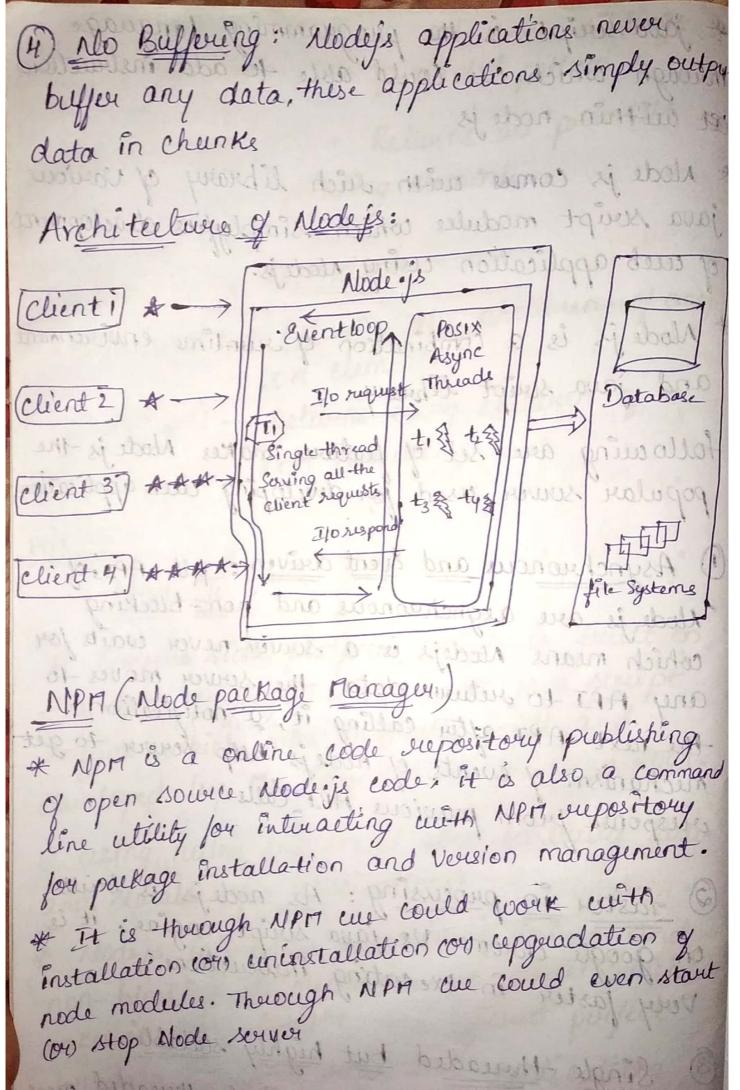
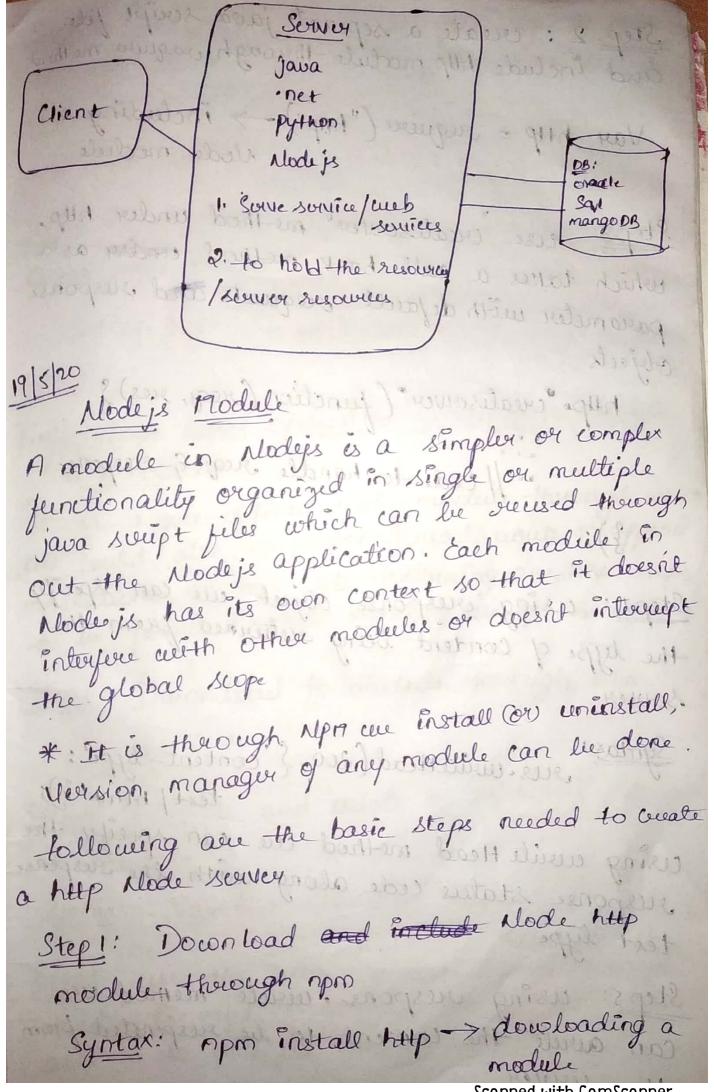
paunte () - returns au parinte tutil mit A souver side platform which is built on the top of google checomis. V8 java soupt engine which was initially built and developed by Mr. Rayn Dal in the year 2009. * using nodejs une lould able to build faster and scalable n/w applications: * Modejs internally uses event deliver and non-blocking Ip mechanism (or) model which makes it light weight and efficient perfect jou data intensive real time applications which sun on distributive system/devices. * Modejs is apen source and cross platjorn van time environment using which we could

