

Node js

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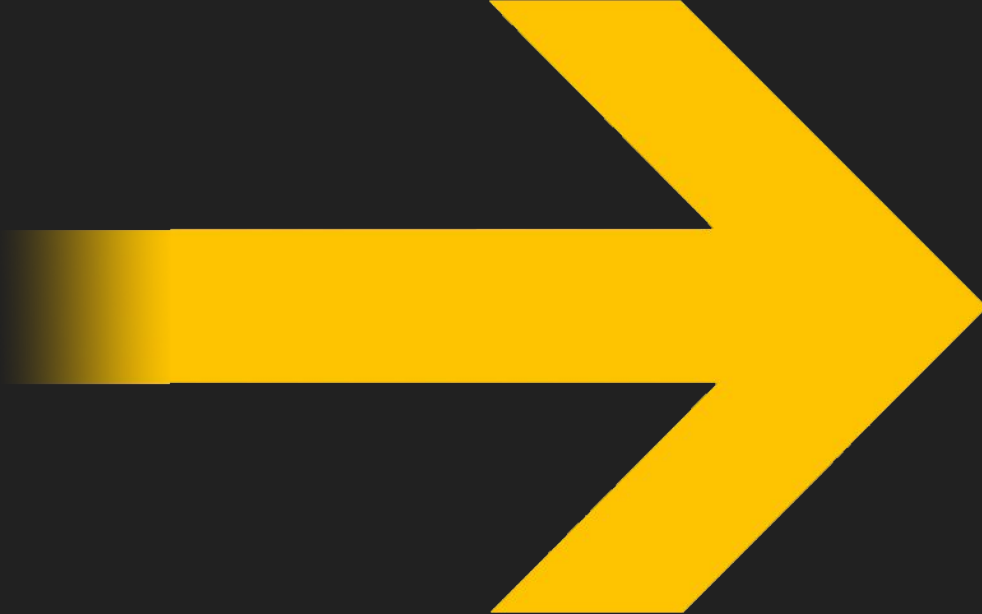
Node js:

Node js is a platform built on javaScript foundation.

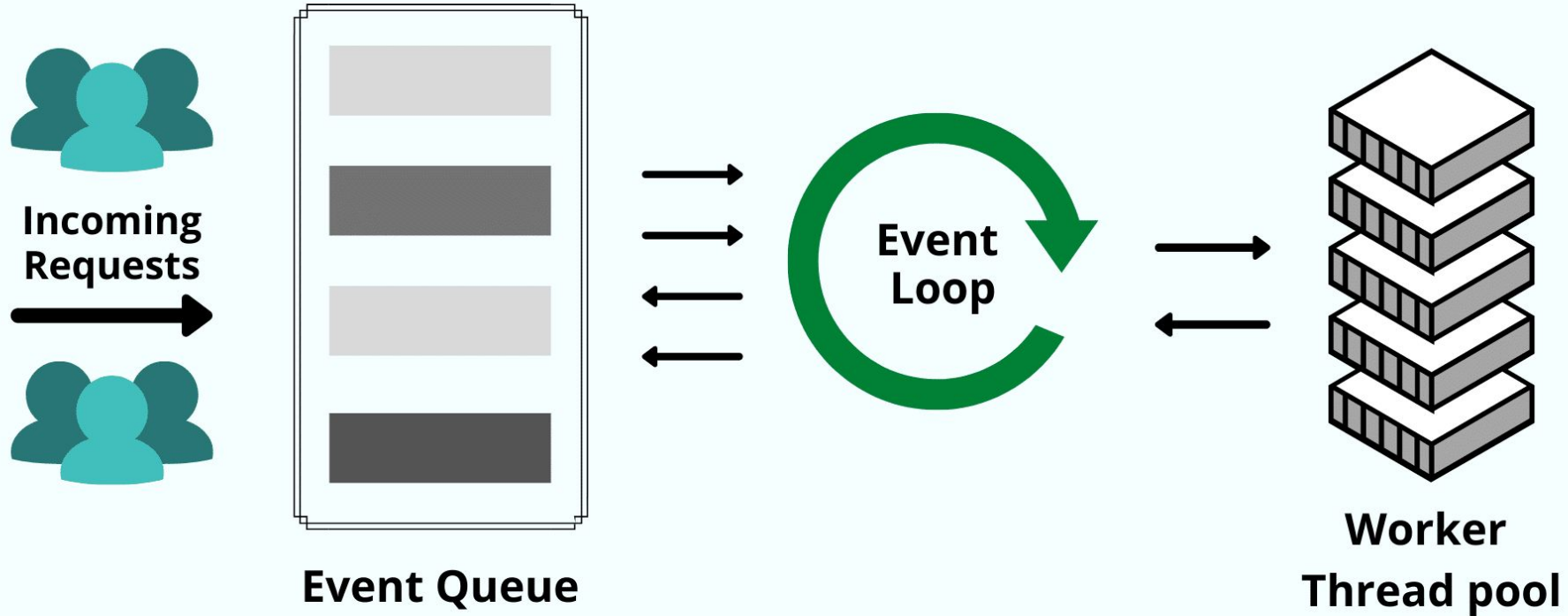
It helps us develop web and single page applications.

