A Section IV: Expression +

With Node is alone, we need to write a lot of code to deal with basic things like extracting body of as incoming request. Typically , so work to focus only on our business logic is we don't want to care about standard to her the handling incoming requests / souting i We use Expression.

A Node is framework (can be installed as a third party raceage) that helps in outcouring come willy-grilly work.

What is Express?

centrer logic is complex

We sant to focus on the business logic, not on nilty-grilly details. Framework: Helper functions, toole & Kules : Vec a framework for all heavy lifting that help us build out application.

(gopalen) express je Adonis je Koa

Saile of ?

const express = neguine ('express');

const app = express(); - express package seems to expert a initialism a new object function in the end, there express () where express stones 4 manages lot of things for us bit s

> app also happens to be a valid request hardler. Elts create Server (app);

Middleware = x an incoming nequest in automatically fundled through Expressible for the pooling in a bunch of functions by repert will go through (Saathi) multiple functions which the Date ___ until we Adding Middleware -Allows to oblit code into early add other and multiple block of pieces instead part Package (that Request of one function (Pluggolde) de Provide middleware + (reg, rec, rest) => 2...3 from that can be Middlewarel plusged into frext()

Express Middle ware

recognosis freet (ney, ree, next) => 2...3 lesponse allow us to add now middleware function. taken in away of request franchers incoming represt respect of parchan packed by express is - this function has uce method (function (takes in function as argument)) to be executed to allow request to there on next middleware We do not see in the second middlessure as we need to call next() to allow request to travel on the next middlewave in line (for from T > B through tile). One next called - just diex other, we must send a response it next is not called. To coe the send (body of type any); II with express

The sent to send (body of type any); II with express

third the geometry '<hir Hello from texpress! </hir type set to

text/hlml. const convey = http. create servey (app)], app. listen (3000); scriven licter (2000); Routing in Express > users her many rencions (4 overloads) apprise ([path], callback I, callback ...])
oftenal argument I 7 - multiple callback s. to filter out certain requests. Page No.

app. use ("1", oney, rus, next) => 1 ... 3); function works for talk 10, 16, 10th, 10th + roduct - because " doce not mean tue" Date noth for to be stock but it has to stoud with Saathi we add "," mode of the last (as request fore through fle from top to bottom). Paneing Encoming Request > : /add-product - we send a form back. nes reduced ("/"); creasing than manually cetting estatus code 4 location with console log (reg. body) i by detault reject doon't try to passe the incoming nequest body. To do this , we need to register a "perser". Typically done before noute-handling middle warry as the paring of body must be done no matter where request ends up setone celling next, function to be executed it does congretere a middlewave function just like (crey, mer, next) => {-3} entire body (in the end cells next() so that may reaches our middlesses done in core module. Note: body-parser parses only bodies cent through a form.
For other binds (files, 1507.), we use different parsers. We get back a JS object with a boy-value pour £ title: 'Book' & makes extracting value casion. NOW, product would also listen to GET negrest, but so part it only to listen to 7087 respect?? Limiting Middlewere Execution -> app.use() - app.get() additional form of filtering (same syntax as appruse () but five only for incoving GET request. Page No.

Typically we sent to split switing code over multiple tiles. ie Export logic in different tiles, and import it in Expression gives as a preely wise day to outsaunce routing into other tiles. New folder - noutes (diff father + HTTP methode here) ladd product of product admin is (handles overling of products) cochop is (user shows) "Zouter' feature of express. const Router = express. Router (); mini-express app fied to / pluggable into other express apps that can be exported here. nouter use ("/", ...)

module exports = nouter; - router is experted & how two routes registered. Nice thing about router is that it is a valid middlewere function.

ic appruse (admin Routes); our routes in odning just the mouter object I file when filing request through this middleware here Order of imports done not matter. Out order of apprece metters it incide shop is, we charge app get ('i',) to appruse ('i',), we see "Hello from Express" in radd-product also. Take care of order (as if we change get post ! - + use, then code will not work) 404 Page -He can take advantage of way Express use middlewaxe and funnels negrest through them (T - B) confinde commentere that handles made - fore in there. 4 no fitting middlewave found - send 404 ever page done by simply catching sall middlewave at the bottom: appruse ((reg. mi, next) => { ... });

(require main flename) - figuring out the entry point for coverent application. (Saathi) Serving HTML file, rece send () -> nec-send File (it ress / shop home!); I wo such file on directory ", refore to most folder on our OS, not to project We we a terfure provided by Node to point to file. [core module - path] we send file by deating a path using join()

detects as sine sunning to return a constructed path

e create path accordingly. (consisting of different sections).

1st segment > Node is global variable (-dinname).

Rolde absolute path on as to this end regment - folder name and regment - file. -- dianome, 'vers', 'shop helme!'. thus we need to go back - so so add? Helper function for Navigation To get parent directory (and not always use '.'), we can create a helper function. We create a new folder "util" -> path je file. Name does not matter even though it clother with global module (as import is different).

(deprecabled).

[global Node volumble] module exports = path duname (2000cs main Module filename)

variable to construct path returns directory reform to main which file

to povert directory. name of path module that started was

[...) ton which file we I the app epur up

need directory name

The app is generally Neat way of constructing path to noof directory.

(Saathi) Cenving file statically containe files exposed to everyone We generally cannot access the file system in Expussion localhost Niews/shop. when - Page Not found. But , we want to make an exception is some requests can access file eyeten is shop himl substances file. < link " somet = "/ccc/moin.ccc" > all style is gone. as we cannot access the main-ces file. - not handled by Express router or To come file statically, other middle same but directly forwarded to tile eyetem. se register a express se come serves etable. nes middleware shipped with files.

(...)

Grant to the folder se wont to serve statically.

folder we sont to grant "read" access to. Spret = "/public /moin.ccc" on Prof = "/ccc/moin.ccc"

We act as it we're already

in public folder.

Expres takes any request that itruce to find some file , it autometically forwards it to public

folden.