## JavaScript crud operation =>

https://www.youtube.com/watch?v=k4HRR85Af-l

## MERN Stack =>

https://www.youtube.com/watch?v=nu0z\_RVs7r8

## MongoDB Module in Node js

https://www.youtube.com/watch?v=fbYExfeFsI0 ⇒ Connecting & CRUD Operations (Part 1 of 4)

Торіс	Reference Links
Git	https://www.w3schools.com/git/default.asp
Linux	https://www.hostinger.in/tutorials/linux-commands
HTML	https://www.w3schools.com/html/default.asp
CSS	https://www.w3schools.com/css/default.asp
Boostrap	https://www.w3schools.com/bootstrap5/index.php
Javascript	https://www.youtube.com/watch?v=PkZNo7MFNFg&t=30s https://www.w3schools.com/js/default.asp
Typescript	https://youtu.be/gp5H0Vw39yw
ES6/ES7/ES8	<ul> <li>https://www.youtube.com/watch?v=NCwa_xi0Uuc&amp;t=18</li> <li>https://www.youtube.com/watch?v=nZ1DMMsyVyI&amp;t=9s</li> </ul>
ReactJS	<ul><li>- https://www.w3schools.com/react/default.asp</li><li>- https://youtu.be/QFaFIcGhPoM</li></ul>
Redux	https://redux.js.org/introduction/getting-started https://www.youtube.com/watch?v=poQXNp9ItL4&t=3970s
Material UI	https://mui.com/getting-started/installation/
React Styled Components	https://youtu.be/FSCSdAILsYM
NextJS	<ul> <li>https://nextjs.org/docs/getting-started</li> <li>https://www.youtube.com/watch?v=mTz0GXj8NN0</li> <li>https://www.youtube.com/watch?v=MFuwkrseXVE</li> </ul>
React Boostrap	- https://react-bootstrap.github.io/getting-started/introduction
NodeJS	https://youtu.be/TIB_eWDSMt4 https://youtu.be/RLtyhwFtXQA
Sequelize ORM	https://youtu.be/ExTZYpyAn6s

Topic	Reference Links
Git	https://www.w3schools.com/git/default.asp
Linux	https://www.hostinger.in/tutorials/linux-commands
NestJS	https://docs.nestjs.com/ https://www.youtube.com/watch?v=wqhNoDE6pb4&t=2496s https://www.youtube.com/watch?v=F_oOtaxb0L8&t=1522s
GoLang	https://go.dev/tour/welcome/1 https://gobyexample.com/
Go SQL	https://pkg.go.dev/database/sql https://www.youtube.com/watch?v=Y0IDGjwRYKw&list=PL4cUxeGkcC9i K6Qhn-QLcXCXPQUov1U7f
Blockchain	
Ethereum Blockchain	
Ethereum Smart Contracts	
Smart Contract Interaction	https://youtu.be/t3wM5903ty0
Solidity	

Node express MongoDB (CRUD-Operaration) => <a href="https://www.youtube.com/watch?v=W1Kttu53qTg">https://www.youtube.com/watch?v=W1Kttu53qTg</a>

Express JS Code with Harry => <a href="https://www.youtube.com/watch?v=7H\_QH9nipNs">https://www.youtube.com/watch?v=7H\_QH9nipNs</a>

Unit testing => <a href="https://www.youtube.com/watch?v=u5cLK1UrFyQ">https://www.youtube.com/watch?v=MLTRHc5dk6s</a>

1. //command to list directories and files //command to see all dirs and files with hidden also Is -R //will list all down all the 2. //to find path of current directories pwd 3. //command to change the directories cd Desktop //will bring you from there to desktop cd Desktop/Practice //skip multiple directories cd .. //to go to 1 level up towards root directories cd - //to go to the previous directories cat fileName.txt //to show the contents of the file cat > fileName //creates a file cat fileName1 fileName2 > fileName3 //file1 and file2 will be added and goes into a new file file3 cat filename | tr a-z A-Z >output.txt //converts all chars into uppercase and put into a new file output.txt

cp scenery.jpg /home/username/Pictures //creates a copy

5. To kill a process running on port 909	0
npx kill-port 9090	
6. How to edit a file from terminal	
Vim filename.extention +line no.	

- 7. To exit from vim type command
  - a. Save and exit
    - $\rightarrow$  press esc and then type ":wq"
  - b. Exit without save
    - →type ":qa!"

8.

