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Node js

Node.js is a library
One more library is Express.js
It will connect frontend with database.
It also like middleware

Module
It is a package like (libraries)

3rd party modules:
    numpy
    pandas

Math module custom module:

(math.start)

To run node files => node filename

   In node we can use express.js as middleware

(node filename)

Question:
OD:
filter only yes
Display only the customers address where the branch name
same.
Current balance 20,000 to 20,000 filter their phone.no alone
filter only the savings account
add the column name status: same those who having
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(v) add the column name status: same those who having same IFSC code ten

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Node:

module

require from node js - helps to include modules in our code
below example custom module

```
const http = require ('http'); // Built-in module
const express = require ('express'); // Third party module
const sayHello = require ('./greet '); // custom module
```

Node

client → request
server → response

To run server (node) → node Appname
                              file

Note:
Always start a server first.

Nodemoon → It is used to simply the work of refreshing
the browser.

Node.js:
Runtime environment that allows you to run javascript
on the server-side.

Note:
Maintain split terminals in vs code in order to
use client and server.

Run command:
Always starts the server first

```
node filename
(server.js)
```

Command to run client (frontend)
        npm start

To install express:
      npm i express

to getting all packages from
      we use require() & is from node.js
               ⑤keyword

sending request → post()
getting request → get()

   Server always respond in the JSON format.

To activate port ⇒ .listen(port, ()=>{3)

When we delete package.json.
To reinstall the package use command

               ⤵
          npm init -y

Run the server:
   Server console is below the our command not in browser
inspect-console

Axioms:

   Its a popular js library used to make http request
from the browser (server

Axioms is known for easy and clean syntax also flexibility exspecially works well with API s and Rest API

Rest API

When we ~~right~~ write an API for exclusive purpose we call it an Rest p API.

CORS:

(Cross Origin Resource Sharing)

When a web page request information from resource ☆ (from any other sites) whether to accept the request and process it or not. will be defined in a Rule book.

To install axiom
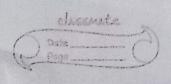   npm i axioms
To install CORS:
    npm i CORS

In node we don't need to use import be instead we use require

To install nodemon

    npm i -g nodemon

In the given example we are requesting data from server

In datacomponent.js as client using 'http' get method via API / api/data

Server responds as json from the json i want to filter only the msg, so we are using from cors & e responds.data.message

Create mongo-crud App
    inside src
        Users.js
        Create_User.js
        Update_Users.js

Model:
  Name
  Age   } store them in MongoDB
  Email
  [button] Add user

Dependencies:

install(-) Router
    axios
    Express, cors

App.js
  Routing in App.js for three page

Create server folder
    inside folder path. | npm init |

Write ⁱⁿ ~~index js~~ backend code in index.js

Create new folder inside server
        named as model
    Create Users.js There write server code
In terminal run npm i mongoose

app.post ("Create User", (req, res) => {
      UserModel.create (req.body) , This is in cars
  | database |
Create emp!:
    emp id
    emp name
    emp salary
    contact : array

create empl component

MySQL =) Group By
MongoDB =) aggregation

local Field =) like primary key
foreign field =) like foreign key
lookup => It's look for particular task
from =) another collection

db. companies .aggregate ([{$ lookup : { from : 'employees',
local Field : '_id', foreign Field : 'company_id', as : 'employee'}}])

⬆ Here, local field belongs to employees
foreign field belongs to companies
new matched document will be added as an array
in companies and the array name is employees.

Create a database called bank , create two collection under
that named as customer ~~and~~ personal and customer_account

Data model : (1)
name : string
address : array
PhoneNo : Object (2 phonenum) num1, num2
Age :

Data model
Account : number
Branch : string
Bank Name : string
IFSC code : string
current Balance : float
Account type : saving and current
OD : Yes or No