develop server side 2 networking based application

* java swipt is the programming language through which are could able to add instructions at within node jes * Mode jes comes with wich library of various java soupt modules which simplyfies development of met application using Modejs. * Alode je is a combination of runtime environment and java swipt library. tollouing are set of features makes Mode is the popular surver used for developing web application 1 Asynchuonous and Event deriver : All APIS Mode je ave asynchronous and non-blocking cohich means Alodejs is a souver never waits jou any API to return data; the server moves to the next API after calling it, a notification! mechanism of events of node is help server to get michanism of evenus y apr calls. Our pravious API calls. (2) faster in processing: As node jes is built on google cheome Vs java svijet engine, it is on google encourse very faster in executing instructions Single thousanded but highly scalable: Internally Mode is uses a single threaded model the survey to suspond in a non-blocking way and makes the server highly scalable.





Step 2: veate a seperate java script file and include http module-through vequire method Var http = require ("http") => including as Mode modele Step3: use "cuateserver" me-thod under http. which takes a call back method words as a parameter with default viequests and viespons. Objects http. createserver (function (reg, ses) { is l'écode to handle rieg & response jaco swipt file which can be sueed moungs Step 4: using versponse object we can spelify the type of content being returned from the Syntax: resemilettead (200, { content-type: text/ html'}); cising wite Head method the can specify the stops needed to bush response status code along with the rusponse text type text bis bool and i got? Steps: using response uvuite memod une can avuile the content to be susponded from the server vus wile ("< content);

Step 6: ruspand end is an pre-défined method thorough which are can send request using ciser response? sies-endci; l'osob about disjon no !! Stept: Make the server to listen to a parte-Cular port no. server. lister (< port number>); 21/5/20 Performinge Mode operations in Mode je through ts Module 'és" is a pue-défined noble modelle-thorough which cue could able to perform relad, write or append operations or any file following are the steps to be followed while making use of its modele Step! Download to module through npm nom i ts Steps: Include and vieate a superence jou to module Syntax: Van és = require ("fs"); Step3: use the following pui-défined methods under te module through which we could able to do any file operations in files

11. Reading data from Existing file. ts. readfile (" filename >", function (ever, data) s Il ever object holds data if there is any evvor while reading file I data holds the actual data of file Il vuating new file using to module ts. appendfile ("filename", "< content to be function (evi) 3 noch module through which Mer will be thrown if there is any ever while creating/ aveiling to file. inatived one & Howating or weiting through ts. open() ts. open ("filename", "operation type>", function (ever, file) s ts. weitefile ("filename", "content", function (evi) Il write file method will replaces all file content 3);

delete files: To delete file using to module ts. unlink ("filename", function (ever) } How if there is any ever while deleting files Securally tradents and so on Renaming feles fs. rename ("filename", newfilename", feinction · 00 CUY Mode Express js framework LINC MO Express js is a cueb application ferame work for node je through which we could able to create flexible noole je mes applications. It is following meachanisms. 1 It civile handlers with veguests with

one of the most popular meb framework provides

- different http at different un paths
- 1 It integrates with view surdering engines in order to generate response by insuting data into templates.
- 3) It sets the common web application sellings like the poet to use joy connecting, location of templates that are used etc

(4) Exposes itself is jainly minimalist developer have vuated compatible middlewave package to address atmost any web development problem 8 There are libraries to work with cookies, sessions, userlogins, ort params, post data, security headers and so on. 6 Express was released on 2010 and current latest version is 4.14. * monely ") manne. ? Folder structure got wested through Express generator 1 node-modules: under which all the node dounloaded node modeles of the auvent app will be stored. This Jolder name cannot be renamed.

De package ison file: It holds a jison object with all the configuration into of the (i) It holds list of dependencies node module (i) Mame and Version number of current. application. (iii) Author name and Contact details (iv) starting point of current applications (node start/server start) etc.

- Bin Jolden: a pere-defined folder holds a pre-defined file 'www' holds the set of instructions through which we could weath http sower, making the source to listen a default port number hardling the everes? If any.
- * Bin folder and www file name can be renamed to a custom name, coverponding changes to be done at package json
- De Routes folder: Holde set of java script files, where each java script file represente single cuebservice: Any no of mebservices can be added within node server, all the mebservices jes files has to be placed under nontes folder.
- * Index. js, usous js and the default services available under router jolder.
- * Once the services are added under routes jolder, coversponding route mapping or vort mapping has to be done under apping file

Steps to vuette à messeuvice under a

Step!: veate a External je file under routes jolder.

Steps: under the jes file, create an instance of Express modele.

Eg: Var expres = require ('Express'); Step 3: cuate a mouter instance and through a router class cender express module. Eg: Var router = express. Router(); Step4: using the souter reference, through GIET/ POST method add the business logic the coversponding messervice under Call back method god by Eq: moutor get ("/", function (sug, sus) &"

// business logic of this sug aubscroïle, des mentes vies. send (); " | million of the send of within neds source, not the o revuler post ("/", function (reg, ses) { · e? // Business where subles. send (); us eniones all sons Modele exports = souter; Steps: under app. je file sperify the scouter path through which web services can be accessible. nede Espicas Rossess the second or extended is lite under