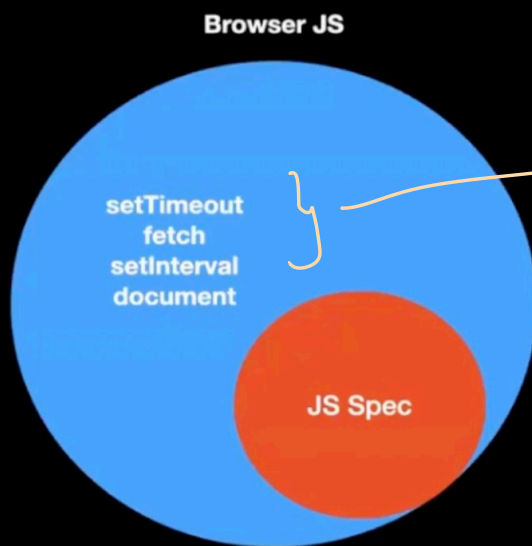


Week - 4

→ DOM intro :-

The DOM (Document Object Model) API is a programming interface for web documents. It represents the page so that programs can change the document structure, style, and content. The DOM represents the document as a tree of objects; each object represents a part of the page.

Js Code → Js Engine → 011010



⇒ React :- It helps to make DOM easy.

Virtual DOM → only update new data.

npm create vite@latest → 5173 post

main.jsx → root

app.jsx →

Jsx → JavaScript + html

⇒ MongoDB :-

user → http → DB

- Browser don't support talking with DB

⇒ Database Access is 2 way. you will either get full Access or no Access. No way of getting half-restricted access.

Firebase let http server and try their best to provide granola Access.

→ Any DB let you do → **CRUD** — delete.

create Read update

⇒ In mongoose, first you have to define the schema This sounds counter intuitive since mongodb is schemaless?

That is true, but mongoose makes you define schema for things like autocompletions/ Validating data before it goes in the DB to make sure you're doing things right Schemaless Dbs can be very dangerous, using schemas in mongo makes it slightly less Dangerous

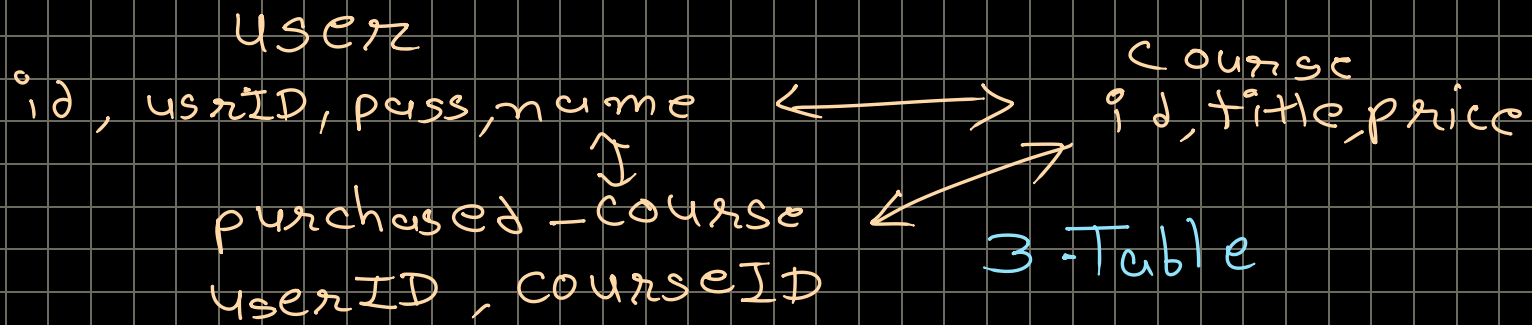
⇒ SQL is not friendly for storing complex objects.

Ex: $\text{id}: 123$

name : abc

course: ["A", "B"] ← This is advantage of noSQL DB

⇒ SQL for course selling



⇒ No SQL:

{

name: Abc,

pass: IDK,

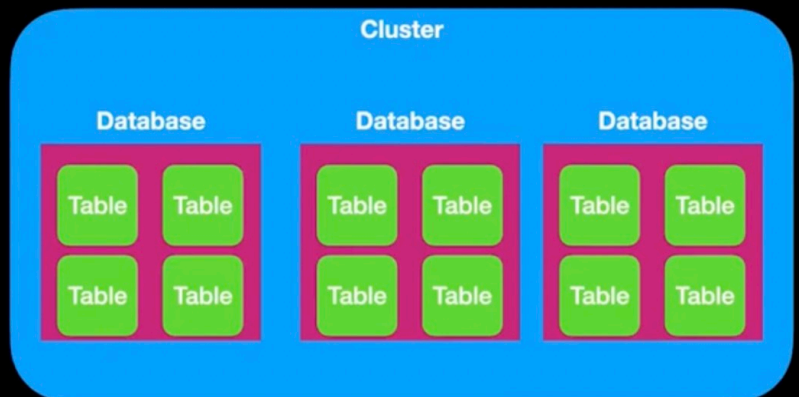
courses: ["Array", "Array"]

}

⇒ object ID = randomly generated unique

3 Jargons to know in Databases

1. Cluster
2. Database
3. Table



⇒ why we use JWT? - bearer.

→ to save db calls. JWT will store users so with token we can verify he is existing user or not.

→ Middleware Job:-

→ end req

→ forward req

→ pass data along to the next fun.