**Node JS**

**Difference between Tomcat Server and Node js**

Tomcat is a web server for web application written in java

Node JS is a runtime environment for application in JavaScript.

You see, Node (plus the underlying V8 engine) is more of the equivalent of the JVM (Java Virtual Machine) than Tomcat.

You can develop any type of application no Node. A subset of those will be server applications, and then a subset of that will be web server application.

Now, perhaps the most commonly used web server on Node is **Express**

JVM Vs V8+Node

Java Vs JavaScript

Tomcat Vs Express

**Difference between mongodb and mongoose**

I assume you already know that MongoDB is a NoSQL database system which stores data in the form of BSON documents. Your question, however is about the packages for Node.js.

In terms of Node.js, [mongodb](https://www.npmjs.com/package/mongodb) is the **native driver** for interacting with a mongodb instance and [mongoose](https://www.npmjs.com/package/mongoose) is an **Object modeling tool** for MongoDB.

Mongoose is built upon the MongoDB driver to provide programmers with a way to model their data.

Mongodb is the **database itself**, while Mongoose is **an object modeling tool** for Mongodb.

Mongoose provides a straight-forward, schema-based solution to model your application data. It includes built-in type casting, validation, query building, business logic hooks and more, out of the box.

**Difference between http and express**

The http api is very simple and is use to setup and manage incoming/outgoing, HTTP connections, Node does most of the heavy lifting here but it does provide things you will commonly see throughout most node web framework such as request and response.

**Express framework:** The express framework provides an abstraction layer above the vanilla http module to make handling web traffic and APIs a little easier. There is also tons of middleware available for express (and express like) framework to complete common task such as CORS, XSRF, Post parsing, cookies etc.