TASK-20

20. Pass an Array as Props:

− Create a `Library.jsx` component that takes an array of books and renders a list of `BookCard` components.

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1. Create Library.jsx Component:

```jsx
// /src/components/Library.jsx

import React from 'react';
import BookCard from './BookCard'; // Import the BookCard component
import '../styles/Library.css'; // Import the CSS file for styling

// Stateless functional component to render the list of books
const Library = ({ books }) => {
 return (
   <div className="library">
    <h2>Library Management System</h2>

    {/* Map over the books and pass each book's data as props to BookCard */}
    <div className="book-list">
     {books.map((book, index) => (
       <BookCard
        key={index}
        title={book.title}
        author={book.author}
        availability={book.availability}
       />
     ))}
    </div>

    {/* Design credit */}
    <div className="design-credit">
     <p>@Design By Het Dabhi</p>
    </div>
   </div>
 );
};

export default Library;
```

2. Update BookCard.jsx:

```jsx
// /src/components/BookCard.jsx

import React from 'react';

// Stateless functional component to display book details
const BookCard = ({ title, author, availability }) => {
  return (
    <div className="book-card">
      <h3>{title}</h3>
      <p><strong>Author:</strong> {author}</p>
      <p><strong>Availability:</strong> {availability ? 'Available' : 'Not Available'}</p>
    </div>
  );
};

export default BookCard;
```

3. Update App.js:

```jsx
// /src/App.js

import React from 'react';
import Library from './components/Library'; // Import the Library component

function App() {
  // Array of books to pass as props to Library component
  const books = [
    { title: 'Ramayan', author: 'Valmiki', availability: true },
    { title: 'Mahabharat', author: 'Vyasa', availability: false },
    { title: 'Krishna Leela', author: 'Various', availability: true },
    { title: 'Bhagavad Gita', author: 'Vyasa', availability: true },
    { title: 'Upanishads', author: 'Various', availability: false },
    { title: 'Panchatantra', author: 'Vishnu Sharma', availability: true },
  ];

  return (
    <div className="App">
      {/* Pass books array as props to Library */}
      <Library books={books} />
    </div>
  );
}
```

```
export default App;
```

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4. *Update CSS (if necessary):*

```css
/* /src/styles/Library.css */

/* Styling for the library container */
.library {
  width: 80%;
  margin: 20px auto;
  padding: 20px;
  background-color: #f7f7f7;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  text-align: center;
}

/* Styling for the book list container */
.book-list {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-around;
}

/* Styling for each book card */
.book-card {
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  margin: 10px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  width: 250px;
  text-align: left;
}

.book-card h3 {
  font-size: 1.5em;
  margin-bottom: 10px;
}

.book-card p {
  font-size: 1.2em;
}
```

```css
.book-card p strong {
  font-weight: bold;
}

.book-card p {
  margin: 5px 0;
}

/* Styling for the design credit text at the bottom */
.design-credit {
  margin-top: 40px;
  font-size: 1.2em;
  color: #777;
  font-style: italic;
}
```