Assignment-7.5 (MERN Stack)

=) The MERN Stack-

The MERN Stack is a popular full-stack development pranework that enables developers to built ordows, scalable uses applications. It comprises four key technologies: Mango DB, Express is, React is 4 Mode is. Each technology play a specific orde in stack, collectively providing a comprehensive framework for both providend & backend development.

"MongoDB -

Mongolls is a mosql database that stores data in flexible, John bloo documents. It is designed for scalability & performance, making it ideal for modern web application that require making development & iteration.

JExpressy -

Expressis is a web application framework for nederly. It provides a robust set of features for web & mobile applications, including middleware to handle HTTP requests, routing & dynamic rendering.

3) React.y -

React. is is a javascript library for building user interfaces, Daveloped by Face book, it allowed developers to icreak large web applications that can supdate & newdor efficiently in nexponse to data changes. React components eneapsulate their own state & logic, promoting newsability.

=) Roles of Each Tech in MERN Stack -

MrongoDB -

Mongo BB sorves as the database component of MERN stack. It stores application data in a flexible, JSON like format, which allows for easily data retrieval & manipulation.

3) Expressize -

Express is acts as the web server framwork for Node. is, simplifying the process of building riobust API is handling HTTP request. It manages routing, middleware is other backend logic.

3) Reactijs-

Reactiff handles the frontered development by providing a powerful aborary for building interactive & dynamic user interfaces. It allows developors to create newsable UI components & manage the applications state efficiently, ensuring a smooth user experience.

4) Node-js.

Mode is provides the nurtine environment for executing javascript code on the surver side. It enables the development of fast & scalable server-side applications, allowing developers to use javascript thoroughput the entire development stack.

Setting up a MERN Stack Application -

proneguesite.

>node js & ripm >mongodB >A code editor

Setting up the Frontend
nex create react-app client

cd chert

nex install axios

-> Setting up the Backend -

mkdir men-app cd mon app npm init -y npm ristall express mongoose cons dotern

Start the application -

Now start