

ASSIGNMENT-2

React.js Component Creation Assignment

File name : 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.net/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>
  );
};
```

```

        />
      </Card>
    </div>
  </div>
);
};
export default App;

```

File name : Card.jsx

Code :

```

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;

```

File name : Button.jsx

Code :

```

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:

Sample React Application

Example Card 1



This is a sample card component with a button.

Example Card 2



This is another sample card component with a button.