































-By Shanmuga Priya























## Privade 9 Enoupting Password

1) what are all the steps has to be done before sending data to DB when Signing up?

There are 2 steps involved before sending the signup data to DB \*) validating the input Data

\*) Enoughting the password.

2) How to Enought the Password?

- we can enought the password using "bought" library.

-) using buypt we can hash the password and also can validate npm i boupt the paisword.

-> we use "hash" function to hash the password. This has for returns a promise.

syntax log:

bought. hash ( password, salt)

- -) Salt is the random piece of data that gets added to the password to make it unbreakable and unique.
- -> Higher the No. of . Salt longer the time it takes, if it is less it is easy to break. So, the standard salt value is 10.
- -) Once the Password is encrypted we cannot decrypt it.
- -) we can store the hashed password in the DB.

eg: const buypt = nequire ("boypt") app. post ("/signup sayre new, res) => {

try & Walidating data validate Signup ( Heg/)

11 Encupting password

const & juist Name, last Name, email, Password & = reg. body

const Password Hash = await bouget. hash ( password, 10)

1 Storing the hashed password to DB. const user = new User ( {

juistName, lastName, email,

Password: Password Hash

3)

await User. savec)

Mes-send ("user added successfully")

3 catch (evon {

Hes. Hatus (400). send ("Exuror"+ exu. mersage) good of and it bearing all dead at mitang

3) How to compare the bashed password with the incoming password while logging is ?

> there is a for called "compare" which is used to compare the incoming parsword with the hashed password. It netwers which and unique a promise.

syntax! was to and an exercit bought, compare ( password, hashed Password)

eg: app. post ("/login", async (see, res) =) { +ry ? II validate incoming data

validate Login ( reg/)

11 get the document based on pass email Id from DB for password comparison

```
const & email, Password 3 = req. body

const user = await User. SindOne (& email: email 3)

g (! wer) &

throw new Exrer ("Invalid credentials")

3

Nempowing the Password

const "Password Valid = await bought. Compose (password, wer. password)

y ("Rassword Valid) &

res. send ("user logged in successfully")

g else &

throw new Exrer ("Password not correct")

y

3 catch (corr) &

res. status (400) send ("Exrer" + avi. message)

y

3)
```