**Which is Better, Golang or Nodejs?**

Graphical user interface, application

Description automatically generated with medium confidence

Currently, web developers have a wide choice of programming languages. Golang and NodeJS are the most revolutionary programming languages ​​in website development. This language is slowly displacing traditional server languages ​​such as Java and PHP. Both support website development both in terms of front-end and backend. However, which one is better? Golang or NodeJS?

Although both are backend side programming, they both have fundamental differences. NodeJS is a JavaScript development framework that became popular in 2018. Meanwhile, Golang or Google Go is a new programming language that has become popular in recent years.

The current trend of back-end website development brings us to the pattern of non-UI code which means less code is directly connected to the end-user. For instance purposes, data from the database will only be stored in one place (generally in JSON form). Users can only access data from this JSON.

**Golang**

Shape

Description automatically generated

Golang is a free and open source programming language developed by Google in 2009. It is well known for its contribution to making network applications more powerful, easy and efficient. Golang brings evolution to website development. Golang's jargon as per the documentation is expressive, concise, clean, and efficient. Usually golang occupies the server side because it is fast, and built in concurrency. In addition, it also supports websites with high traffic levels. This language is also static so there will be no runtime errors. Furthermore, Golang is also capable of making dev-ops tools. Golang is a technology that makes up various tools such as Docker, Kubernetes, Terraform, and Vault

The uniqueness of Golang is simpler. Although Golang does not support object oriented programming (because there are no classes and objects), it does support structs. In a struct, the user defines his own data type. Therefore, Golang is often the technology for building rest APIs. Golang is also included in the 16 most popular programming languages ​​according to Stack Overflow in 2018. Golang builds large websites such as Uber, BBC, Sound Cloud, and Basecamp.

**NodeJs**

Graphical user interface, application, icon

Description automatically generated

NodeJS is a Javascript language framework based on Google Chrome's V8 engine. For those who don't know, NodeJS was first introduced at JSConf 2008. Similar to Golang, Node JS is also open-source and supports crossplatform. Javascript supports both front-end and back-end side. Therefore, web developers do not need to learn two different programming languages.

NodeJS is the most popular programming language according to StackOverflow. NodeJS is capable enough to build big websites like Netflix, eBay, and Groupon. According to the NodeJs Foundation, 39% of users use NodeJS for front-end and full-stack development. On the other hand, NodeJS is not well known for front-end and desktop application development.

To facilitate smooth application development, NodeJS is facilitated by a rich library of JS modules. This framework also has its own webserver making it possible to run websites without the support of other applications such as Apache. The use of NodeJS is highly recommended for real-time application development.

**Golang VS NodeJS**

Before deciding which language is better, let's compare these two technologies based on the factors that affect programming language performance

1. Performance

Golang is capable of developing applications that have many microservices. Golang's speed is equivalent to C and C++ which means it belongs to the fast category. Built-in Garbage which will monitor memory usage.

Meanwhile, NodeJS supports asynchoronous processes. Small services will be executed behind the scenes without disturbing the main thread. The code in nodeJS is reusable. It is suitable for the process of updating data in real-time applications

1. Scalability and concurrency

Golang is very famous for its concurrency. This feature makes the Golang very light and has excellent performance. With this concurrency, Golang can send methods from one channel to another. Meanwhile, NodeJS only supports single thread

1. Developer Community

NodeJs has a much bigger community than GoLang. To date, NodeJS has reached 1 million downloads and 56000 stars on Github. Golang has a smaller community. However, that does not mean Golang can be underestimated. This community continues to grow from year to year.

1. Tools

NodeJS is more IDE supported than Golang. Npm is the most important tool of NodeJS, although sometimes the process is very long. However, NodeJS has robust tools, such as Gofmit, Godoc, GoMetaLiner, and Go ru

1. Error handling

NodeJs uses traditional programs like try..catch to support error handling. However, it is much better than Golang. Therefore, NodeJs

Which one is better?

Depends on the type of application. If we are going to develop applications with many microservices, and large scale, use Golang. However, if the project is an application that has a manual solution use NodeJs

Therefore, the answer to which question is better, golang or nodejs is difficult to answer because it depends on several things. I hope you get enlightened!