C-R-U-D & The 6-Rule Process

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Fundamental concept on how to create and understand CRUD in Node/Express web development.

Install these packages/libraries

Prior to installation of packages, you first need to install NodeJS https://nodejs.org/en

npm install express

npm install ejs

- EJS is a simple templating language that lets you generate HTML markup with plain JavaScript.
- To use:
 - o <% %>
 - \circ <%= %> to print the data

Create the "views" folder

Create "app.js"

your directory should look like this:

node_modules

views

- o index.ejs
- o add.ejs
- o edit.ejs

> app.js

- package-lock.json
- package.json

First, you should understand what are the 4 common HTTP methods:

- 1. GET Retrieve Data from the server
- 2. POST Send Data to the server
- 3. PUT Update existing resource
- 4. DELETE Remove a source from the server

CRUD – Create, Retrieve, Update, Delete

There *6-rule* CRUD process that should be followed:

1. Get or Render Page/Data (GET)

a. response render the view page and the data

2. Render Add Page (GET)

a. response render the view page

3. Create Add Function (POST)

- a. Create new object
- b. Use "push" method

4. Render Edit Page + ID (Uniform Resource Identifier) (GET)

- a. Convert the parameter from a string to integer
- b. Search the array of data
- c. Response renders the view page and the data

5. Create Edit Function (POST)

- a. Convert the parameter from a string to integer
- b. Locate the index of the item in the array
- c. Once index is found, request the body of the element so it will update

6. Create Delete Function (GET)

- a. Convert the parameter from a string to integer
- b. Locate the index of the item in the array
- c. Use "splice" method

Delete is "GET" due to the reason that the implemented process is not using Form, instead it uses "< a href = "delete/(id)" > " or link / href tag. Hence, it "gets' that particular link for it to delete the data, otherwise if Form is used, you can use Post.

We need to follow these 6 rules in creating a conventional CRUD application in web development, pertaining to NodeJS/Express.

Include this following code for server connection in *app.js*:

Using Forms

Action = is where you will indicate the parameter or function

Method = is where you will determine if you will use: GET, POST, PUT, DELETE

Key terms:

- Objects
- res.redirect(")
- res.render('')
- array.splice
- array.push
- req.body.name/name of the element

- req.params.id/name of the URI ID or :id
- app.get('/', (req,res) => { })
- app.post('/', (req,res) => { })