, 0.7);
}

.blog-post h2 {
  margin: 0 0 10px;
  font-size: 1.8rem;
  color: var(--primary-color);
  text-transform: uppercase;
  letter-spacing: 1px;
}

.blog-post p {
  margin: 5px 0;
  font-size: 1rem;
  line-height: 1.6;
  color: var(--text-color);
}

.blog-post strong {
  color: var(--primary-color);
}

/* Unique Animations */
@keyframes highlight {
  0% {
    background-color: var(--primary-color);
    color: white;
    transform: scale(1.1);
  }
  100% {
    background-color: var(--background-color);
    color: var(--text-color);
    transform: scale(1);
  }
}

.blog-post:hover h2 {
  animation: highlight 0.4s ease-in-out;
}
```

```css
/* Add a Subtle Glow */
.blog-post:hover {
  border: 1px solid var(--primary-color);
}
```

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7.   App.css:

```css
/* src/App.css */
.App {
  font-family: Arial, sans-serif;
  text-align: center;
  background-color: #f4f4f4;
  padding: 20px;
}

.blog-list {
  max-width: 600px;
  margin: 0 auto;
}
```

Output: (Run the App)