------MongoDB Cheat Sheet ------

Open terminal and type 'mongo' to go into the mongodb environment

- 1. To see the current database
  - $\rightarrow$  db
- 2. To see all the database
  - $\rightarrow$  show dbs

- 3. To go to a particular database
  - →use dbName
- 4. To create a database
  - →use dbName

//a database will be created

- 5. To see collections of a db
  - → show collections
- 6. To find all the documents in a database
  - →db.collectionName.find().pretty()
- 7. To find the particular document in db
  - → db.collectionName.find({"fieldName":"fieldValue"})
- 8. .pretty() will show the documents in a user friendly way
- 9. To delete a document

 $\rightarrow$ 

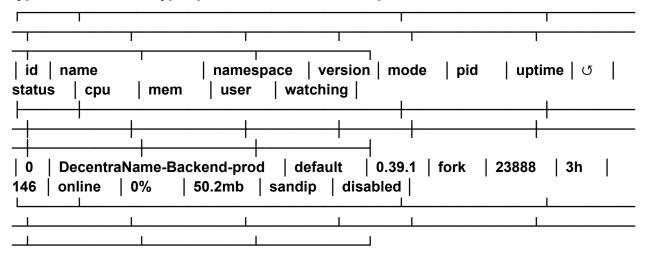
-- How to server in terminal and how to start, stop, and debug in server —-----Start from here —-----

// to find ssh key in terminal cat ~/.ssh/id\_rsa
--> output like below ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAACAQDD7o7Dp+GEm/guJ85SWGGP5esW3pYcnYm HfowOm2Qq2jJXyG3HYfhf4+unTRSWCkjHkRn0f5Z/UbQKjlpFlkpqpQUKwNA8z3hAiY1r6n JjxWRGj/N0l6V5SZH4dfNDR0GkpjBKKHYW6wJrKwoP740UyWeaBmkV79rYRuGNcjXwzW h/tqHEEMsCTsSlg+5NOzEZlCyKZd6WGlpcvRK+kf+44KuVbZypKmVbc5vhlaq9FPetrWUH XSn3QjB401E8pH5h82jVoZ9W65hmw6t9qzSV/P7673+embtTfgCASLpoaThmk6xDNHDbMs BDlaZPGHzqsCnqa8fks+aBGmCvn48RNECxlm+2YkNwul5mTwaFmK8VQwQDs0/+srqoBY hfoW8gss2FiwL6TlpOf0tjajo0+F13zfRGA7gRcqve4aSlPnhNWgdakA5lnM79bk4Agu1b8A3 PTPnhj7HnM9EmjCrEyY0gA8G/gMCVNdww8DxwY6eNA/oz7QFZcL2LQl5yMhnddmg2Rzm HvN7bRDpBYslim/VCU/e86Y+0TSCjsF9eZH+L0Hw1STCpbVWHzRTVftxZp/p5kgAlql2wsy UkkLrBlt+ZNXxP+tniEOX12526ZO8LOpxBbGN5kARpcXpKoFTQCwkEyLyOd19RUf30dSkJ 8mgjaTBASQL+HVX7Y70c5w== arvind.s@knackroot.com

// to connect to server type below command which will be granted by admin ssh sandip@34.93.107.95

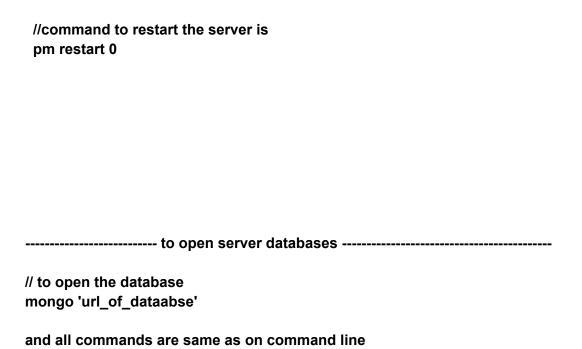
// command to see the log of server from local type "fish" and then type "pm2 status" will show output like below



