ReactJS Practice Question Set 6

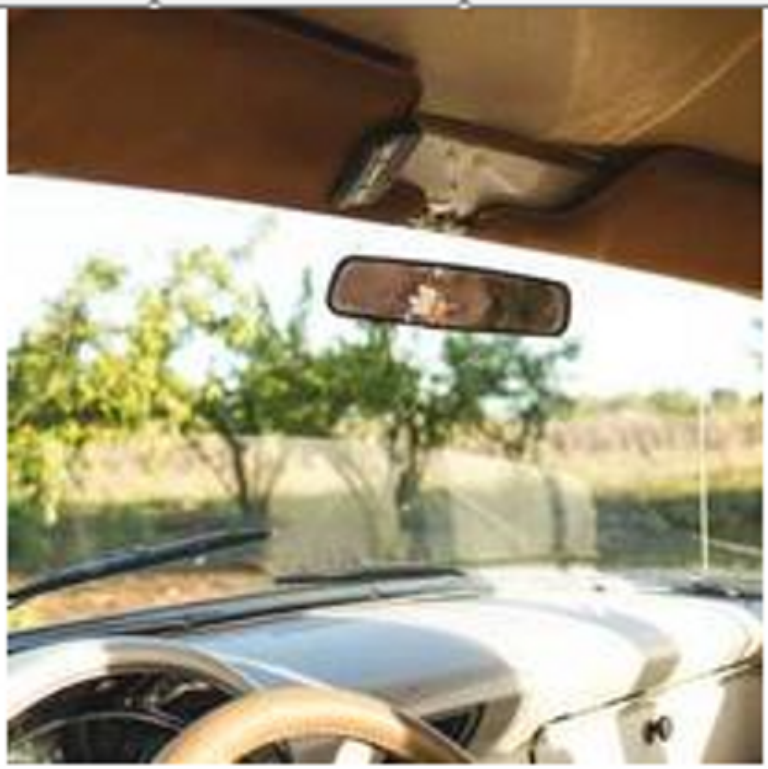
Instructions:

1. Do these questions in a React JS template editor. You can use React JS CodeSandbox or React JS REPL.
2. This set is about practicing useEffect and useState hook in React.
3. You can make use of methods such as .map(), .filter(), .reduce(), .length, .toLowerCase(), .toUpperCase() wherever needed.
4. Do NOT use for-loops.

Questions:

1. Create a React component that calls the product api and has the same number of buttons as the items in product. On Click of each button show the details of that card only. Example: In the below API we have three products and three buttons.

Show Shoes | Show Tshirt | Show Trekking Bag



Name: Trekking Bag

Price: Rs. 2000

Description: lorem ipsum dolor sit amit

```
const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/products') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            products: [
              {
                name: 'Shoes',
                price: 3000,
                desc: 'lorem ipsum dolor sit amit',
                src: 'https://picsum.photos/200/200',
              },
              {
                name: 'Tshirt',
                price: 500,
```

```
                inStock: false,
                desc: 'lorem ipsum dolor sit amit',
                src: 'https://picsum.photos/201/201',
              },
              {
                name: 'Trekking Bag',
                price: 2000,
                inStock: true,
                desc: 'lorem ipsum dolor sit amit',
                src: 'https://picsum.photos/205/205',
              },
            ],
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Items list not found.',
        })
      }
    }, 2000)
  })
}
```

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2. Create a React component that calls the todo api and display the todos in an unordered list and show the todos as a list. The todo should display a heading with a little description of what that todo is about. Under that, it should display all the tasks to be done as a list.

