React.js Component Creation

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Source Code:

Button Component:

Button.jsx:

```jsx
import React from "react";
import "./button.css";

const Button = ({ text, link }) => {
  return (
    <a href={link} className="card-btn">
      {text}
    </a>
  );
};

export default Button;
```

Button.css:

```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:

```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 && (
        <img src={imgSrc} alt={imgAlt} width="200" height="300" className="card-img"/>
      )}
      {title && <h1 className="card-title">{title}</h1>}
      {description && <p className="card-description">{description}</p>}
      {buttonText && buttonLink && <Button text={buttonText} link={buttonLink} />}
    </div>
  )
}

export default Card;
```

Card.css:

```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:

```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.eyJzdWIiOiJ1cm46YXBwOjdlMGQxODg5ODIyNjQzNzNhNWYwZDQxNWVhMGQyNmUwIiwiaXNzIjoidXJuOmFwcDo3ZTBkMTg4OTgyMjY0MzczYTVmMGQ0MTVlYTBkMjZlMCIsIm9iaiI6W1t7InBhdGgiOiJcL2ZcLzIyNDBhMDA1LWQ0MzAtNGJlMC05ZDAzLTQzODZhNDc0YTFiOFwvZDd3MG5vYS0wMjI1ZTgxMS1kMWU2LTQ2NzYtOTE3My1iNTM1YmRmNTg4NGIuanBnIn1dXSwiYXVkIjpbInVybjpzZXJ2aWNlOmZpbGUuZG93bmxvYWQiXX0.3QFYCXyxn8fn9YRB4CtzQVsny1cxY32PvxBUqdp7P3A"
        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"
      />
      <Card
        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"
      />
       <Card
        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"
        title=""
        description="Android created by super-villain Ultron,who later turned into a hero."
        buttonText="Show More"
        buttonLink=""
      />
    </div>
  );
```

```
}
export default App;
```

App.css:

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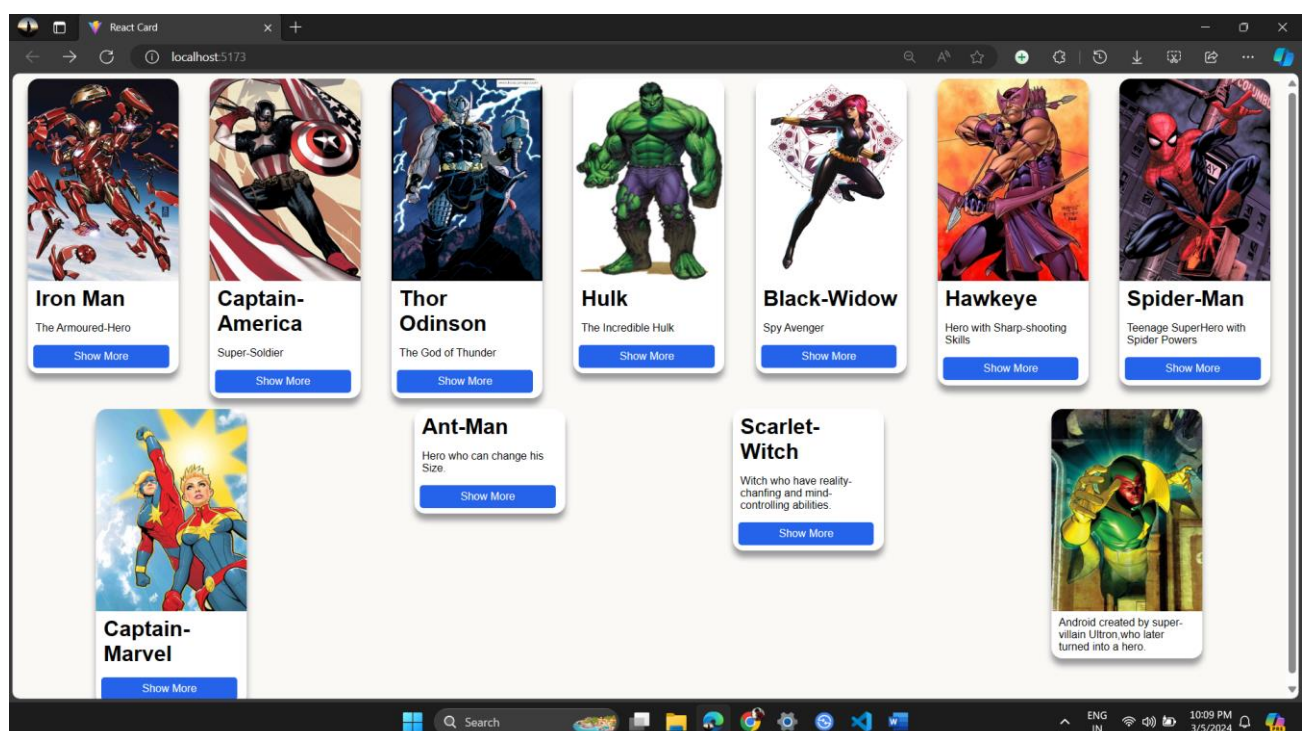
Index.css:

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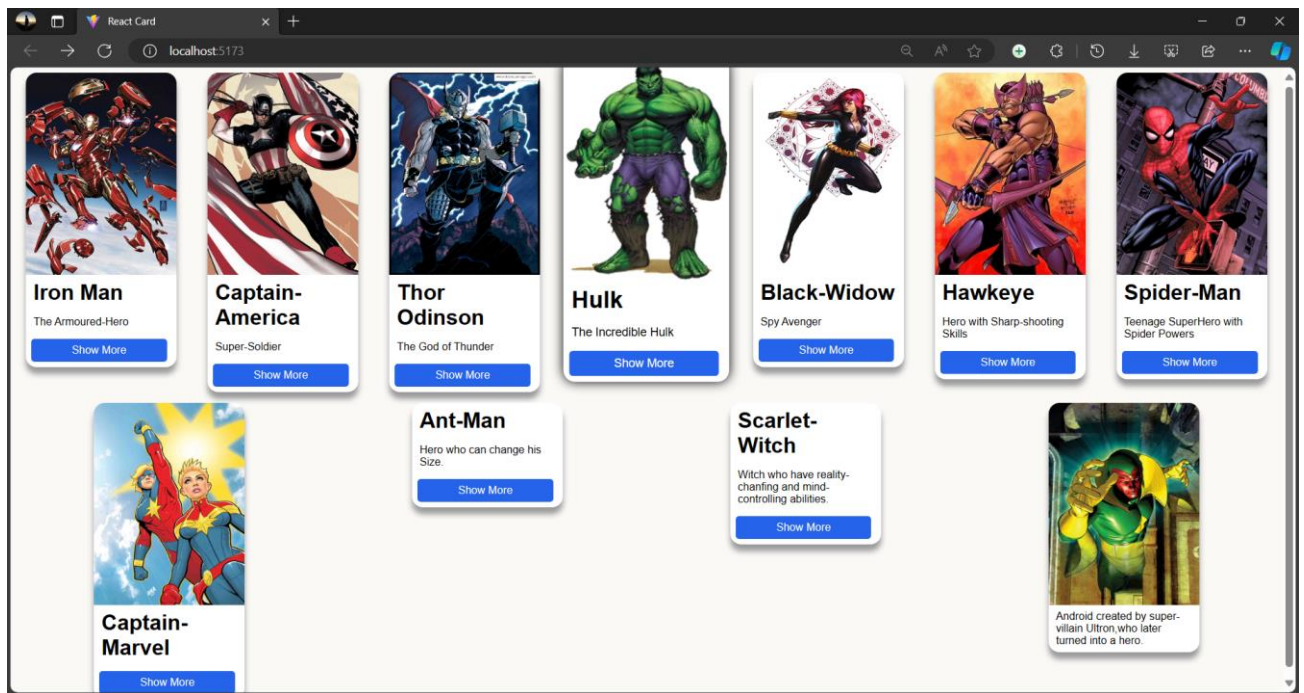
Approach:

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).