

# FULL STACK WITH MERN (JAVA) ASSIGNMENT-2

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## ASSIGNMENT-1: REACT.JS COMPONENT CREATION

### 1. CARD

#### 1.1 Code:

```
import React, { useState } from 'react';
import './card.css'; // Assuming CSS file exists

export const Card = ({ card }) => {
  const [isExpanded, setIsExpanded] = useState(false);

  const handleButtonClick = () => {
    setIsExpanded(!isExpanded);
  };

  return (
    <div className={`card ${isExpanded ? 'expanded' : ''}`}>
      <div className="image-container">
        <img src={card.url} alt={card.title || 'Card Image'} />
      </div>
      <div className="content">
        <h3><b>{card.title}</b></h3>
        {isExpanded && <p>{card.description}</p>}
      </div>
      <Button
        onClick={handleButtonClick}
        text={isExpanded ? 'Back' : 'Click to view the Image and Description'}
      />
    </div>
  );
};

const Button = ({ onClick, text }) => (
  <button onClick={onClick}>{text}</button>
);
```

## 1.2 CSS:

```
.card {
  /* Styles for the card in its normal state */
  padding:10px;
  border:10px solid #6fe181;
  border-radius: 10px;
  flex-shrink: 0;
  flex-grow: 0;
  background-color: #fff;
  width:300px;
  height:250px;
  display: flex;
  flex-direction: column;
  align-items: center;
}

.card.expanded {
  /* Styles for the card in its expanded state */
  position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  image-resolution: 1000%,1000%,100;
  image-rendering: auto;
  background-color: white; /* Optional overlay */
  z-index: 10; /* Ensure card is above other elements */
}

.card .image-container {
  /* Styles for the image container */
  width: 50%;
  height: auto;
  flex: 1; /* Allow image to fill available space */
}

.card .content {
  /* Styles for the content section */
  /* Allow content to fill available space */
  text-align: center;
  width:100%;
  padding:10px 0px;
  caret-color:red;
}
```

## 2. BUTTON

### 2.1 Code:

```
import React from 'react'
import './button.css'

export const Button = ({buttonClick,show}) => {
  return (
    <button onClick={buttonClick}>
      {show ? 'show less' : 'show more' }
    </button>
  )
}
```

### 2.2 CSS:

```
button{
  outline:none;
  border:none;
  width:90%;
  padding: 10px 5px;
  background:rgb(121, 91, 185);
  border-radius: 5px;
  font-weight: bold;
  margin-inline: auto;
}

button:hover{
  opacity:.6;
}
```

## 3. APP

### 3.1 Code:

```
import './App.css';
import { Card } from './Card';
function App() {
  const cards = [
    {
      url:" C:/Users/HP/Downloads/image1.jpg",
      title:"Indian Mahogany",
      description:"This tree is very famous for its beautiful colours and
sturdiness. The bark of this tree is typically used for making musical
```

instruments and furniture. The tree is a crucial commodity in the furniture industry and is the favourite for many people who want to have sturdy and durable furniture and even flooring. The tree is not only popular for its durability but also for its other benefits. It provides shade and shelter to many animals and also purifies air at a rapid rate."

},

{

url:" C:/Users/HP/Downloads/gulmohar.jpg ",

title:"Gulmohar",

description:"This tree is a flowering tree with bright orange flowers and a wide canopy. It is mostly ornamental and the wood is used for making handles for tools and combs since it is very durable. It also offers medicinal properties like anti-inflammatory, anti-fungal, anti-bacterial, wound-healing, cardio-protective, and anti-microbial, etc."

},

{

url:" C:/Users/HP/Downloads/neem.jpg ",

title:"Neem",

description:"This tree is famously popular for its medicinal values and healing properties. It is used in various products like shampoos, creams, ointments, etc. it is also used as a natural pesticide. It can kill over 500 different types of pests by changing the way they grow and by interfering with their metabolism. It is also used as a spermicide in many places."

},

{

url:"https://encrypted-

tbm0.gstatic.com/images?q=tbn:ANd9GcRJgMtgfGUCN44gR3JQQNNK9IPTQ0QFf05V4g&usqp=CAU",

title:"Amla",

description:"This is a deciduous tree and grows fruits that are round and green. The fruit is rich in vitamin C and used to cure insomnia. It is used in hair dyes and cosmetics as well. It improves immunity and removes wrinkles. It is also widely used in shampoos. People make jams, jelly, pickles, and sweets with this fruit as well."

},

{

url:" C:/Users/HP/Downloads/peepal.jpg ",

title:"Peepal",

description:"This is an evergreen tree and is also worshipped in many parts of the country. It has heart-shaped leaves that make it so distinctly different. This tree has lots of medicinal values which makes it widely popular in the country. The leaves of the tree are used to deal with asthma, stomach pain, and heart issues. Eating ripe fruits of the tree is helpful in improving a poor appetite. The peepal tree bark is used to reduce itching as well."

},

{

```

url:"https://i.pinimg.com/736x/ff/3d/01/ff3d01b753e7bb070784efdbedb21789.jpg",
  title:"Banyan",
  description:"The national tree of India has a large canopy and aerial
prop roots. It is also considered holy by many Hindus and Buddhists and
symbolizes life and fertility. It was considered as the resting place of Lord
Krishna. It produces a special kind of rubber and the milk of the tree is used
widely in gardening as well. The wood is used in making paper and fastening
ropes. Women in Nepal crush the roots of this tree and use it in shampoo,
conditioner, and skin products."
},
{
  url:"https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcSCiReSG5Amt6UkfA78Y30Tq4jeVkvvgjb3blg&usqp=
CAU",
  title:"Eucalyptus",
  description:"This tall evergreen tree grows up to 300 feet and is known
for its essence which is used in a lot of products. It relieves sore muscles
and improves blood circulation. It is taken during fever and clears
respiratory tracts too. It clears congestion just by inhaling while
simultaneously purifying blood. The bark of the tree is used in making
plywood, doors, and windows. This is generally found in the Nilgiris region of
India."
},
]
return (
  <div className="app">
    {
      cards.map((card,index)=><Card key={index} card={card}/>)
    }
  </div>
);
}

export default App;

```

## 3.2 CSS:

```

*{
  margin:0;
  padding:0;
  box-sizing:border-box;
  transition:.3s;
}

::-webkit-scrollbar{
  display:none;
}

```

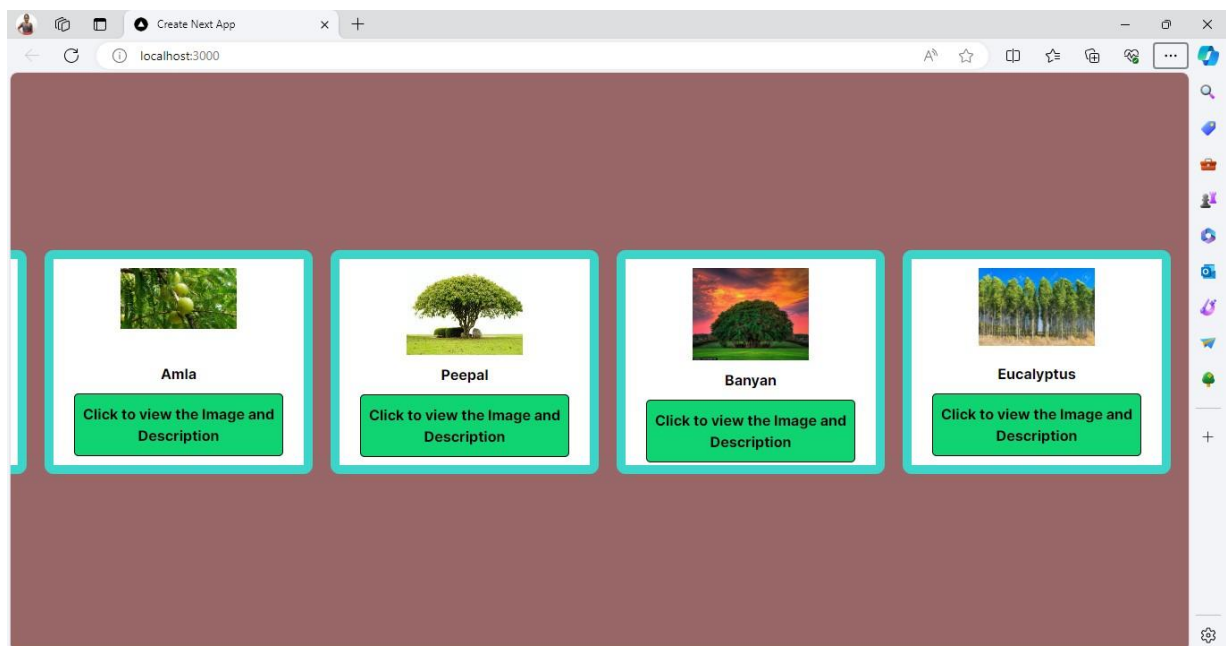
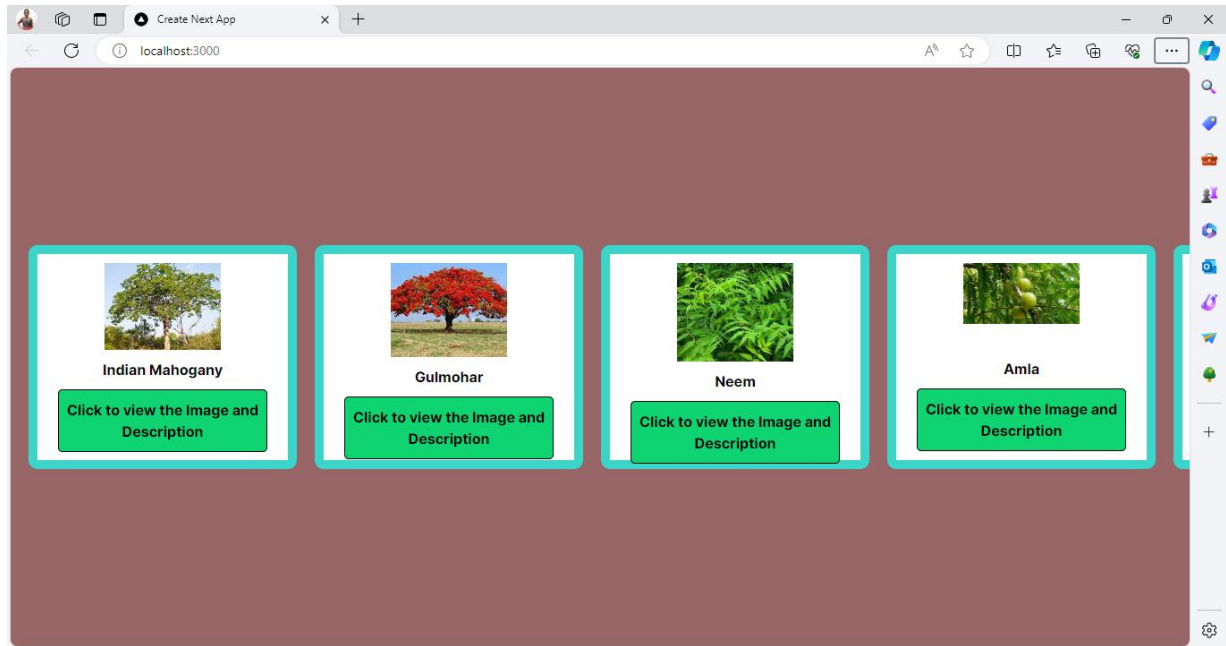
```
}  
  
.app{  
  height:100vh;  
  padding:20px;  
  display: flex;  
  justify-content: space-between;  
  align-items:center;  
  gap:20px;  
  overflow:scroll;  
  background:#e0dbdb;  
}
```

## 4. PROCESS

1. The card component displays information about a card item, including an image, title, and description. It utilizes state hooks to manage the visibility of the description and full-screen mode.
2. The Button component is a simple button used to toggle between "Show More" and "Show Less" text. It accepts props for onClick function and show status.
3. The App component is the main component rendering a list of Card components. It passes card data as props to each Card component.
4. Functionality includes toggling the visibility of the card's description and expanding the card to full-screen mode. These actions are triggered by user interactions with buttons rendered in the Card component.
5. State management is handled within the Card component using state hooks (useState), updating state based on user interactions to reflect changes in UI, such as toggling description visibility and full-screen mode.
6. The Card component uses PropTypes to define the expected shape of the card prop, ensuring type safety and providing clear documentation for component usage.
7. The Button component is styled using a separate CSS file (Button.css), allowing for easy customization of button styles across the application.