Node js architecture:

Node js architecture for handling multiple client requests.



Node.js Architecture



Node js :

1.Node js server:node js server receives user requests,processes them and sends feedback to users.

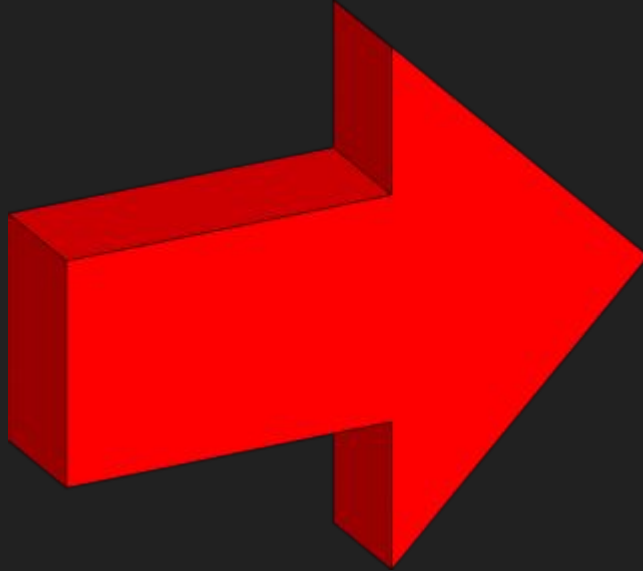
2.Event queue:event queue helps in request handling.It arranges incoming requests and sends them for processing one after the other.

3.Requests:these are the tasks users try to perform on web applications. They are send to the web applications's server.

4.Thread pool:These are the number of available threads used to carry out every incoming request by user.

5.Event loop:event loop receives requests from clients,processes them,and sends them back to client.

6.External resources:These are resources that help perform client requests.



Node js uses asynchronous programming

`setTimeout()`

`setInterval()`

Node modules

Modules to same as javaScript libraries

A set of functions you want to include in your application.

Include modules:

`require()` function :is use for include module

```
Var demo=require('modulename')
```

module:

Own module:

This type of module is user define module,

```
exports.mytask=function(){  
  return "pratibha testing today"  
}
```

Exports keyword to make properties and methods available outside module file.

```
var mdemo=require('./modulename')
```

Predefined module

Http module:

Http module can create an HTTP server that listens to server ports.

Use `createServer()` method to create an HTTP server.

Example for create server

```
var ht=require('http')
```

```
ht.createServer(function,req,res){
```

```
    res.write('hello student');
```

```
    res.end()
```

```
}).listen(8080)
```

8080 is a port number