React js Component Creation

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Source Code:

Card Component : Card.js

```javascript
import React from "react"; import PropTypes from "prop-types"; import
styled from "styled-components";
 const CardContainer = styled.div` border: 1px solid #ccc; border-radius: 5px;
padding: 10px; margin: 10px; box-shadow: 0 2px 1000px rgba(0, 0, 0, 0.1);
background-color: cyan;
  transition: box-shadow 0.3s ease;
  &:hover { box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2); } `;

const Image = styled.img` width: 100%; height: auto;
  border-radius: 10px;
`;
```

```
const Title = styled.h3`
  color: #333;
`;

const Description = styled.p` color:
  #666;
`;

const Card = ({ title, description, image }) => {
  return (
    <CardContainer>
      {image && <Image src={image} alt={title} />}
      <Title>{title}</Title>
      <Description>{description}</Description>
    </CardContainer>
  );
};

Card.propTypes = { title:
  PropTypes.string.isRequired,
  description:
  PropTypes.string.isRequired, image:
  PropTypes.string,
};

export default Card;
```

Button Componenet: Button.js

```
import React from "react"; import PropTypes
from "prop-types"; import styled from "styled-
components";
 const StyledButton = styled.button`  background-color:  ${(props)  =>
props.backgroundColor || "#007bff"}; color: ${(props) => props.color ||
"#fff"}; border: none; border-radius: 10px; padding: 0px 0px; cursor: pointer;
margin: 5px;
  transition: background-color 0.3s ease;
  &:hover {
```

```jsx
    background-color: ${(props) => props.hoverBackgroundColor || "#0056b3"};
  }
`;

const Button = ({
  onClick, text,
  backgroundColor,
  color,
  hoverBackgroundColor,
}) => { return
  (
    <StyledButton onClick={onClick}
      backgroundColor={backgroundColor}
      color={color}
      hoverBackgroundColor={hoverBackgroundColor}
    >
      {text}
    </StyledButton>
  );
};

Button.propTypes      =      {      onClick:
  PropTypes.func.isRequired,          text:
  PropTypes.string.isRequired,
  backgroundColor:        PropTypes.string,
  color:                  PropTypes.string,
  hoverBackgroundColor: PropTypes.string,
};

export default Button;
```

App component: App.js

```jsx
import React from "react";
import Card from "./components/Card";
import Button from "./components/Button";
import "./Card.css";
import "./App.css";

const  App  =  ()  =>  {  const
  handleButtonClick = () => {
```

```
    alert("Welcome to Bikes world");
  };

  return (
    <div className="app-container">
      <h1>Musical Instruments</h1>
      <div className="card-container">
        <Card title="Guitar" description="Origin: Spain"
          image="https://i0.wp.com/worldmusiccentral.org/wp-
content/uploads/guitar_1.jpg?fit=300%2C225&ssl=1"
        />
        <Card title="Dholak" description="Origin: Asia"
          image="https://upload.wikimedia.org/wikipedia/commons/thumb/3/3f/Dholak
_dhol_drum%2C_one_of_many_percussion_instruments_of_South_Asia.jpg/225px-
Dholak_dhol_drum%2C_one_of_many_percussion_instruments_of_South_Asia.jpg"
        />
        <Card title="Woodwind" description="Origin: US"
          image="https://i.pinimg.com/736x/d1/97/cc/d197ccf5acbdb2f4067e59820ad81
675.jpg"
        />
        <Card title="Djembe" description="Origin: Belgium"
          image="https://5.imimg.com/data5/AS/LB/MY-3212300/slide-
          trombone-
500x500.jpeg"
        />
        <Card title="Mandolin" description="Origin: Germany"
          image="https://cdn.britannica.com/66/142066-050-5827CAFC/Mandolin.jpg"
        />
      </div>

      <Button onClick={handleButtonClick} /> </div>
  ); }; export
default App;
```

App.css:

```css
.App { text-align: center;
}

.App-logo { height: 40vmin; pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo { animation: App-logo-spin infinite 20s linear; }
}

.App-header { background-color: #282c34; min-height: 100vh;
  display: flex; flex-direction: column; align-items: center;
  justify-content: center; font-size: calc(10px + 2vmin);
  color: white;
}

.App-link { color: #61dafb;
}

@keyframes App-logo-spin { from { transform: rotate(0deg);
  } to { transform: rotate(360deg);
  }
}

.app-container { background-color: white; background-
  size: cover;
```

```
    min-height: 100vh; display:
    flex; flex-direction:
    column; align-items:
    center; justify-content:
    center; color: #0a0a0a;
}
```

Output: