Assignment 2

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Page.js code:

```
"use client"
import React from 'react';
import Card from './components/Card';
import Button from './components/Button';

const App = () => {
 return (
   <div>
     <h1>Sample React Application</h1>
     <div style={{ display: 'flex', justifyContent: 'center' }}>
      <Card
        title="Example Card 1"
        description="This is a sample card component with a button."

imageUrl="https://cdni.autocarindia.com/Utils/ImageResizer.ashx?n=https://cms.haymarketindia.ne
t/model/uploads/modelimages/Mercedes-Benz-GLC-110820231043.jpg"
      >
        <Button text="Click me" onClick={() => alert('Button clicked!')} />
      </Card>
      <Card
        title="Example Card 2"
        description="This is another sample card component with a button."
        imageUrl="https://imgd-ct.aeplcdn.com/664x415/n/cw/ec/129907/q3-right-front-three-
quarter.jpeg"
      >
        <Button
         text="Click me too"
         onClick={() => alert('Another button clicked!')}
         backgroundColor="#28a745"
         hoverBackgroundColor="#218838"
        />
      </Card>
     </div>
   </div>
 );
};

export default App;
```

Card.jsx code:

```jsx
import React from 'react';
import PropTypes from 'prop-types';
import styled from 'styled-components';

const CardContainer = styled.div`
border: 1px solid #ccc;
border-radius: 8px;
padding: 16px;
margin: 16px;
width: 300px;
`;

const CardTitle = styled.h2`
margin-bottom: 8px;
`;

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

const CardImage = styled.img`
width: 100%;
height: auto;
border-radius: 8px;
`;

const Card = ({ title, description, imageUrl }) => {
return (
<CardContainer>
<CardTitle>{title}</CardTitle>
{imageUrl && <CardImage src={imageUrl} alt={title} />}
<CardDescription>{description}</CardDescription>
</CardContainer>
);
};

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

export default Card;
```

Button.Jsx code:

```jsx
import React from 'react';
import PropTypes from 'prop-types';
import styled from 'styled-components';

const ButtonElement = styled.button`
  background-color: ${(props) => props.backgroundColor || '#007bff'};
  color: ${(props) => props.color || '#fff'};
  border: none;
  border-radius: 4px;
  padding: 8px 16px;
  cursor: pointer;
  transition: background-color 0.3s;

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

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

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

export default Button;
```

OUTPUT: