Assignment 05 Aim: Durlop a ensponsine i using Expuiss fran perform CRUD operat deploy with Node Mongo DB. Objective: i) Dulop a full st theory: D Role of Experess. js as a meb framework for Node. js i) Expense is a lightwight and
flexible web framework built
on top of Node is.

i) it simplifies the provess of
handling HTTP manuals, suspon and helps in fastir deulopmen of scalable web applications.

@ CRUD Operations in Web Application stops 1 Faperes the CRUD stands for beate, Read Update, Delde, which are the ix four basic operations of much persistent storage in at much application application about the iii) relate - Add new data to the iii) alabase Howk database

ii) Read - gutgive and display dative push

iii) update - Modify existing date on the

iv) Delde - Remove unmanted date & settin

thue operations allow the like application to interact dynamical guenn

uith usus and manye dateri) soufi

efficitively. 3 Why MongoDB is suitable i) Mongo DB is a NoSQL document oriented database that stores database the like format.

ii) it is schema-liss, making it easier to handle uniteristiered iii) MongoPB ecales well with large databeits integrates smortly Mongoose, and provides fast performance for CRUD operations which makes it ideal for full stack applications.

stops in Deploying a Node je an Expers Application 3 ie the is preparing the project by setting emiserment variables and production settings Using a hosting surviv Horoku , AMS of Render ii ay dat iv) push and install dependencies

date on the secure (npm install)

date y) setting up puocess managers

like PM2 to kup the app sunning amical date vi) configuring a summer peroxy (eg. Nginx) for evouting vii) Testing the deployed applical to ensure functionality.