

Questions:

1. How does Javascript work?
2. What does Js event loop do?
3. What is the difference between Local Storage and Session Storage?

Answers:

1. JavaScript is an interpreted language. For different browsers, javascript uses different engines. Among them, JavaScript V8 is used in Node.js and Chrome. V8 engine executes Javascript by interpreting code line to line, and it uses a JIT(just-in-time) compiler inside it. After getting the Js Source code, the V8 engine parses that code first and then turns it into an abstract syntax tree. Then after generating Bytecode, the V8 engine optimize and compile the code and finally runs that optimized code.
2. Js event loop is the main reason for Js asynchronous programming. Js is an interpreter language. It executes all operations on a single thread, but js uses some smart data structures. These data structures give us the illusion of multithreading while running js code.
3. In HTML5, the browser can now store data in local storage & session storage. In local storage, we can access data from all windows, but in session storage, we can only access that data from a private tab. The session storage expires when the tab is closed. On the other hand, local storage never expires. Local storage data remains after the browser restart, and even OS reboots.