

Assignment Three

Please read:

- This is your third assignment which you need to submit on the LMS.
- Late Submission: The deadline to submit this assignment is 19th February 2024, 6:00PM IST.

Important Instructions:

1. This is an assignment on React JS. You can make use of methods such as `map()`, `filter()`, `reduce()`, `find()`, `length`, `push`, `toLowerCase()`, `toUpperCase()`, `includes()` if needed.
2. Make use of `useState` and `useEffect` Hook.
3. You can fork this [CodeSandbox](#) and write your solution in this format - [CodeSandbox](#).
4. Do not copy from someone else as that would be cheating. We have already provided you enough practice questions before, so that you get comfortable doing this assignment.
5. Once completed, you should post your assignment solution in your team or pod and get it reviewed by your friends before submitting it on the LMS for final review.

Please note that this assignment should take 5-6 hours of your time at max if you have practiced the previously given practice set questions.

Questions:

1. Create a Tabs component in React with four city name tabs. On click of each tab show some content about that city.

Output:

Tabs

London	Paris	Tokyo	New York
--------	-------	-------	----------

Tabs

London	Paris	Tokyo	New York
<div><div>Paris</div><div>Paris is the capital of France.</div></div>			

2. Create a list of Grocery list items with checkboxes and as the user checks out the item those checked-out items should be listed in another section named 'Completed list'. Add the list of items via an input field.

Output:

An input field to add items to the grocery list:

Grocery List

Add item:

Add

Completed List

Adding apples to the grocery list:

Grocery List

Add item:

- ☐ Potato
- ☐ Onion
- ☐ Spinach

Completed List

Apple added to the grocery list:

Grocery List

Add item:

- ☐ Potato
- ☐ Onion
- ☐ Spinach
- ☐ Apples

Completed List

On check of some items, they get added to the Completed List.

Grocery List

Add item:

Add

- ☐ Potato
- ☐ Apples
- ☐ Ladies Finger
- ☐ Kale

Completed List

- Onion
- Spinach

3. Create a slider input in React which will set the border radius of a card on a change in the value of the range.

Card with Rounded Corners

Border Radius: 

Card with Rounded Corners

Border Radius: 

4. Create a select dropdown that updates the background color of the page when a new color is selected.

Output:

Set Background Color

White ▾

Set Background Color

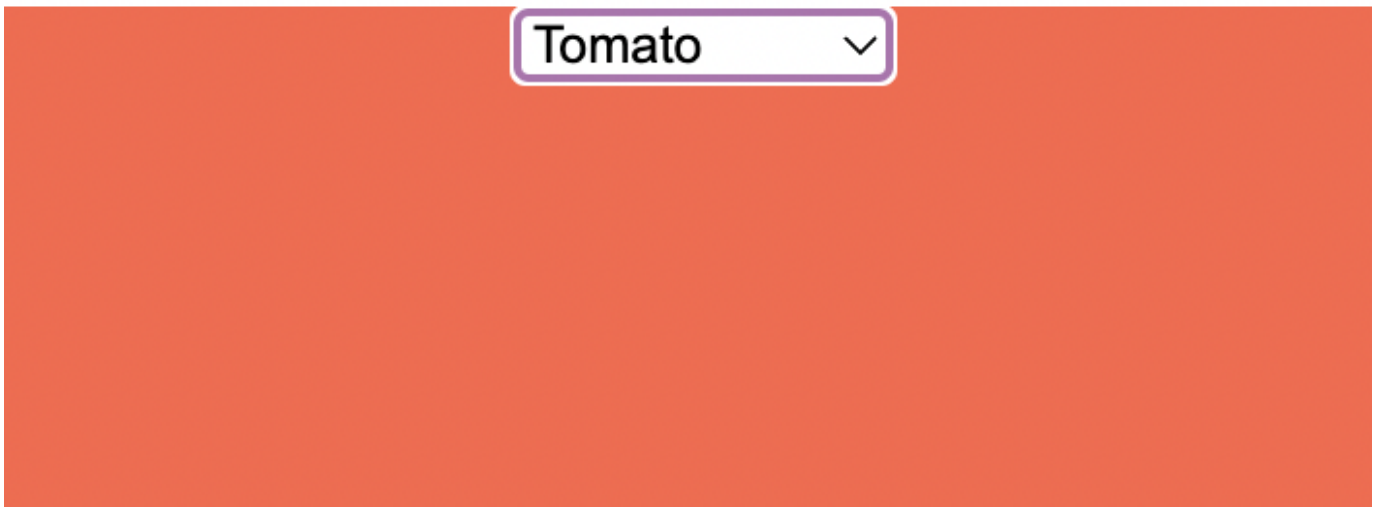
White

✓ Pink

Tomato

Aqua Marine

Set Background Color



5. Create a React component that fetches chats from an API endpoint using `useEffect` hook and display chat data (chat message) as a list on the screen using the `useState` hook. Display "You: " before every odd message and "user: " at every even message.