then type "pm2 logs --raw 0 || pino-pretty -t" will show some logs and then send somerequest to the server and then you can see logs of that request in your terminal

```
"signature":
"0xa9e1acc25b8b6ac1d718ea883b730bd987e64328c65f2c58a10252a7a1c2b7ba48c6d0823
6db849f0106dd22e8dcbff6c477ea13772492db88601ef545a7c3c21c"
[2022-04-18 09:08:09.982 +0000] DEBUG (23923 on dweb-testnet): Generated subdomain
registration commitment is
0x274cc6f1a3fea38d8a247326fe1ef2c39d67e699e87d16b0068bd1659b778b87
[2022-04-18 09:08:09.986 +0000] DEBUG (23923 on dweb-testnet): request completed
  req: {
   "id": 583,
   "method": "POST",
   "url": "/api/v1/approve-subdomain-registration",
   "query": {},
   "params": {},
   "headers": {
    "host": "api-hotfix.decentraweb.org",
    "x-real-ip": "172.70.218.69",
    "x-forwarded-for": "27.109.10.98, 172.70.218.69",
    "connection": "close",
    "content-length": "304",
    "accept-encoding": "gzip",
    "cf-ipcountry": "IN",
    "cf-ray": "6fdc410fefdb8489-BOM",
    "x-forwarded-proto": "https",
    "cf-visitor": "{\"scheme\":\"https\"}",
    "sec-ch-ua": "\" Not A;Brand\";v=\"99\", \"Chromium\";v=\"100\", \"Google
Chrome\";v=\"100\"",
    "accept": "application/json, text/plain, */*",
    "content-type": "application/json",
    "sec-ch-ua-mobile": "?0",
    "user-agent": "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/100.0.4896.75 Safari/537.36",
    "sec-ch-ua-platform": "\"Linux\"",
    "origin": "https://dns-hotfix.decentraweb.org",
    "sec-fetch-site": "same-site",
    "sec-fetch-mode": "cors",
    "sec-fetch-dest": "empty",
    "referer": "https://dns-hotfix.decentraweb.org/",
    "accept-language": "en-GB,en-US;q=0.9,en;q=0.8",
    "cf-connecting-ip": "27.109.10.98",
    "cdn-loop": "cloudflare"
   },
   "remoteAddress": "::ffff:127.0.0.1",
   "remotePort": 40806,
```

```
"body": {
    "name": [
     "qw2"
    "label": [
     "arvind1"
    "owner": [
     "0xb66Fb7DDe8317c9758f611237A41AbB4aBD596DA"
    "sender": "0xb66Fb7DDe8317c9758f611237A41AbB4aBD596DA",
    "chainid": 4,
    "signature":
"0xa9e1acc25b8b6ac1d718ea883b730bd987e64328c65f2c58a10252a7a1c2b7ba48c6d0823
6db849f0106dd22e8dcbff6c477ea13772492db88601ef545a7c3c21c"
   }
  }
  res: {
   "statusCode": 200,
   "headers": {
    "x-powered-by": "Express",
    "access-control-allow-origin": "*",
    "content-type": "application/json; charset=utf-8",
    "content-length": "250",
    "etag": "W/\"fa-nRBIMQDzQ29g1NIICxyOaMK98Bg\""
   }
  responseTime: 1658
                  -----log end-----
 you can also use here command like Is, cd ...etc
 you can here go in other directory from one directory
 vim server.js +882 ==>> will take you directly on line no. 882 in server.js file
 //how to come out of file after editing it
 first press esc and then write ":wq" //file will be saved and you will come out of it
 :qa! //will revert all changes and come out of file
```



//////////////////////////////////////
http://api-hotfix.decentraweb.org/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca8 1A3e2e359A5/1117891933668656885728764237058333928105963422472794174248138102 48520900485797

/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca81A3e2e359A5/1141588560161583 95205133926306375730687796272107414733352047611645122469507791

/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca81A3e2e359A5/9034308898612262 3064338623152080104491054495775137480885431604825704800275724

/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca81A3e2e359A5/3613218069913091 9585461079917001875437755494182463282972044637284579234773096

/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca81A3e2e359A5/6319605719346058 9855545851449855449231863547530948773411870846144558249507695

