Latihan Mandiri Pendalaman NodeJS

Dalam latihan ini, akan dijelaskan proses membuat aplikasi Create, Read, Update dan Delete dengan menggunakan NodeJS.

1. Buat database dengan nama db_nodejs, kemudian buat table dengan perintah berikut:

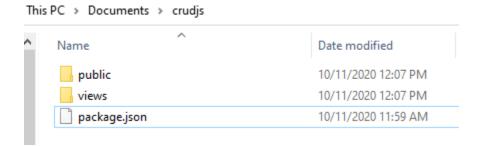
```
CREATE TABLE IF NOT EXISTS `product` (
  `product_id` int(11) NOT NULL AUTO_INCREMENT,
  `product_name` varchar(200) DEFAULT NULL,
  `product_price` int(11) DEFAULT NULL,
  PRIMARY KEY (`product_id`)
);
```

```
ariaDB [db_nodejs]> desc product;
Field
                Type
                                Null | Key | Default
                                NO
                                       PRI
                                                        auto increment
product_id
product_name
                 varchar(200)
                                YES
                                              NULL
product_price
                                YES
                                              NULL
rows in set (0.059 sec)
```

 Buat directory baru dengan perintah mkdir crudjs cd crudjs npm init

```
C:\WINDOWS\system32\cmd.exe
                                                                                                                                                             C:\Users\sugiartha\Documents>mkdir crudjs
 C:\Users\sugiartha\Documents>cd crudjs
 :\Users\sugiartha\Documents\crudjs>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
See `npm help init` for definitive documentation on these fields
and exactly what they do.
Use `npm install <pkg>` afterwards to install a package and save it as a dependency in the package.json file.
Press ^C at any time to quit.
package name: (crudjs)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
 About to write to C:\Users\sugiartha\Documents\crudjs\package.json:
  "name": "crudjs",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
"author": "",
"license": "ISC"
Is this OK? (yes) yes
 :\Users\sugiartha\Documents\crudjs>
```

3. Di dalam folder crudjs, buat 2 folder baru yaitu public dan views



4. Download bootstrap https://getbootstrap.com dan jquery https://jquery.com

Selanjutnya buat folder css dan folder js didalam folder public.

Kemudian copy file bootstrap.css yang telah di download sebelumnya kedalam folder public/css/.

Dan copy file bootstrap.js dan jquery pada folder public/js/.

```
CRUDJS
node_modules
public
css
bootstrap.css
bootstrap.css.map
js
JS bootstrap.js
JS bootstrap.js.map
JS jquery-3.5.1.js
jquery-3.5.1.min.map
```

5. Di dalam folder views buat 1 buah file dengan nama product_view.hbs

```
| Continue | Continue
```

```
<i-- Edit Product Modal-->

<form action="/update" method="post">

<idiv class="modal fade" id=EditModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel"

<pre>

<idiv class="modal-dialog" role="document">

<idiv class="modal-content">

<pre
```

```
| Standard | Standard
```

6. Buat 1 buah file js di dalam project crudjs dengan nama index.js

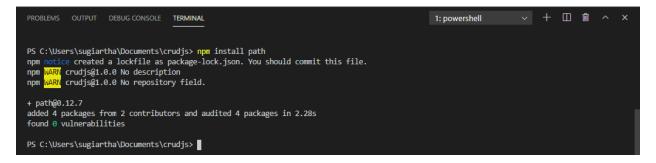
This PC > Documents > crudis

^	Name	Date modified	Туре	Size
	public	10/11/2020 12:20 PM	File folder	
	views	10/11/2020 12:07 PM	File folder	
	🏂 index.js	10/11/2020 10:55 AM	JavaScript File	2 KB
	package.json	10/11/2020 11:59 AM	JSON File	1 KB

Isi file dari index.js sebagai berikut:

```
app.post('/save',(req, res) => {
 let data = {product_name: req.body.product_name, product_price: req.body.product_price};
let sql = "INSERT INTO product SET ?";
 let query = conn.query(sql, data,(err, results) => {
  if(err) throw err;
res.redirect('/');
//route for update data
app.post('/update',(req, res) => {
let sql = "UPDATE product SET product_name='"+req.body.product_name+"', product_price='"+req.body.product_
let query = conn.query(sql, (err, results) => {
  if(err) throw err;
  res.redirect('/');
app.post('/delete',(req, res) => {
let sql = "DELETE FROM product WHERE product_id="+req.body.product_id+"";
 let query = conn.query(sql, (err, results) => {
  if(err) throw err;
    res.redirect('/');
```

7. Install modul path, express, hbs, body-parser dan mysql.
Cara installasi modul dengan perintah npm install <nama-modul>

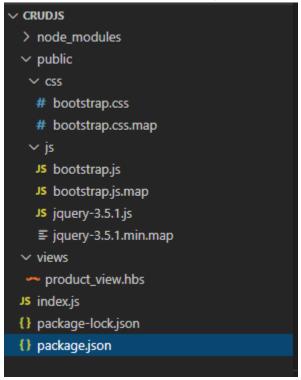


```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                       1: powershell

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PS C:\Users\sugiartha\Documents\crudjs> npm install express
    WARN crudjs@1.0.0 No description WARN crudjs@1.0.0 No repository field.
npm
+ express@4.17.1
found 0 vulnerabilities
PS C:\Users\sugiartha\Documents\crudjs> npm install hbs
       crudjs@1.0.0 No description
    WARN crudjs@1.0.0 No repository field.
+ hbs@4.1.1
found 0 vulnerabilities
crudjs@1.0.0 No description
       crudjs@1.0.0 No repository field.
npm
```

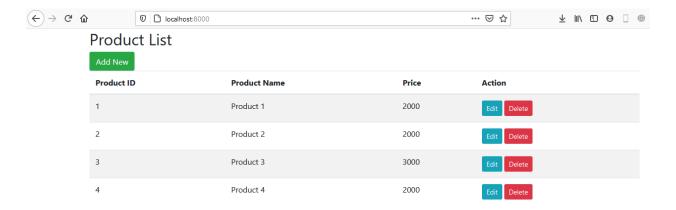
8. Jika semua modul telah di install, maka directory project akan tampil seperti berikut:



9. Jalankan index.js dengan perintah node index.js

```
PS C:\Users\sugiartha\Documents\crudjs> node index.js
Server is running at port 8000
Mysql Connected...
```

10. Buka browser dan ketik pada URL: http://localhost:8000



Source code: https://gitlab.com/sugiartha/latihan-crud-nodejs