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## Assignment-2

**Aim:** To create reusable components like card components and buttons using React.js

- Here we used two components named “Button.jsx” and “Card.jsx” and integrated them in “page.js”

Code in **Button.jsx**

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

const ButtonElement = styled.button`
  background-color: ${(props) => props.backgroundColor || 'blue'};
  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 || 'blue'};
  }
`;

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;

```

## Code in **Card.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;

```

## Code in **page.js**

```

"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://cdn1.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

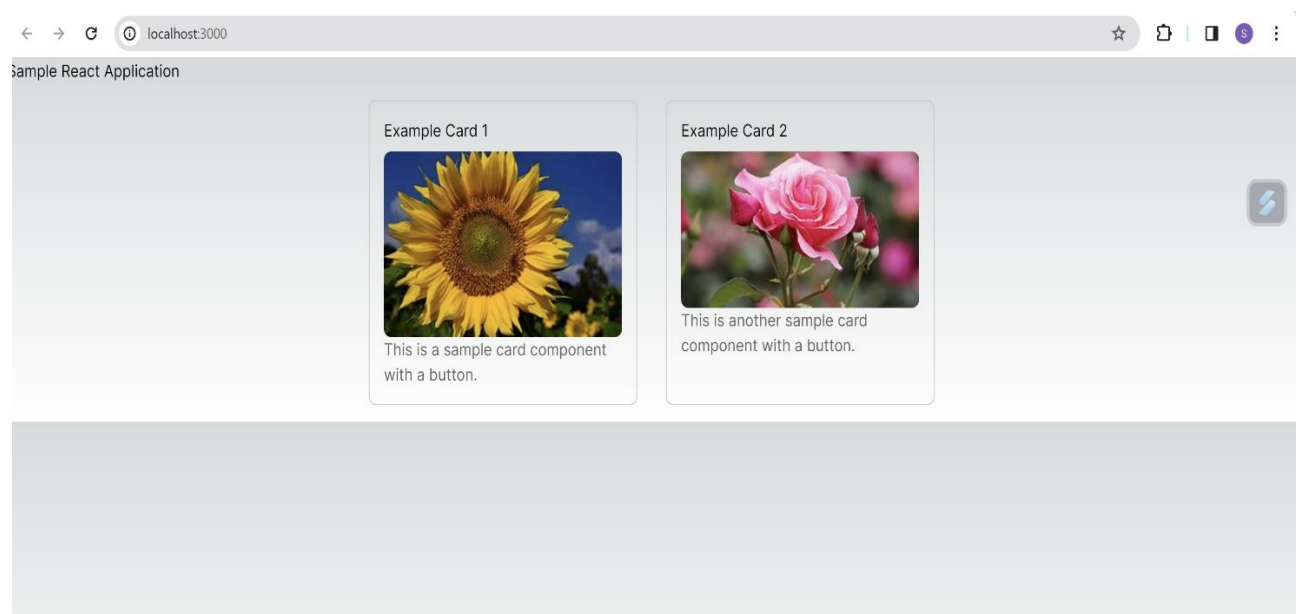
```

```
        text="Click me too"
        onClick={() => alert('Another button clicked!')}
        backgroundColor="#28a745"
        hoverBackgroundColor="#218838"
      />
    </Card>
  </div>
</div>
);
};

export default App;
```

This is the code where we integrated the card and button components into page.jsx.

Sample output:



**Fig: Output of the integration of Card and Button components**