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-color: white;
    color: #2563eb;
}
```

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:16rem;
    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://i.pinimg.com/736x/fd/c1/67/fdc1678f6eced31b5ab6e3862eab8698.jpg"
        imgAlt="Malgudi Days"
        title="Malgudi Days"
        description="Malgudi Days is a novel that revolves around
        the happenings in a small fictional village named Malgudi,
        which is located on the banks of the river Sarayu in South India"
        buttonText="Download Book"
        buttonLink="https://eruditesdps.files.wordpress.com/2017/01/malgudi-days-narayan_-r-k_.pdf"
      />
      <Card
        imgSrc="https://images-na.ssl-images-
amazon.com/images/S/compressed.photo.goodreads.com/books/1328872382i/732482.jpg"
        imgAlt="Swami and Friends"
        title="Swami and Friends"
        description="The story revolves around a ten-year-old schoolboy named Swaminathan and his friends.
        The most striking quality of 10-year-old Swami is that he is a playful and mischievous boy."
        buttonText="Download Book"
        buttonLink="http://sxcsrannalibrary.co.in/sites/default/files/Swamy%20and%20Freinds-
%20R%20K%20Narayan.pdf"
      />
      <Card
        imgSrc="https://upload.wikimedia.org/wikipedia/en/2/20/ATigerForMalgudi.jpg"
        imgAlt="A Tiger for Malgudi"
        title="A Tiger for Malgudi"
        description="The tiger recounts his story of capture by a
         circus owner, but he never tried to escape.
         He lived freely in the wild jungles of India in his youth.
          He mates and has a litter with a tigress,
          and raises a litter until one day he finds that hunters
          have captured and killed his entire family."
        buttonText="Download Book"
        buttonLink="https://apsjalandhar.com/atigerformalgudi.pdf"
      />
      <Card
        imgSrc="https://upload.wikimedia.org/wikipedia/en/c/ca/TheVendorOfSweets.jpg"
        imgAlt="The Vendor of Sweets"
        title="The Vendor of Sweets"
        description="The Vendor of Sweets tells about the relationship
        between a father and a son after the death of the mother.
        Jagan is the protagonist of this novel. Mali is the son of Jagan.
        The major theme of this novel is the generational gap."
        buttonText="Download Book"
```

```jsx
      buttonLink="https://www.ssgopalganj.in/online/E-
Books/CLASS%20XI/THE%20VENDOR%20OF%20SWEETS%20BY%20RK%20NARAYAN.pdf"
      />
      <Card
      imgSrc="https://constantscribbles.files.wordpress.com/2018/08/the-bachelor-of-arts.jpg"
      imgAlt="The Bachelor of Arts"
      title="The Bachelor of Arts"
      description="The Bachelor of Arts lends itself to a few significant themes:
      the theme of family relationships, the theme of growing up, the theme of love,
      the theme of renunciation and the theme of friendship.
      The story describes the complex transition of an adolescent mind into
      adulthood and the heartbreak which a youth faces."
      buttonText="Download Book"
      buttonLink="http://www.sxcsrannalibrary.co.in/sites/default/files/Bachelor%20of%20Arts-
%20R%20K%20Narayan.pdf"
      />
      <Card
      imgSrc="https://indiaclub.com/cdn/shop/products/2543_758f54e1-ab5b-42dd-ad1b-
3a0ececc501c.jpg?v=1625570474"
      imgAlt="A town called Malgudi"
      title="A town called Malgudi"
      description="It Contains The Man-Eater Of Malgudi , Arguably The Greatest Novel
      Narayan Has Ever Written, Which Tells The Story Of Nataraj, Owner Of A Small Printing Press,
      And His House Guest Vasu, A Taxidermist,Who Moves Into Nataraj S Attic With A Menagerie Of Dead
Animals."
      buttonText="Download Book"
      buttonLink=""
      />
      </div>
  );
}
export default App;
```

App.css:

```css
.App{
 display: flex;
 flex-wrap:wrap;
 align-items:flex-start;
 justify-content:space-around;
 height: 175vh;
 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.
