

# PSQUARE - MERN STACK ROUND

The MERN Stack qualifying round consists of 20 questions.

The respondent's email (**kaushalsharma97299@gmail.com**) was recorded on submission of this form.

Which Mongoose method is used to remove documents from a collection?

- ☒ delete()
- ☐ remove()
- ☐ destroy()
- ☐ erase()

What is the purpose of useCallback ?

- ☐ To memoize the value returned from a function.
- ☐ To memoize a function and prevent re-rendering.
- ☐ To define a hook that extends functionality.
- ☐ To handle and manage internal component state.



What is the purpose of Mongoose virtuals?

- ☐ To store fields directly in the database.
- ☒ To define computed fields on documents.
- ☐ To create indexes for better performance.
- ☐ To validate fields before saving data.

What is the output of the following JavaScript code?

```
let arr = [1, 2, 3, 4, 5];  
arr.splice(2, 2, 6, 7);  
console.log(arr);
```

- ☐ [1, 2, 6, 7, 5]
- ☐ [1, 2, 3, 4, 5]
- ☐ [1, 2, 4, 5]
- ☒ [1, 2, 6, 7]

What is the purpose of React's Concurrent Mode?

- ☐ To make React applications run faster in all browsers.
- ☐ To enable React to integrate and function smoothly alongside other JavaScript frameworks in a project.
- ☒ To enable non-blocking rendering and improve the perceived application's responsiveness.
- ☐ To simplify state management in complex applications.



What is a key benefit of using Suspense in React?

- ☐ To manage controlled inputs with validation logic.
- ☒ To fetch and render data with retry mechanisms.
- ☐ To defer rendering until a resource becomes available.
- ☐ To isolate component state for concurrent updates.

What is the purpose of the createPortal API?

- ☐ To initialize and mount a new React project.
- ☒ To render UI elements outside the root DOM node.
- ☐ To implement portals for server-side rendering.
- ☐ To enhance how components handle rendering logic.



What is the output of the following JavaScript code?

```
function* generatorFn() {  
  yield 1;  
  yield 2;  
  yield 3;  
}  
const generator = generatorFn();  
console.log(generator.next().value);  
console.log(generator.next().value);  
console.log(generator.next().value);
```

- ☒ 1, 2, 3
- ☐ undefined, undefined, undefined
- ☐ 1, 1, 1
- ☐ null, null, null

What is the purpose of the useRef hook?

- ☐ To manage and track the internal component state.
- ☒ To persist a mutable value or reference to a DOM node.
- ☐ To run logic after rendering using side effects.
- ☐ To enhance rendering of large and complex views.



In MongoDB, what is the purpose of a covered query?

- ☐ To perform queries using only indexed fields across collections.
- ☒ To retrieve data only from the index, without accessing the document itself.
- ☐ To improve performance by avoiding document validation during writes.
- ☐ To protect query data during transmission using encryption.

What does React's StrictMode do during development?

- ☐ It optimizes code by reducing the number of bundle exports.
- ☒ It detects unsafe lifecycles and highlights potential bugs
- ☐ It enables server rendering and helps track hydration issues.
- ☐ It restricts third-party library usage that breaks the app.

What is the difference between setState in class components and the useState hook in functional components in how they update state?

- ☐ setState always synchronously updates the state, while useState always updates it asynchronously.
- ☒ setState merges updates with the previous state, while useState replaces the entire state.
- ☐ setState replaces the entire state, while useState merges updates with the previous state.
- ☐ There is no difference; they behave identically.



What does the \$facet stage in a Mongoose aggregation pipeline do?

- ☐ Groups documents using a specific key.
- ☐ Performs full-text search on documents.
- ☐ Processes multiple pipelines in one stage.
- ☐ Unwinds array fields into separate docs.

What will the following code output?

```
console.log(typeof null);
```

- ☐ "null"
- ☒ "object"
- ☐ "undefined"
- ☐ "number"

Which of the following is the correct way to ensure strong consistency in a distributed MongoDB environment?

- ☐ Using a write concern of { w: 1 } and a read preference of primaryPreferred.
- ☒ Using a write concern of { w: "majority" } and a read preference of primary.
- ☐ Using a write concern of { w: 0 } and a read preference of nearest.
- ☐ Relying solely on default settings without configuring write concern or read preference.



What is the value of result?

```
let result = null == undefined  
console.log(result)
```

- ☒ true
- ☐ false
- ☐ 0
- ☐ 1

What is the output of the following?

```
console.log(0.1 + 0.2 === 0.3);
```

- ☐ true
- ☒ false
- ☐ Error
- ☐ undefined

What is event bubbling in JavaScript?

- ☐ An event that happens only once during execution.
- ☐ The sequence in which browser handles the events.
- ☒ When an event moves from target up the DOM tree.
- ☐ A technique used to stop events from occurring.



What is the output of the following JavaScript code?

```
let x = 10;  
function foo() {  
  x = 20;  
  console.log(x);  
}  
foo();  
console.log(x);
```

- ☐ 10, 20
- ☒ 10, 10
- ☐ 20, 20
- ☐ 20, 10

Which operator is used in MongoDB queries to specify a range of values?

- ☐ \$range
- ☐ \$interval
- ☒ \$gt and \$lt
- ☐ \$between

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