Go Outside: Get some fresh air

1. shopping
2. cricket
3. walking

Let's Work: Deadline closes in 3 days

1. Feature update
2. Team Meet
3. Code Walkthrough

Home Work: To be done on priority

1. Fix tap
2. Wedding function

```
const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/todos') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            todos: [
              {
                title: 'Go Outside',
                desc: 'lorem ipsum dolor sit amit',
                todos: ['shopping', 'cricket', 'walking'],
              },
              {
                title: "Let's Work",
                desc: 'lorem ipsum dolor sit amit',
                todos: ['Feature update', 'Team Meet', 'Code Walkthrough'],
              },
              {
                title: 'Home Work',
                desc: 'lorem ipsum dolor sit amit',
                todos: ['Fix tap', 'Wedding function'],
              },
            ],
```

```
        },
      })
    } else {
      reject({
        status: 404,
        message: 'Todo list not found.',
      })
    }
  }, 2000)
 })
}
```

COPY

3. Create a React component that calls the habit tracker api when the page is loaded completely and display the habits with the total days they were followed and days skipped in between.

Habit Tracker

- **Drinking enough water:**
  Aim to drink a 5-6L of water each day to stay hydrated.

  Days Followed: 7
  Days Skipped: 3

- **Exercise:**
  Track your workouts and aim to exercise.

  Days Followed: 10
  Days Skipped: 4

- **Meditation:**
  Track daily meditation practice and try to increase the length of your sessions over time.

  Days Followed: 30
  Days Skipped: 7

- **Gratitude:**
  Write down something you are grateful for each day.

  Days Followed: 11
  Days Skipped: 5

- **Saving Money:**
  Track your expenses and set a goal to save a certain amount of money each month.

  Days Followed: 40
  Days Skipped: 15

```
const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/habits') {
        resolve({
          status: 200,
```

```
          message: 'Success',
          data: {
            habits: [
              {
                title: 'Drinking enough water',
                desc: 'Aim to drink 5-6L of water each day to stay hydrated',
                daysFollowed: 7,
                daysSkipped: 3,
              },
              {
                title: 'Exercise',
                desc: 'Track your workouts and aim to exercise a certain number of days per
                daysFollowed: 10,
                daysSkipped: 4,
              },
              {
                title: 'Meditation',
                desc: 'Track your daily meditation practice and try to increase the length o
                daysFollowed: 30,
                daysSkipped: 7,
              },
              {
                title: 'Gratitude',
                desc: 'Write down something you are grateful for each day',
                daysFollowed: 11,
                daysSkipped: 5,
              },
              {
                title: 'Saving Money',
                desc: 'Track your expenses and set a goal to save a certain amount of money
                daysFollowed: 40,
                daysSkipped: 15,
              },
            ],
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Habits not found.',
        })
      }
    }, 2000)
  })
}
```

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4. Create a React component that calls the video library api when the page is loaded completely and display all the videos on the screen. And on click of `delete` button, delete the first video in the list.

Playlist

The Power of Habit

Likes: 50000
Views: 1000000

How to Code in JavaScript

Likes: 25000
Views: 500000

10 Minute Yoga for Beginners

Likes: 15000
Views: 250000

Introduction to Machine Learning

Likes: 10000
Views: 100000

The Science of Cooking

Likes: 5000
Views: 75000

The Art of Public Speaking

Likes: 2500
Views: 50000
Delete Video

Playlist

How to Code in JavaScript

Likes: 25000
Views: 500000
Delete Video

10 Minute Yoga for Beginners

Likes: 15000
Views: 250000

Introduction to Machine Learning

Likes: 10000
Views: 100000

The Science of Cooking

Likes: 5000
Views: 75000

The Art of Public Speaking

Likes: 2500
Views: 50000

```
const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/videos') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            videos: [
              {
                title: 'The Power of Habit',
                thumbnail: 'https://picsum.photos/200/130',
                views: 1000000,
                likes: 50000,
              },
              {
                title: 'How to Code in JavaScript',
                thumbnail: 'https://picsum.photos/200/135',
                views: 500000,
                likes: 25000,
              },
              {
                title: '10 Minute Yoga for Beginners',
                thumbnail: 'https://picsum.photos/200/131',
                views: 250000,
                likes: 15000,
              },
              {
                title: 'Introduction to Machine Learning',
                thumbnail: 'https://picsum.photos/200/132',
                views: 100000,
                likes: 10000,
              },
```

```
            {
              title: 'The Science of Cooking',
              thumbnail: 'https://picsum.photos/200/133',
              views: 75000,
              likes: 5000,
            },
            {
              title: 'The Art of Public Speaking',
              thumbnail: 'https://picsum.photos/200/134',
              views: 50000,
              likes: 2500,
            },
          ],
        },
      })
    } else {
      reject({
        status: 404,
        message: 'Videos not found.',
      })
    }
  }, 2000)
 })
}
```

COPY

5. Create a react component that calls the social media api when the page is loaded completely and display all the posts on the screen. And on click of `show bakery` button, show only the posts with category as bakery.

