Page No.

Advanced Web Technology Assignment II

1) Prisma Orm

Prisma orm is a modern ORM (object Relational Mapper) that lets us define models in a citema. prisma file and use Is to interact with autobase.

We used Prisma with Mongo DB to define a Quote model and fetablada records easily. It auto-generates types and gives a clean API (prisma quete fordmany) etc) making database work simpler.

EXPRESS TS ISON API

Expressis a lightweight backend framework for Node: js. We used it to create a RESCAPT:

"GET pilquotes to fetch all quotes"

- Post (api/quotes to add recodata"

Express makes routing easy and supports middleware for tosts like logging, error handling and porcent Tron bodies.

3) Frontend fetch + HIML

be made a shiple index. himil page inside the

Osing fetch () API in JS, we sent a request to our Express backend and displayed the response (JSON) on the page.

const getQuotes: async()=> (

Const response: await fetch ('http://www.liocalhost:3030/

api/quotes);

quotes: await response; son();

tehan quotes;

U) Project forder Structure

I followed Monder structure!
auot (assignments) project 1/

-> proma /

-> public/

-> server,3

5) Mongo DB+ env Config

MongoDB is a NosQL dotabase that stores dotain JSON-like documents. Prisma supports it with minor changes we stored our database connection string in env to keep credential safe.

DARABASE URL: "mongodb+sev: (1."

This practice is used in projects to protect secrets.

6) Mongo DB Replica set for Prisma

Prisma needs Mongo DB to run in replica set mode

(even on localhost) to suppost transactions. I

modified the mongod confiltre this:
replication:

teplset Name: (5)

Then, I restarted Mongo DB and run:

mongosh

Drs. initiate ()

This made my Mongo DR Oct as a primary node in a replicacet. Only after this, prisma could connect and perform DB operations.

Non Neupone Roll: 31