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Pune Institute of Computer Technology
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Department of Information Technology

Class : TECIT

Subject : LP-II CWADL

Assignment No. : 3b

A.Y. : 2023-24

Date :

Title : API for CRUD operations

Problem Statement :

Create four APIs using Node.JS, ExpressJS and MongoDB for CRUD operations for Register User, Login User, Show User Data.

Objective :

Use NodeJS, Express, MongoDB and Mongoose libraries to create CRUD operations.

Theory :

API (Application Programming Interface) is a collection of communication protocols and subroutines used by various programs to communicate between them. A programmer can make use of various API tools to make their program easier and simpler.

A developer extensively uses APIs in their software to implement various features by using an API call without writing complex codes for the same.

CRUD is an acronym for Create, Read, Update and Delete. It is a set of operations we get servers to execute (POST, GET, PUT and DELETE requests respectively). This is what each operation does -

- Create (POST) - Make something
- Read (GET) - Get something
- Update (PUT) - Change something

- Delete (DELETE) - Remove something

Step 1 - Creating the Application

Create a new folder for the application. Initialize the application with a package.json file. Go to the root folder of your application and type `npm init` to initialize your app with a package.json file.

Step 2 - Install dependencies. Install `express`, `mongoose`, and `body-parser` modules. Setup the web server by creating a new file named `server.js` in the root folder of the application. with the following

Step 3 - Configuring and connecting to the database. Create a new folder `config` in the root folder of our application for keeping all the configurations. Create a new file `database.config.js` inside `config` folder.

Step 4 - Create Mongoose Model. Create a folder called `model` inside the `app` folder. Create a `user.js` file.

Step 5 - ~~Then~~ Create the Controller. Inside `app/controllers` folder, create `user.js` with the CRUD Functions.

Conclusion:

Thus, we have used `node JS`, `express`, `mongo DB` and `mongoose` libraries to create CRUD operations.

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