The Moon Stack:

The MERN Stack is a popular full-Stack development francuore that enables developer to built robust, scalable but applications. It comprises four key technologie: MorgoDB, Expreso.js, React js & Node js. Each Technology play a specific role in Stack, collectively providing a comprehensive framework for both frontend & backend developments.

Mongo DB:

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Mongo DB is a nosql database that stores data in flexible, mongo DB is a nosql database that stores data in flexible, some like doluments. It is designed for scalability l performance, making it ideal for modern heb applications that require rapid development liberation.

(2) Express.js:Express.js is a neb capplication framework for node;s
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It provide ca robust set of features for web 2
To dile applications, including middle ware to handle
Will requests, rowing & dynamic rendering.

(3) React.js:
React.js is a javascript library for building use interface. Developed by facebook, it allowed developers to create large web applications that can update a render efficiently in response to data changes.

React components encapsulates their own state & logic, promoting reusability.

Nodejs is a javascript ountime built on chrome's Vol javascript engine. It allows developers to our javascript on somer side enabling the creating of scalable & egiment server-side applications.

Roles of Each Tech in MERN Stack:

Mongodo :Mongodo serves as the detabase component of Mern Stack. It stoses application data in a flexible, json like format, which allows for easily idata retrieval & manipulation.

2 Expres. is:

Express is acts as the new server framework for Mode: is simplifying the process of building robust API I handling 1111 squest. It manages routing, middleware I other backend logic.

3 React is:

Read is handles the frontend development by providing a ponerful library for building interactive I dynamic user interfaces.

Node is:

Node is provides the suntime environment for executing javascript code on the sover side. It enables the developers of fast I scaloble severside applications.

Setting up a MERN Stack Application:

Prerequesite:

-) node js & npm.

- mongo DB

-> A code editor

-) Setting up the Frontend:

npx create react-app client

upon install axion

-) Setting up the BackEnd:

medir men-app Cd mem-app npm init-y npm install express morgoose cors dolen v.

Start the application: