# Lab Experiment:9

**Aim:** Create simple cards using MaterialUI and React. Use animations to make it more attractive.

#### Components/card.js

```
import React, { useState, useRef } from "react";
import "./Card.css";
export default function Card() {
  const [xRotation, setXRotation] = useState(0);
  const [vRotation, setYRotation] = useState(0);
  const cardRef = useRef(null);
  const imgRef = useRef(null);
  const titleRef = useRef(null);
  const descRef = useRef(null);
  const sizesboxRef = useRef(null);
  const purchaseRef = useRef(null);
  function handleMouseMove(event) {
    const card = cardRef.current;
    const { offsetWidth: width, offsetHeight: height } = card;
    const { clientX, clientY } = event;
    const x = clientX - card.offsetLeft - width / 2;
    const y = clientY - card.offsetTop - height / 2;
    var mult = 40;
    setXRotation((y / height) * mult);
     setYRotation((x / width) * mult);
  function handleMouseEnter() {
    const img = imgRef.current;
    const title = titleRef.current;
    const sizesBox = sizesboxRef.current:
    const purchase = purchaseRef.current;
    const desc = descRef.current
    title.style.transform = "translateZ(150px)";
    img.style.transform = "translateZ(100px) rotateZ(-45deg)";
    sizesBox.style.transform = "translateZ(100px)";
     purchase.style.transform = "translateZ(75px)";
     desc.style.transform = "translateZ(75px)";
  function handleMouseLeave() {
    setXRotation(0);
    setYRotation(0);
    const img = imgRef.current;
    const title = titleRef.current:
    const sizesBox = sizesboxRef.current;
    const purchase = purchaseRef.current;
     title.style.transform = "translateZ(0px)";
    img.style.transform = "translateZ(0px) rotateZ(0deg)";
```

```
sizesBox.style.transform = "translateZ(0px)";
  purchase.style.transform = "translateZ(0px)";
return (
  <div
    className="card"
    ref={cardRef}
    style={{
      transform: `rotateX(${xRotation}deg) rotateY(${yRotation}deg)`,
    onMouseMove={handleMouseMove}
    onMouseEnter={handleMouseEnter}
    onMouseLeave={handleMouseLeave}
    <img
      ref={imgRef}
      src={require("..//Shoe-img/Nike-Shoe.png")}
      alt="Nike-Shoe"
      className="sneaaker-img"
    <h1 className="title" ref={titleRef}>
      Nike Dunk High
    </h1>
    Nike Dunk High is a high-top version of the classic Nike Dunk sneaker,
      featuring a padded collar for added support and comfort.
    className="sizes-box" ref={sizesboxRef}>
      38
      40
      42
      44
    <div className="button-box" ref={purchaseRef}>
      <button className="purchase" >
        Purchase
      </button>
    </div>
  </div>
);
```

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## Components/Card.css

```
.container {
  position: relative;
  width: 100%;
  height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  background: rgb(75, 53, 118);
  background: linear-gradient(219deg,
       rgba(75, 53, 118, 1) 33%,
       rgba(248, 177, 60, 1) 100%);
  font-family: "Roboto", sans-serif;
  gap: 50px;
.card {
  transform-style: preserve-3d;
  position: relative;
  padding: 25px;
  width: 350px;
  height: 500px;
  border-radius: 20px;
  box-shadow: rgba(0, 0, 0, 0.35) 0px 5px 15px;
  display: flex;
  align-items: center;
  flex-direction: column;
  justify-content: space-around;
  background: linear-gradient(25deg,
       rgb(169, 53, 130) 0%,
       rgb(138, 227, 236) 86%);
  transition: all 0.1s ease;
.sneaaker-img {
  position: relative;
  width: 90%;
  transition: all 0.5s ease;
.title,
.card p {
  width: 100%;
  color: rgb(220, 220, 220);
.sizes-box {
width: 100%;
```

```
display: flex;
  align-items: center;
  justify-content: space-evenly;
  gap: 10px;
.sizes-box li {
  list-style: none;
  cursor: pointer;
  font-weight: bold;
  border-radius: 30px;
  padding: 0.5rem 1.5rem;
  background-color: rgb(220, 220, 220);
  box-shadow: rgba(0, 0, 0, 0.25) 0px 54px 55px,
     rgba(0, 0, 0, 0.12) 0px -12px 30px, rgba(0, 0, 0, 0.12) 0px 4px 6px,
     rgba(0, 0, 0, 0.17) 0px 12px 13px, rgba(0, 0, 0, 0.09) 0px -3px 5px;
.sizes-box li:hover {
  background-color: rgb(134, 134, 134);
.button-box {
  width: 100%;
.purchase {
  cursor: pointer;
  width: 100%;
  border-radius: 30px;
  padding: 0.8rem 1.5rem;
  font-weight: bold;
  border: none;
  font-size: 1rem;
  letter-spacing: 1px;
  background-color: rgba(248, 177, 60, 1);
  box-shadow: rgba(0, 0, 0, 0.25) 0px 54px 55px,
     rgba(0, 0, 0, 0.12) 0px -12px 30px, rgba(0, 0, 0, 0.12) 0px 4px 6px,
    rgba(0, 0, 0, 0.17) 0px 12px 13px, rgba(0, 0, 0, 0.09) 0px -3px 5px;
.purchase:hover {
  background-color: rgb(222, 157, 54);
```

#### Src/app.js

```
import Card from "./components/Card";
function App() {
   return (
```

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## index.js

## index.css

```
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
}
```

## **Output:**