Delicious chocolate cake recipe

Likes: 100
Views: 1000

5-minute breakfast ideas

Likes: 50
Views: 500

The best bread recipe you'll ever taste

Likes: 200
Views: 2000

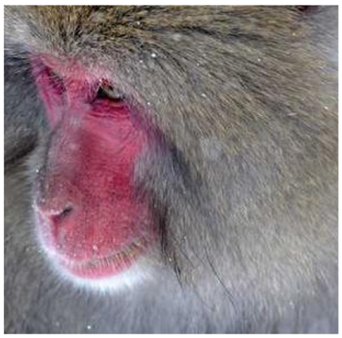
10 DIY home decor ideas

Likes: 10
Views: 100

Healthy snacks for work

Likes: 30
Views: 300

Show Bakery



How to make sourdough bread at home

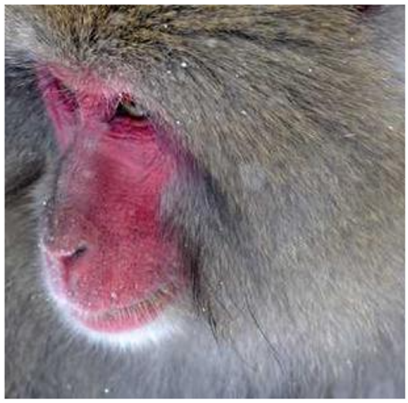
Likes: 150
Views: 1500

Delicious chocolate cake recipe

Likes: 100
Views: 1000
Show Bakery

The best bread recipe you'll ever taste

Likes: 200
Views: 2000



How to make sourdough bread at home

Likes: 150
Views: 1500

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/posts') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            posts: [
              {
                caption: 'Delicious chocolate cake recipe',
                src: 'https://picsum.photos/300/301',
                views: 1000,
                likes: 100,
                category: 'Bakery',
              },
              {
                caption: '5-minute breakfast ideas',
                src: 'https://picsum.photos/300/300',
                views: 500,
                likes: 50,
                category: 'Food',
              },
              {
                caption: "The best bread recipe you'll ever taste",
                src: 'https://picsum.photos/300/302',
                views: 2000,
                likes: 200,
                category: 'Bakery',
              },
              {
                caption: '10 DIY home decor ideas',
                src: 'https://picsum.photos/300/303',
                views: 100,
                likes: 10,
                category: 'DIY',
              },
              {
                caption: 'Healthy snacks for work',
                src: 'https://picsum.photos/300/304',
                views: 300,
                likes: 30,
                category: 'Food',
```

