***Node Js***

**What is Node.js**

Node.js is a cross-platform runtime environment and library for running JavaScript applications outside the browser. It is developed in 2009 and built on Google Chrome's JavaScript V8 Engine to creating server-side and networking web applications. It is open source and free to use.

**Features of Node.js**

Following is a list of some important features of Node.js that makes it the first choice of software architects.

1. **Extremely fast:**Node.js is built on Google Chrome's V8 JavaScript Engine, so its library is very fast in code execution.
2. **I/O is Asynchronous and Event Driven:**All APIs of Node.js library are asynchronous i.e. non-blocking. So a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call. It is also a reason that it is very fast.
3. **Single threaded:**Node.js follows a single threaded model with event looping.
4. **Highly Scalable:**Node.js is highly scalable because event mechanism helps the server to respond in a non-blocking way.
5. **No buffering:**Node.js cuts down the overall processing time while uploading audio and video files. Node.js applications never buffer any data. These applications simply output the data in chunks.
6. **Open source:**Node.js has an open source community which has produced many excellent modules to add additional capabilities to Node.js applications.
7. **License:**Node.js is released under the MIT license.