# **React.js Component Creation**

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**Source Code:** 

**Button Component:** 

**Button.jsx:** 

**Button.css:** 

```
.card-btn{
text-align: center;
width: 90%;
border-radius: 5px;
padding: 0.5rem 1rem;
background-color: #2563eb;
color: white;
text-decoration: none;
margin: 0.5rem;
transition: 0.2s;
}
.card-btn:hover{
background: rgb(253, 2, 2);
}
```

## **Card-Component:**

#### Card.jsx:

```
import React from "react";
import "./card.css";
import Button from "./button";

export const Card = (props) => {
    const { imgSrc, imgAlt, title, description, buttonText, buttonLink } = props;

return (
    <div className="card-container">
    {imgSrc && imgAlt && (
        <imgSrc && imgAlt * width="200" height="300" className="card-img"/>
    )}
    {title && <h1 className="card-title">{title}</h1>}
    {description && className="card-description">{description}
}
    {buttonText && buttonLink && <Button text={buttonText} link={buttonLink} />}
    </div>
)
}
export default Card;
```

#### Card.css:

```
.card-container{
  width:14rem;
  border-radius: 1rem;
  box-shadow: 0px 10px 8px #999;
  display:flex;
  flex-direction: column;
  margin: 0.5rem;
  background-color: white;
  height:auto;
  transition: 0.3s;
  animation: ease-in;
.card-container:hover{
transform: scale(1.1);
box-shadow: 0px 0px 15px 0px;
.card-img{
  width: 100%;
  border-radius: 1rem 1rem 0 0;
.card-title,
.card-description
  margin: 0.5rem 5%;
```

# **App-Integration:**

#### App.jsx:

```
import "./App.css"
import { Card } from "./components/card"
import Button from "./components/button";
function App() {
 return (
  <div className="App">
  <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/4/47/Iron_Man_%28circa_2018%29.png"
    imgAlt="Iron-Man"
    title="Iron Man"
    description="The Armoured-Hero"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Iron_Man"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/b/bf/CaptainAmericaHughes.jpg"
    imgAlt="Captain-America"
    title="Captain-America"
    description="Super-Soldier"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Captain_America"
    <Card
    imgSrc="https://images-wixmp-ed30a86b8c4ca887773594c2.wixmp.com/f/2240a005-d430-4be0-9d03-
4386a474a1b8/d7w0noa-0225e811-d1e6-4676-9173-
b535bdf5884b.jpg?token=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1cm46YXBwOjdlMGQxODg5O
MGQ0MTV1YTBkMjZlMCIsIm9iaiI6W1t7InBhdGgiOiJcL2ZcLzIyNDBhMDA1LWQ0MzAtNGJlMC05ZDAzLTQz
ODZhNDc0YTFiOFwvZDd3MG5vYS0wMjI1ZTgxMS1kMWU2LTQ2NzYtOTE3My1iNTM1YmRmNTg4NGIuan
BnIn1dXSwiYXVkIjpbInVybjpzZXJ2aWNlOmZpbGUuZG93bmxvYWQiXX0.3QFYCXyxn8fn9YRB4CtzQVsny1c
xY32PvxBUqdp7P3A"
    imgAlt="Thor"
    title="Thor Odinson"
    description="The God of Thunder"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Thor_(Marvel_Comics)"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/a/aa/Hulk_%28circa_2019%29.png"
    imgAlt="Hulk"
    title="Hulk"
    description="The Incredible Hulk"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Hulk"
    imgSrc="https://upload.wikimedia.org/wikipedia/en/1/1b/Black_Widow_1.png"
    imgAlt="Black-Widow"
    title="Black-Widow"
    description="Spy Avenger"
```

```
buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Black_Widow_(Natasha_Romanova)"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/9/99/Hawkeye_%28Clinton_Barton%29.png"
    imgAlt="Hawkeye"
    title="Hawkeye"
    description="Hero with Sharp-shooting Skills"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Hawkeye_(Clint_Barton)"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/2/21/Web_of_Spider-Man_Vol_1_129-1.png"
    imgAlt="Spider-Man"
    title="Spider-Man"
    description="Teenage SuperHero with Spider Powers"
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Spider-Man"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/3/3e/Generations_Captain_Marvel_%26_Captain_Mar-
Vell.jpg"
    imgAlt="Captain-Marvel"
    title="Captain-Marvel"
    description=""
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Captain_Marvel_(Marvel_Comics)"
    <Card
    imgSrc=""
    imgAlt="Ant-Man"
    title="Ant-Man"
    description="Hero who can change his Size."
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Ant-Man"
    imgSrc="https://upload.wikimedia.org/wikipedia/en/9/97/Scarlet_Witch.jpg"
    imgAlt=""
    title="Scarlet-Witch"
    description="Witch who have reality-chanfing and mind-controlling abilities."
    buttonText="Show More"
    buttonLink="https://en.wikipedia.org/wiki/Scarlet_Witch"
    <Card
    imgSrc="https://upload.wikimedia.org/wikipedia/en/e/ea/Avengers_Vol_4_24.1.jpg"
    imgAlt="Vision"
    description="Android created by super-villain Ultron, who later turned into a hero."
    buttonText="Show More"
    buttonLink=""
```

```
} export default App;
```