/api/v1/metadata/0xd860Cda0E428C7C7A905739B81Ca81A3e2e359A5/4795073776890453 3894650159587846786639655203028705205925749962246989678777537

```
req: {
 "id": 366,
 "method": "GET",
 "url": "/api/v1/image/6eeb23a7-bc50-4d4b-a795-a4b40fbe47b6",
 "query": {},
 "params": {},
 "headers": {
  "host": "api-hotfix.decentraweb.org",
  "x-real-ip": "172.68.118.49",
  "x-forwarded-for": "35.77.187.86, 172.68.118.49",
  "connection": "close",
  "accept-encoding": "gzip",
  "cf-ipcountry": "JP",
  "cf-ray": "6fe5911ebc14341a-NRT",
  "x-forwarded-proto": "https",
  "cf-visitor": "{\"scheme\":\"https\"}",
  "user-agent": "okhttp/4.9.3",
  "cf-connecting-ip": "35.77.187.86",
  "cdn-loop": "cloudflare"
```

```
},
   "remoteAddress": "::ffff:127.0.0.1",
   "remotePort": 49854
  res: {
   "statusCode": 200,
   "headers": {
    "x-powered-by": "Express",
    "access-control-allow-origin": "*",
    "content-type": "image/png",
    "content-length": 21558
   }
  }
  responseTime: 135
Failed to generate metadata image Error: Could not find MIME for Buffer <null>
  at Jimp.parseBitmap
(/home/sandip/decentraname-backend/node_modules/@jimp/core/dist/utils/image-bitmap
.js:187:15)
  at Jimp.parseBitmap
(/home/sandip/decentraname-backend/node_modules/@jimp/core/dist/index.js:431:32)
/home/sandip/decentraname-backend/node_modules/@jimp/core/dist/index.js:373:15
  at FSReqCallback.readFileAfterClose [as oncomplete]
(internal/fs/read file context.js:71:3) {
 methodName: 'constructor'
Failed to generate metadata image Error: Could not find MIME for Buffer <null>
  at Jimp.parseBitmap
(/home/sandip/decentraname-backend/node modules/@jimp/core/dist/utils/image-bitmap
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```

```
at
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  at FSReqCallback.readFileAfterClose [as oncomplete]
(internal/fs/read_file_context.js:71:3) {
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(/home/sandip/decentraname-backend/node modules/@jimp/core/dist/index.js:431:32)
  at
/home/sandip/decentraname-backend/node_modules/@jimp/core/dist/index.js:373:15
  at FSReqCallback.readFileAfterClose [as oncomplete]
(internal/fs/read_file_context.js:71:3) {
 methodName: 'constructor'
[2022-04-19 12:15:42.504 +0000] ERROR (17310 on dweb-testnet): Failed to add image:;
{"imageid":"6eeb23a7-bc50-4d4b-a795-a4b40fbe47b6"}
[2022-04-19 12:15:42.507 +0000] DEBUG (17310 on dweb-testnet): Error encountered in
getting asset metadata: {"type":"Error","message":"Failed to add image","stack":"Error:
Failed to add image\n at Object.addImage
(/home/sandip/decentraname-backend/database/assets.js:61:15)\n at runMicrotasks
(<anonymous>)\n at processTicksAndRejections
(internal/process/task_queues.js:95:5)\n at async
/home/sandip/decentraname-backend/server.js:255:13"}
[2022-04-19 12:15:42.515 +0000] ERROR (17310 on dweb-testnet): Error encountered in
getting asset metadata: 'Failed to add image'
[2022-04-19 12:15:42.519 +0000] DEBUG (17310 on dweb-testnet): request errored
```

```
imageid: {
       bsonType: "string",
       description: "must be a string and is required"
     }
   }
 }
}
}
);
II
db.metadata.createIndex( { "tokenid": 1 }, { unique: true } );
db.createCollection( "image", {
 validator: {
   $jsonSchema: {
    required: [ "imageid", "image" ],
    properties: {
      imageid: {
       bsonType: "string",
       description: "must be a string and is required"
      },
      image: {
       bsonType: "binData",
       description: "must be a string and is required"
     }
   }
 }
}
);
db.image.createIndex( { "imageid": 1 }, { unique: true } );
db.createCollection( "hash", {
 validator: {
   $jsonSchema: {
    required: [ "hash", "name" ],
    properties: {
      hash: {
       bsonType: "string",
       description: "must be a string and is required"
```

```
},
     name: {
       bsonType: "string",
       description: "must be a string and is required"
     }
   }
}
);
db.createCollection( "nameIdMap", {
 validator: {
   $jsonSchema: {
    required: [ "id", "name" ],
    properties: {
     hash: {
       bsonType: "string",
       description: "must be a string and is required"
     },
     name: {
       bsonType: "string",
       description: "must be a string and is required"
     }
   }
 }
db.nameldMap.createIndex( { "id": 1 }, { unique: true } );
// Schema for the address and email form
db.createCollection( "profile", {
  validator: {
    $jsonSchema: {
       required: [ "address"],
       properties: {
         address: {
```