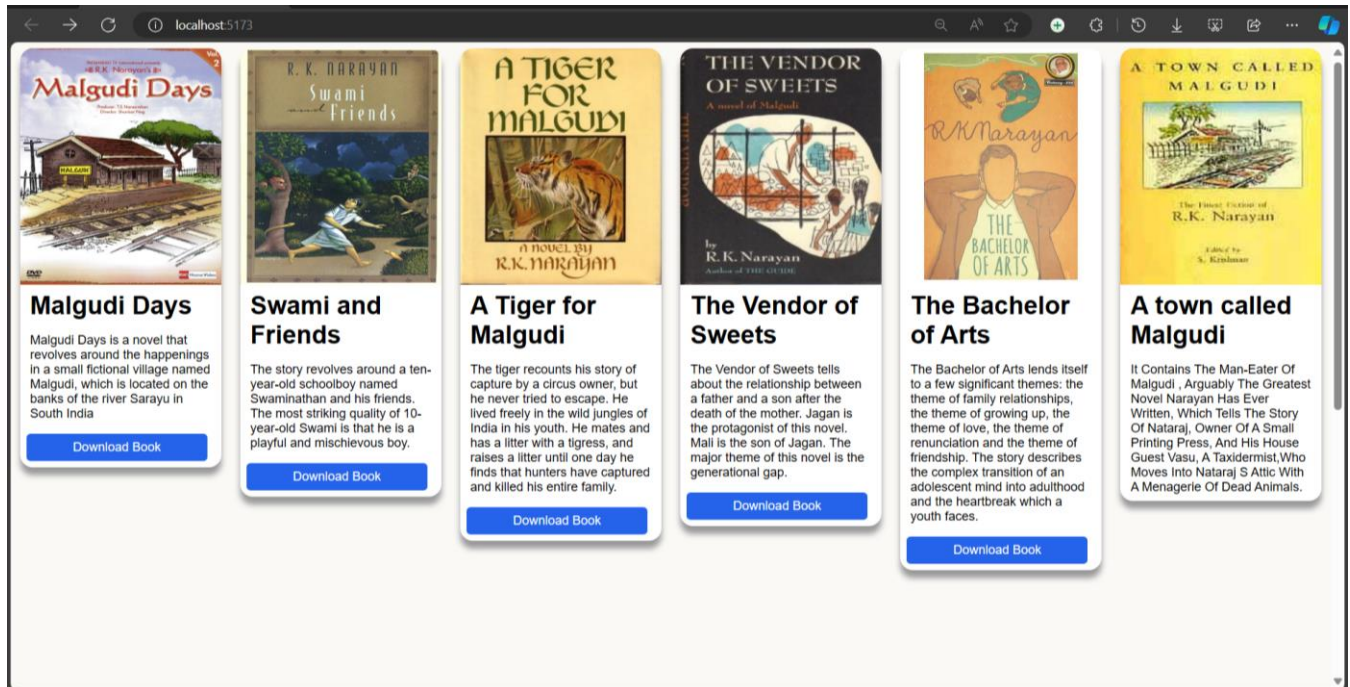
2. When the mouse is hovered over the card component(mouse is hovered over the card named The Vendor of Sweets).
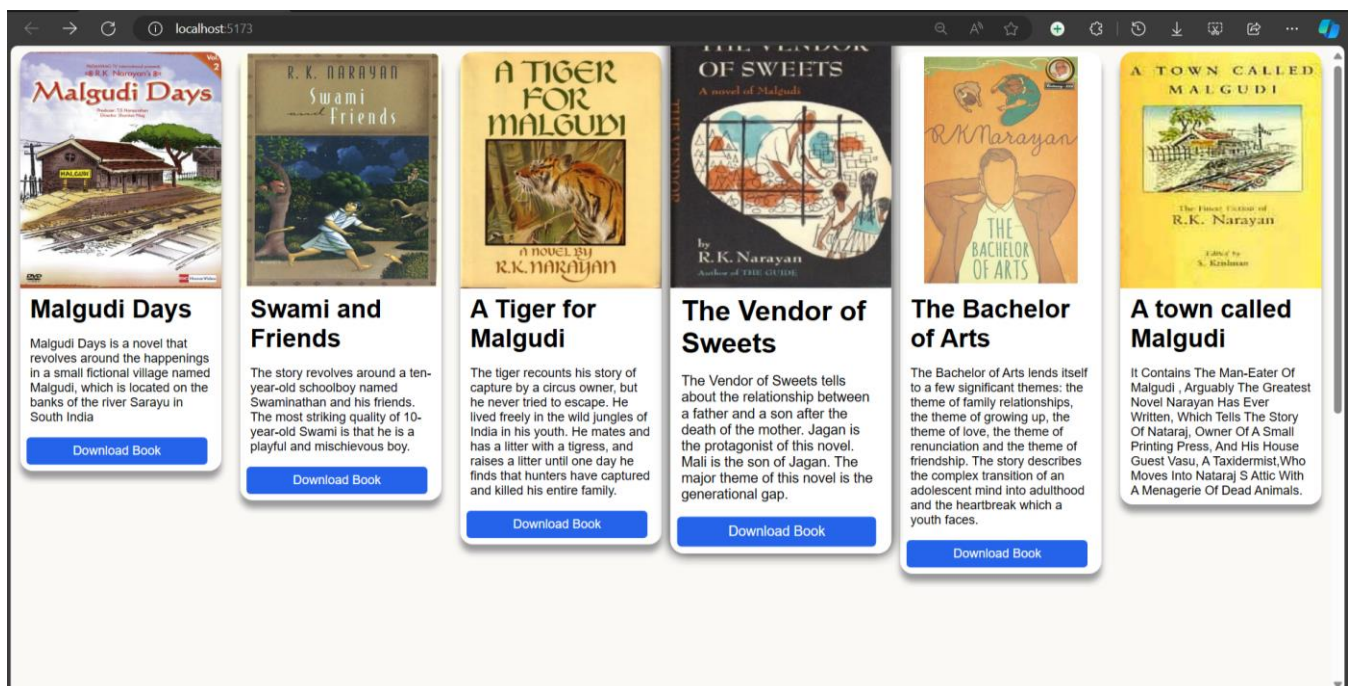
3. When the mouse is hovered over the button(mouse is hovered over the button of card named The Vendor of Sweets).

Malgudi Days

Malgudi Days is a novel that revolves around the happenings in a small fictional village named Malgudi, which is located on the banks of the river Sarayu in South India

Download Book

Swami and Friends

The story revolves around a ten-year-old schoolboy named Swaminathan and his friends. The most striking quality of 10-year-old Swami is that he is a playful and mischievous boy.

Download Book

A Tiger for Malgudi

The tiger recounts his story of capture by a circus owner, but he never tried to escape. He lived freely in the wild jungles of India in his youth. He mates and has a litter with a tigress, and raises a litter until one day he finds that hunters have captured and killed his entire family.

Download Book

The Vendor of Sweets

The Vendor of Sweets tells about the relationship between a father and a son after the death of the mother. Jagan is the protagonist of this novel. Mali is the son of Jagan. The major theme of this novel is the generational gap.

Download Book

The Bachelor of Arts

The Bachelor of Arts lends itself to a few significant themes: the theme of family relationships, the theme of growing up, the theme of love, the theme of renunciation and the theme of friendship. The story describes the complex transition of an adolescent mind into adulthood and the heartbreak which a youth faces.

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A town called Malgudi

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