REPLIQ Jr ReactJS Quiz

The purpose of this simple quiz is to survey your overall understanding of ReactJS

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* Indicates required question

Email *

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What is conceptually true for React? *

5 points

○ Events flow downwards and data flows upwards

⦿ Data flows downwards and events flow upwards

○ Both data and events flow downwards

○ Both data and events flow upwards

Your Contact Number *

5 points

01967318743

What IDE do you use? *

5 points

○ MS Visual Studio

○ Jetbrains IntelliJ IDEA

○ VIM

○ Emacs

○ StackBlitz

⦿ VS Code

○ Atoms

○ Brackets

○ Netbeans

○ Sublime Text

○ AWS Cloud 9

What is a template? *

5 points

○ Templates are usually text strings that are placeholders for static and dynamic data

○ Templates are files that can contain HTML

○ Templates are files that can contain XML

⦿ All of the above

○ None of the above

What is the purpose of frontend JS frameworks? *

5 points

○ Clear separation of logic

○ More readable code

○ Better project structure

○ Established standards

○ Embedded best practices

○ Battle tested and documented

○ Less boilerplate

◉ All of the above

○ None of the above

What is REST? * 5 points

○ A protocol for storing data in the backend

○ A client that handles communication between the server and the database

○ A method to communicate between client and server

○ An HTTP layer that handles communication between two parties

◉ All of the above

○ None of the above

What does MVC stand for? * 5 points

◉ Model View Controller

○ Model Validation Controller

○ Model View Console

○ Model Verification Code

Your Full Name * 5 points

Md Noman Faysal Ridoy

Describe the purpose of a React component? * 5 points

○ A class based React component can fetch and store data but a functional component can only present data passed as props

○ A React component encapsulates data, logic and template in order to make it easier to develop maintable and scalable JS applications

○ A React component must always return some markup that can be rendered

○ A React component's sole purpose is to handle state in an app

◉ All of the above

○ None of the above

How do You deal with styling in Your React projects? * 5 points

◉ Tailwind CSS

○ Bootstrap 4/5

○ React Bootstrap

○ MUI

○ Material Design

○ Styled Components 🧴

○ Inline Styling

○ Write CSS from scratch 💥

Describe the lifecycle of a React component * 5 points

◉ It has three phases: mount/update/umount

○ It does three specific things: bootstrap, connect and disconnect

○ In a class based component You can write code for componentDidMount, componentDidUpdate and componentWillUnmount to control the behaviour of a component

○ It calls three methods in a class based component: constructor(), render() and componentDidMount()

Is React opinionated? *   5 points

◯ Yes!

⦿ It depends, what do You mean by opinionated?

◯ No, frameworks do not have opinions

What routing library would you use for your React.js project? *   5 points

⦿ React Router

◯ File Based Routing

◯ Tanstack Router

◯ React Navigation

◯ Write my own Router

◯ None of the above

How would You deal with form validation? *   5 points

◯ I would do all validation in the backend

⦿ I would do all validation both in the backend and the frontend

◯ I would do validation only in the frontend

Can You handle REST calls with JS without the use of any external libraries?   * 5 points

⦿ Yes

◯ No

◯ Maybe

Describe the most important difference between arrow functions and the function keyword when writing functions in JS.   * 5 points

☑ An arrow function always refers to "this"

☑ In a regular JavaScript function, the "this" value (aka the execution context) is dynamic

☑ An arrow function implicitly returns a value if You exclude the curly braces ({})

☐ You should always define a constructor inside an arrow function

☑ A regular function supports "hoisting"

☑ An arrow function does not define its own execution context

☐ You need to bind an arrow function to a React class based component in the constructor

☑ A regular function has a built in "arguments" array-like object containing the list of arguments with which the function has been invoked

☐ All of the above

☐ None of the above

What is true for "class" based vs "functional" components in React? *   5 points

☑ A class based component can store and update state

☑ A class based component can be extended

☐ A class based component can use hooks

☐ A class based component can only be updated once

☑ A functional component can store and update state with the useState hook

☐ A functional component can only receive props

☐ A class based component must have a render() function

☐ A functional component can only be updated once

☐ A function based component must have a render() function

☑ A class based component can handle side effects when a component is mounted/updated/unmounted

☑ A function based component can handle side effects when a component is mounted/updated/unmounted

☐ All of the above

☐ None of the above

How would you validate data? *　　　　　5 points

○ Only validate in backend

○ Only validate in frontend

● Both of the above

○ None of the above

Does React handle application state for You out of the box? *　　　　　5 points

○ Yes

○ Only if You write some specific logic

● No

What is the purpose of useState in React? *　　　　　5 points

● It is a hook that can be used within a functional component to store and update a state

○ You can pass a callback to useState in order to carry out some extra logic after state has been updated

○ This is a correct use of useState: useState(prevState => {...prevState, foo: "bar"})

○ The hook useState can only be used inside a functional component

○ The hook can easily be used in a class based component

○ You need to define a variable named initialState and pass it to useState

How would You deal with i18n? *　　　　　5 points

○ I would write my own simple logic for switching out phrases from a JSON object

● I would use an external library

○ I would write my own library from scratch and open source it

○ I would write my own React component that takes a key as a prop and then returns a string

What is the purpose of a promise? *　　　　　5 points

○ A promise is a declaration or assurance that one will do something or that a particular thing will happen

● A promise is a coding block that is executed sometime in the future and it either resolves or is rejected based on the outcome of the requested operation

○ A promise can never be broken

○ A promise can have three states: PENDING, RESOLVED, REJECTED

How would You solve navigation in a React based SPA? *　　　　　5 points

● I would use React Navigation

○ I would map different regexes and then return a Component

○ I would use NextJS to handle all my routes

Submit　　　　　■■■■■■■■■■　Page 1 of 1　　　　　Clear form