NODE.JS ( by Pawan sir)

Node.Js :-

1. It is developed by ryan dhal

2. Node.Js is not a programming language.

3. NodeJs is javascript runtime enviornment build upon the google chrome v8 engine.

4. NodeJs allows us to run javascript on server or outside the browser.

5. In NodeJs, Javascript is everywhere.

6. NodeJs application is superfast and highly scalable.

a. 33% fewer line of code

b. 40% fewer files

c. 2 \* request/sec

d. 35% faster response time

7. NodeJs uses synchronous/blocking and asynchornous/non-blocking library both

8. NodeJs application is asynchronous in nature by default

9. NodeJs uses Single Thread Javascript Event Loop Model

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NodeJs libraray :-

Modules/Dependency

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Application Level Global(Envrionment)

| nodemon

------------------- @angilar/cli

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Default Installable

event mysql

fs body-parser

http express

url cors

path.. mongoose

express-validator

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How to install Dependency ?

npm install mysql (Application Level)

npm install -g nodemon (Global/Envrionment)

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How to create node application ?

a. first create folder

b. navigate into folder and run npm init command

Why is Node.js preferred over other backend technologies like Java and PHP?

* Node.js is very fast
* Node Package Manager has over 50,000 bundles available at the developer’s disposal
* Perfect for data-intensive, real-time web applications, as Node.js never waits for an API to return data
* Better synchronization of code between server and client due to same code base
* Easy for web developers to start using Node.js in their projects as it is a JavaScript library

### What is an EventEmitter in Node.js?

* EventEmitter is a class that holds all the objects that can emit events.
* Whenever an object from the EventEmitter class throws an event, all attached functions are called upon synchronously

### What are the two types of API functions in Node.js?

The two types of API functions in Node.js are:

* Asynchronous, non-blocking functions
* Synchronous, blocking functions

### What is the package.json file?

The package.json file is the heart of a Node.js system. This file holds the metadata for a particular project. The package.json file is found in the root directory of any Node application or module

This is what a package.json file looks like immediately after creating a Node.js project using the command: **npm init**

You can edit the parameters when you create a Node.js project.