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/userchats') {
        resolve({
          status: 200,
          message: 'Success',
          data: [
            'Hey',
            'Hi, how are you?',
            'I am good, How are you doing?',
            'I am good too. Can we meet on Monday?',
          ],
        })
      } else {
        reject({
          status: 404,
          message: 'users chat not found.',
        })
      }
    }, 2000)
  })
}
```

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Output:

Chat Room

user: Hey

You: Hi, how are you?

user: I am good, How are you doing?

You: I am good too. Can we meet on Monday?

6. Create a React component that fetches tweets data from an API endpoint using `useEffect` hook and display tweets (content, likes, views) as a list on the screen using the `useState` hook. Add a button on top, on click of which it displays only the tweets with more than 50 likes.

Output:



The screenshot shows a web application with a button at the top that reads "Show Tweets with More than 50 Likes". Below the button is a list of four tweets, each displayed in a white box with a blue border. The tweets are: "this is a cool tweet" (50 likes, 100 views), "React is cool" (47 likes, 655 views), "Router is cool" (55 likes, 90 views), and "CSS is Awesome" (35 likes, 55 views). A vertical scrollbar is visible on the right side of the list.

Tweet Content	Likes	Views
this is a cool tweet	50	100
React is cool	47	655
Router is cool	55	90
CSS is Awesome	35	55

Show All Tweets

Router is cool

Likes: 55 Views: 90

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/usertweets') {
        resolve({
          status: 200,
          message: 'Success',
          data: [
            {
              id: 'tw001',
              content: 'this is a cool tweet',
              likes: 50,
              views: 100,
            },
            {
              id: 'tw002',
              content: 'React is cool',
              likes: 47,
              views: 655,
            },
            {
              id: 'tw003',
              content: 'Router is cool',
              likes: 55,
              views: 90,
            },
            {
              id: 'tw004',
              content: 'CSS is Awesome',
              likes: 35,
              views: 55,
            }
          ]
        })
      }
    }, 1000)
  })
}
```

```

    },
    {
      id: 'tw005',
      content: 'JavaScript is versatile',
      likes: 48,
      views: 90,
    },
  ],
})
} else {
  reject({
    status: 404,
    message: 'tweets not found.',
  })
}
}, 2000)
})
}

```

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7. Given a list of movies as an array of objects with properties id, title, rating, year and category. Create a React component to list down all movies with rating and year. Create radio buttons to filter by category. Create a dropdown to filter by rating. Fake fetch has been provided.

Output:

Category Filter: ☒ All ☐ Action ☐ Crime ☐ Drama
Rating Filter: 

Movies List

The Shawshank Redemption

Rating: 9.3 - Year: 1994

The Godfather

Rating: 9.2 - Year: 1972

The Dark Knight

Rating: 9 - Year: 2008

Pulp Fiction

Rating: 8.9 - Year: 1994

The Lion King

Rating: 8.5 - Year: 1994

Inception

Rating: 8.8 - Year: 2008

Category Filter: ☒ All ☐ Action ☐ Crime ☐ Drama

Rating Filter

✓ All

8.0+

8.5+

9.0+

9.5+

Movies

The Shawshank Redemption

Rating: 9.3 - Year: 1994

The Godfather

Rating: 9.2 - Year: 1972

```
const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/movies') {
        resolve({
          status: 200,
          message: 'Success',
          data: [
            {
              id: 1,
              title: 'The Shawshank Redemption',
              rating: 9.3,
              year: 1994,
              category: 'Drama',
            },
            {
              id: 2,
              title: 'The Godfather',
              rating: 9.2,
              year: 1972,
              category: 'Crime',
            },
            {
              id: 3,
              title: 'The Dark Knight',
              rating: 9.0,
              year: 2008,
              category: 'Action',
            },
            {
              id: 4,
              title: 'Pulp Fiction',
              rating: 8.9,
              year: 1994,
              category: 'Crime',
            },
          ],
        })
      }
    }, 1000)
  })
}
```

```
{
  id: 5,
  title: 'The Lion King',
  rating: 8.5,
  year: 1994,
  category: 'Drama',
},
{
  id: 6,
  title: 'Inception',
  rating: 8.8,
  year: 2010,
  category: 'Action',
},
],
})
} else {
  reject({
    status: 404,
    message: 'Movies not found.',
  })
}
}, 2000)
})
}
```