```
            },
            {
              caption: 'How to make sourdough bread at home',
              src: 'https://picsum.photos/300/305',
              views: 1500,
              likes: 150,
              category: 'Bakery',
            },
          ],
        },
      })
    } else {
      reject({
        status: 404,
        message: 'Post not found.',
      })
    }
  }, 2000)
 })
}
```

COPY

6. Create a React component that calls the habit tracker api and display only the habits which are unarchived with heading “Unarchived”. Create a `show archive` button and on click of `show archive` button show the archive habits and hide the unarchives. Change the heading of the page to “Archived” when the button is clicked.

Unarchived

Drinking enough water
Aim to drink 5-6L of water each day to stay hydrated

Days Followed: 7

Days Skipped: 3

Gratitude
Write down something you are grateful for each day

Days Followed: 11

Days Skipped: 5

Saving Money
Track your expenses and set a goal to save a certain amount of money each month

Days Followed: 40

Days Skipped: 15

Show Archives

Archived

Exercise
Track your workouts and aim to exercise a certain number of days per week

Days Followed: 10

Days Skipped: 4

Meditation
Track your daily meditation practice and try to increase the length of your sessions over time

Days Followed: 30

Days Skipped: 7

Show Archives

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/habits') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            habits: [
              {
                title: 'Drinking enough water',
                desc: 'Aim to drink 5-6L of water each day to stay hydrated',
                daysFollowed: 7,
                daysSkipped: 3,
                archived: false,
              },
              {
                title: 'Exercise',
                desc: 'Track your workouts and aim to exercise a certain number of days per
                daysFollowed: 10,
                daysSkipped: 4,
                archived: true,
              },
              {
                title: 'Meditation',
                desc: 'Track your daily meditation practice and try to increase the length o
                daysFollowed: 30,
                daysSkipped: 7,
                archived: true,
              },
              {
                title: 'Gratitude',
                desc: 'Write down something you are grateful for each day',
                daysFollowed: 11,
                daysSkipped: 5,
                archived: false,
              },
              {
                title: 'Saving Money',
```

```
                desc: 'Track your expenses and set a goal to save a certain amount of money
                daysFollowed: 40,
                daysSkipped: 15,
                archived: false,
              },
            ],
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Habits not found.',
        })
      }
    }, 2000)
  })
}
```

COPY

7. Create a React component that calls the projects api and list all the projects when the page loads with titles and description. Create buttons saying “Show Details” for each project. On click of the button show `title, description, technologies, completed` of that project only.

Projects

Name: E-commerce Website
Description: A fully functional e-commerce website with shopping cart and checkout functionality.
Show Details

Name: Weather App
Description: A web application that displays the current weather and forecast for a given location.
Show Details

Name: Task Manager
Description: A web application that allows users to create, manage and track tasks.
Show Details

Name: Blog Website
Description: A blog website that allows users to create, read, update and delete blog posts.
Show Details

Name: Mobile Game
Description: A mobile game developed for iOS and Android platforms.
Show Details

Project Details

Title: Weather App
Description: A web application that displays the current weather and forecast for a given location.
Technologies: ReactNode.jsOpenWeatherMap API
Completed: true

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/projects') {
```

```
        resolve({
          status: 200,
          message: 'Success',
          data: {
            projects: [
              {
                title: 'E-commerce Website',
                description:
                  'A fully functional e-commerce website with shopping cart and checkout fur
                technologies: ['React', 'Node.js', 'Express', 'MongoDB'],
                completed: false,
              },
              {
                title: 'Weather App',
                description:
                  'A web application that displays the current weather and forecast for a gi
                technologies: ['React', 'Node.js', 'OpenWeatherMap API'],
                completed: true,
              },
              {
                title: 'Task Manager',
                description:
                  'A web application that allows users to create, manage and track tasks.',
                technologies: ['Vue.js', 'Firebase'],
                completed: false,
              },
              {
                title: 'Blog Website',
                description:
                  'A blog website that allows users to create, read, update and delete blog
                technologies: ['React JS', 'MongoDB'],
                completed: true,
              },
              {
                title: 'Mobile Game',
                description:
                  'A mobile game developed for iOS and Android platforms.',
                technologies: ['Unity', 'C#'],
                completed: false,
              },
            ],
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Projects not found.',
        })
      }
    }, 2000)
  })
}
```

COPY

8. Create a React component that calls the userProfile api and list the details of the user when the page loads. Create a button saying `Update name` and on click of that button, change the name of the user.

Profiles

Name: John
Email: john@example.com
Age: 30
Gender: male
Occupation: Software Engineer

Update name

Profiles

Name: Emily
Email: john@example.com
Age: 30
Gender: male
Occupation: Software Engineer

Update name