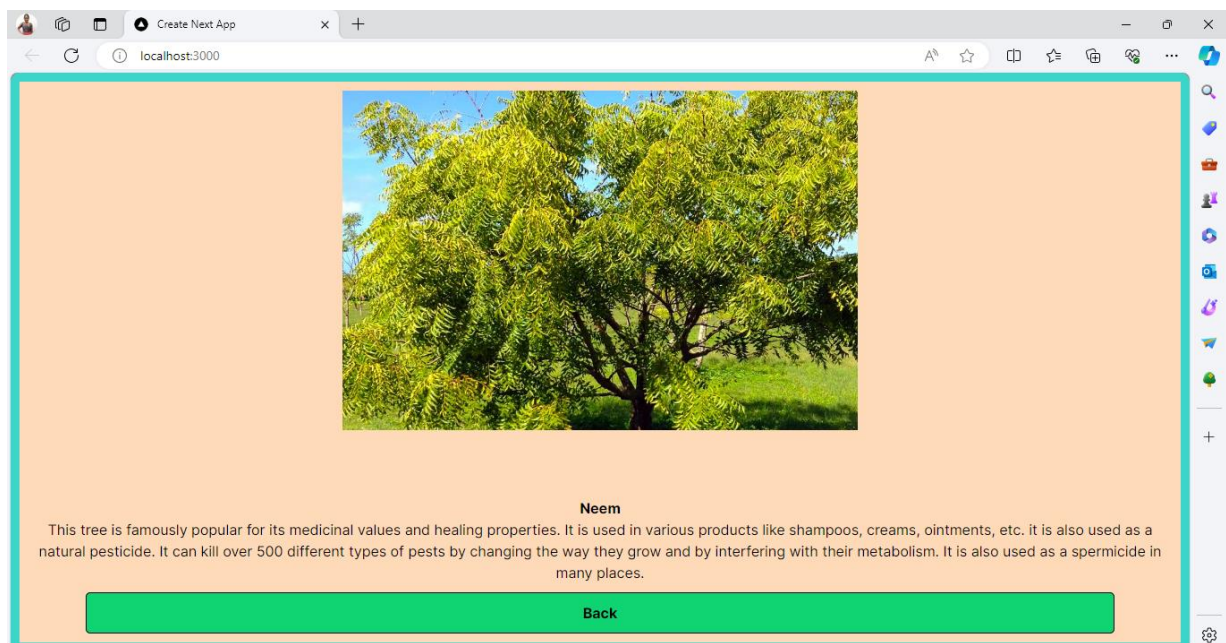
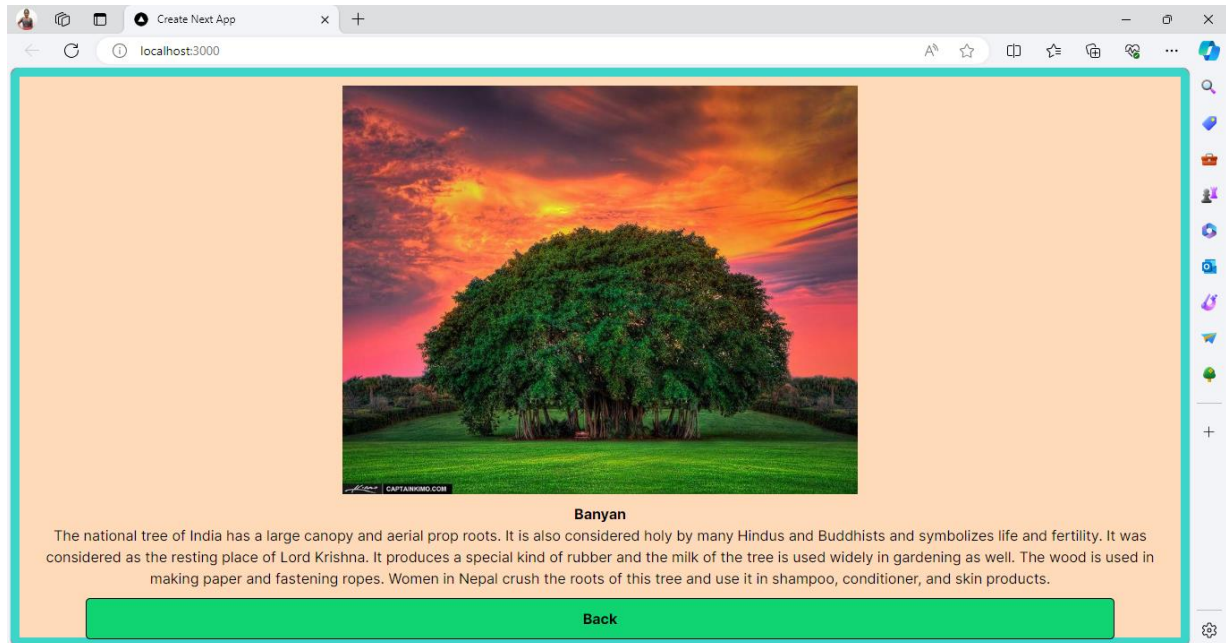
## 5. OUTPUTS

### CARD COMPONENTS



## BUTTON COMPONENT

- After clicking the button "Click to view the image and description" the full screen view of image including title and description will be visible as shown in the given below image.





## AFTER CLICKING BACK BUTTON

- After clicking the “back” button the window will look like below image.