## App.css:

```
.App{
display: flex;
flex-wrap:wrap;
align-items:flex-start;
justify-content:space-around;
height: 100vh;
background-color: #faf9f6;
}
```

#### **Index.css:**

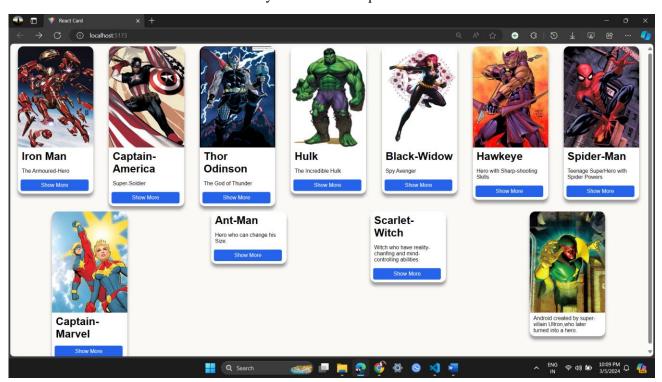
```
*{
box-sizing: border-box;
margin: 0px;
padding: 0px;
font-family: Arial, Helvetica, sans-serif;
}
```

## Approach:

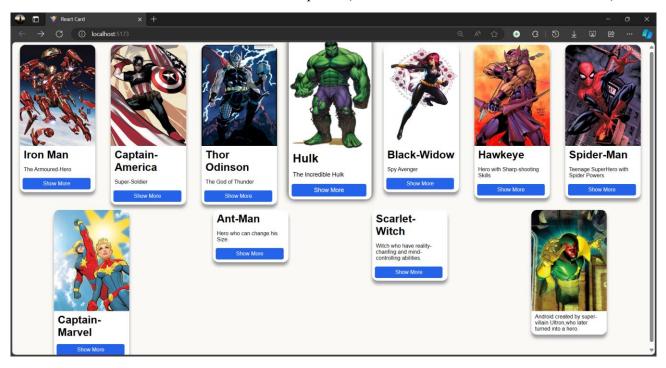
- 1. Initially button is assigned to accept the link.
- 2. In the button component, the button is given such that whenever the mouse is hovered over the button the color of turns from blue to red.
- 3. Card component is assigned with imgSrc, imgAlt, title, description and buttonText, buttonLink(where text and link are functioned using the button component).
- 4. In the card component either of the above props are not given then the prop is not rendered into the output.
- 5. In the card component whenever the mouse is hovered over the card, the card gets enlarged.
- 6. In the app integration, the required inputs for the card components.

#### **Outputs:**

1. When the mouse is not hovered over any of the card components.



2. When the mouse is hovered over the card component(mouse is hovered over the card named Hulk).



3. When the mouse is hovered over the button(mouse is hovered over the button of card named Hulk).