```
export const fakeFetch = (url) => {
```

```
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/profile') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            profiles: {
              name: 'John',
              age: 30,
              gender: 'male',
              email: 'john@example.com',
              occupation: 'Software Engineer',
            },
          },
        })
      } else {
        reject({
          status: 404,
          message: 'User Profile not found.',
        })
      }
    }, 2000)
  })
}
```

COPY

9. Create a React component that calls the video api and display all the details of the video on the screen. And on click of `add label` button, add a label property to the object and display the details on the screen

The Power of Habit
Views: 1000000 views
Likes: 50000 likes
Add Label

The Power of Habit
Views: 1000000 views
Likes: 50000 likes
Label: Self Motivational

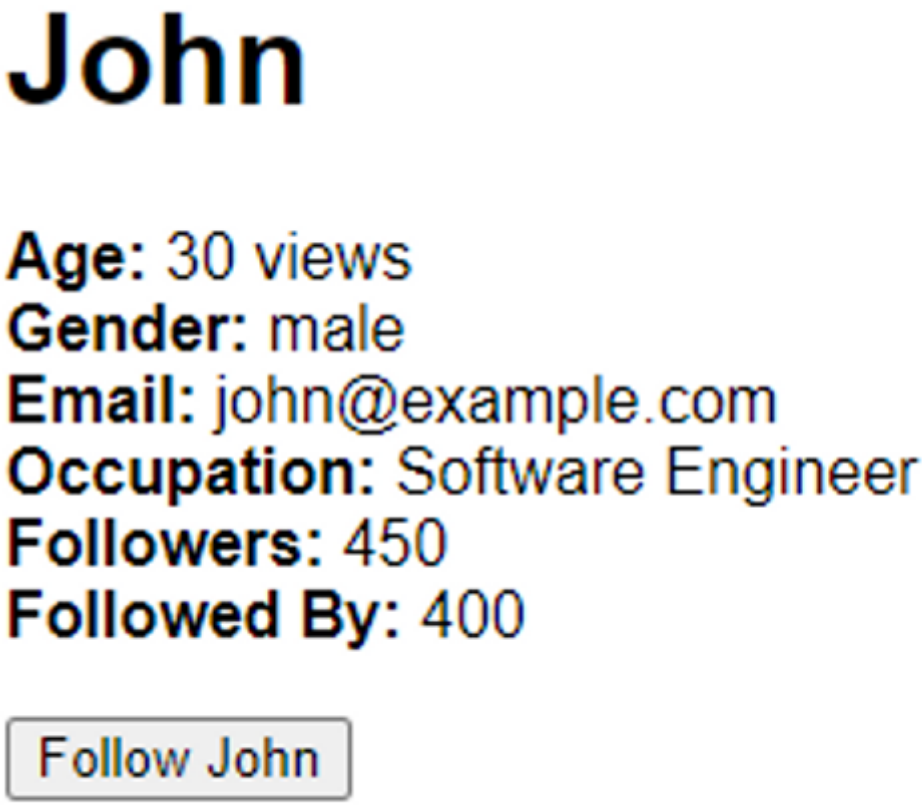
Add Label

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/getvideo') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            videos: {
              title: 'The Power of Habit',
              thumbnail: 'https://picsum.photos/250/130',
              views: 1000000,
              likes: 50000,
            },
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Video not found.',
        })
      }
    }, 2000)
```

```
  })
}
```

COPY

10. Create a React component that calls the socialMedia profile api and when the page is loaded show details of the user and a button `follow` along with the name of the user on the button. On click of that increase the followers count by one and disable the button.



John

Age: 30 views
Gender: male
Email: john@example.com
Occupation: Software Engineer
Followers: 451
Followed By: 400

Follow John

```
export const fakeFetch = (url) => {
  return new Promise((resolve, reject) => {
    setTimeout(() => {
      if (url === 'https://example.com/api/profile') {
        resolve({
          status: 200,
          message: 'Success',
          data: {
            profile: {
              name: 'John',
              age: 30,
              gender: 'male',
              email: 'john@example.com',
              occupation: 'Software Engineer',
              followers: 450,
              followedBy: 400,
            },
          },
        })
      } else {
        reject({
          status: 404,
          message: 'Profile not found.',
        })
      }
    }, 2000)
  })
}
```