

Assignment 5Aim:

Develop a responsive web design using express framework to perform CRUD operation and display with Node JS using MongoDB.

Objective:

- Develop a full-stack web application
- Demonstrate Backend Development and Deployment Proficiency.

Pro Theory:

Q) What is the role of express.js as a web framework for Node.js?

Express.js is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications. It simplifies the process of building web applications by providing layers of fundamental web providing a layer of fundamental web application features.

Q) Explain concept of CRUD operation in the context of a web application.

CRUD stands for Create, Read, Update and Delete. These four basic operations are the fundamental building blocks for interacting with data in a web application.

• Create: Adding new data to database.

• Read: Retrieving data from a database.

• Update: Modifying existing data in database.

• Delete: Removing data from database.

Q) Why is MongoDB a suitable choice for this project?

MongoDB is a suitable choice for this project because it is a NoSQL database that stores data in flexible JSON-like documents. This makes it a good fit for applications with evolving data schemas, as it does not require a rigid predefined structure (like a traditional relational) database.

Q) What steps are involved in deploying a Node.js and Express application?

Deploying a Node.js and Express application generally involves several key steps:

- Preparation
- Source Setup
- Dependency Installation
- Docker Management
- Reverse Proxy
- Domain and SSL

tips

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