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In this tutorial, I will share with you how to create a CRUD (Create Read Update Delete) application using node.js and mysql.

Not only that, I will also share how to use bootstrap modals for input and update form.

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So that the CRUD application will be responsive and user friendly.

atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js

i.com%2Fen%2Fblog%2Fnodejs-is:google.com Let"s get started. and%20MySQL%20https

620Create%20Simple%20CRUD%20application%20using%20Node.js H%2Fbl8g%2Fh8dejs-

and%20MySQL)

## Step #1. Introduction

This is important!

In this tutorial, you will learn how to create CRUD operations with node.js and mysql.

If you haven't known node is before, I recommend you to read the previous post about: Node.js tutorial for beginners (http://mfikri.com/en/blog /nodejs-tutorial).



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In this tutorial I will use Bootstrap and Jquery.

If you don't have bootstrap and jquery, please download it on the official website **getbootstrap.com** (http://getbootstrap.com/) and **jquery.com** (http://jquery.com/).

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and%20MySQL%20https

20Create a new datekos 20appidation zousing zonose jamed crud\_db. %2FBl8g%2FH88Ejs=

and%20MySQL)

If you create it with the same name it's better.

To create a database in MySQL, it can be done by executing the following query:

CREATE DATABASE crud db:

The SQL command above will create a database with the name **crud db**.

Next, create a table in the **crud db** database.

Here I create a table named "product".



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If you create it with the same name it's better.

To create a **"product"** table, it can be done by executing the SQL command below:

```
CREATE TABLE product(
product_id INT(11) PRIMARY KEY AUTO_INCREMENT,
product_name VARCHAR(200),
product_price INT(11)
)ENGINE=INNODB;
The recommendation of the content of
```

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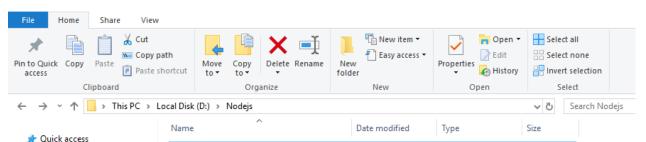
<u>ардж20муsQu%200hupst\_</u>id, product\_name, and product\_price.

```
eps%20te%20Greate%20Simple%20CRUD%20application%20using%20Node.js
LEGHH%2FEH%2FBl0g%2FH8dejs-
Express
and%20MySQL)
```

## Step #3. Install Dependencies

Before installing dependencies, please create a folder, here I create a folder and I named **crud**.

like the picture below:





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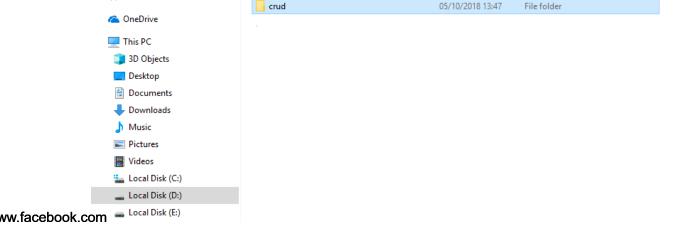


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#### iney.≂b#ps

atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js i.com%2Fen%**2Fhlog%2Fdoteis**ler is our project folder in this tutorial. is:google.com

andi%20MySQL%20https

ps%20te%20Greate%20Simple%20CRUD%20application%20using%20Node.js 68H%2FeH%2Fblog%2FH8dejs-UC xpress

and%20MySQL)

In this tutorial, we need 4 dependencies below:

- 1. Express (http://expressjs.com/) (node.js framework)
- 2. MySQL (mysql driver for node.js)
- 3. Body-parser (https://www.npmjs.com/package/body-parser)
  (middleware for handling post body request)
- 4. Handlebars (https://www.npmjs.com/package/handlebars)
  (template engine)



(https://youtu.be/OJU0L9D-Zdo)

Login Multi User with Node JS, Express, MySQL, and React JS (https://youtu.be/OJU0L9D-Zdo)



(https://youtu.be/Gv\_A7jHsMmk)

How to Create Infinite Scroll with Node JS, Express, React JS, MySQL (Full Stack) (https://youtu.be /Gv\_A7jHsMmk)



(https://youtu.be/XkRkUSkEgxl)

Search & Pagination with Node, Express, React, MySQL (Best

To install dependencies on node is can be done easily using "NPM" (Node Package Manager).

You can run NPM in "Terminal" or "Command Prompt".

But, in this tutorial I don't use Command Prompt, instead I use Git Bash ww.facebook.coherminal.

#### nêy≅b#ps

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<u>aηď%</u>ᢓŐMySQL%20https

You can download Git Bash in the url below: Greate%385ingle%20CRUD%20application%20using%20Node.js 1%2FB188%2FH88E18=

and%20MySQL)
https://git-scm.com/downloads (https://git-scm.com/downloads)

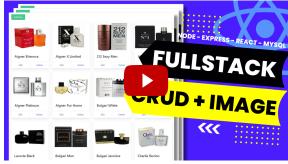
Download it according to your platform, then install it on your computer.

If you have installed "Git Bash", please open the **crud** folder that was created before.

Then right-click and select **Git Bash Here**, like picture below:

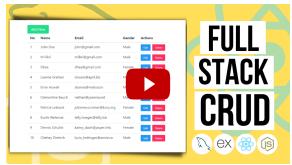
📑 🖟 🖟 crud New item ▼ Paste shortcut

Practice) (https://youtu.be /XkRkUSkEgxI)



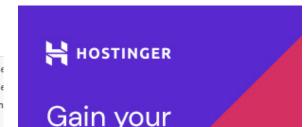
(https://youtu.be/jPjPGAQOMac)

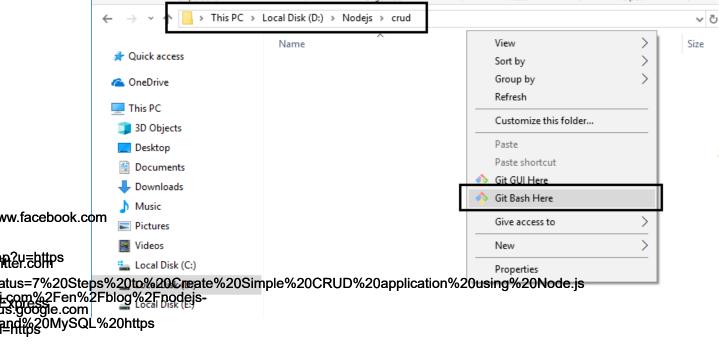
**CRUD + Image tutorial with Node JS,** Express, React JS, and MYSQL (MERN STACK) (https://youtu.be /iPiPGAQOMac)



(https://youtu.be/es9\_6RFR7wk)

FULL CRUD tutorial with Node JS, Express, React JS and MySQL (Full Stack) (https://youtu.be/es9 6RFR7wk)

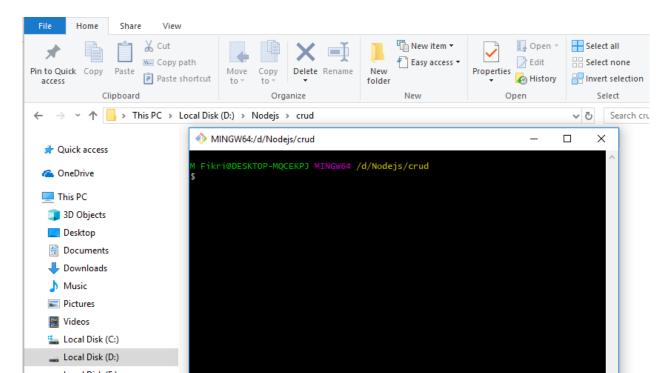




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n?y≂b#ps

and%20MySQL) hen will appear the git bash terminal like the picture below:





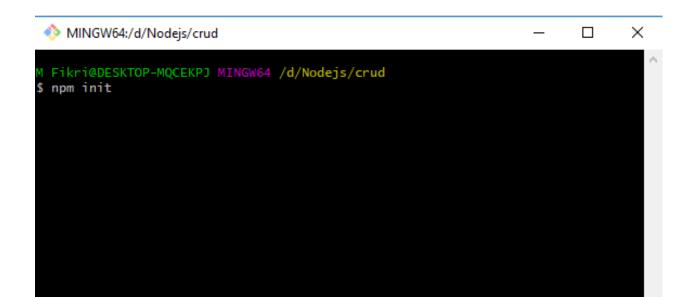
(https://www.hostg.xyz/SH96M)

```
Network
```

In the terminal above, you can install all the dependencies that you need for your project.

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Before installing dependencies, we need to create package.json file to our
Before installing dependencies, we need to create package.json file to our
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Before installing dependencies, we need to create package.json file to our
Before installing dependencies, we need to create package.json file to our
Before installing dependencies, we need to create package.json file to our
Before installing dependencies package.json

Like the picture below:



The above command will automatically create a package json file on your ww.facebook.com project.

n?y.≂bttps

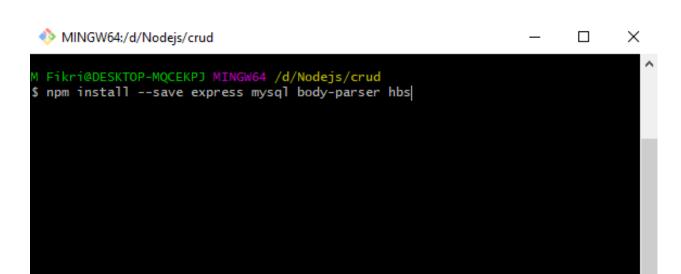
atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js i.com%2Fen%2Fbleg%2Phodejs-is:google.com and%20MySQL%20https

eps%20te%20tre###%20sthreie%20cmute%20iemitembry%20useg%20yvdyejing the following LEBHH%2FEH%2FBBg%2FH88Ejs-Express

and%20MySQIGommand in the terminal:

npm install --save express mysql body-parser hbs

Like the picture below:



ww.facebook.comhe above command will install all the dependencies that you need: express, mysql, body-parser, and handlebars. nêy≅b#ps atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js i.com%2Fen%2Fblog%2Fnodejs-is:google.com and;%20MySQII%20uttospen the package.json file, it will look like this: eps%20te%20Create%20Simple%20CRUD%20application%20using%20Node.js LEGHH%2FEH%2FBBBW2FH8dejs-Express and%20MySQL) "name": "crud", "version": "1.0.0", "description": "Crud Node.js", "main": "index.js", "scripts": { "test": "echo "Error: no test specified" && exit 1" "author": "M Fikri", 10 "license": "ISC", 11 "dependencies": { 12 "body-parser": "^1.18.3", 13 "express": "^4.16.3", 14 "hbs": "^4.0.1", 15 "mysql": "^2.16.0" 16

**Step #4. Project Structure** 

17

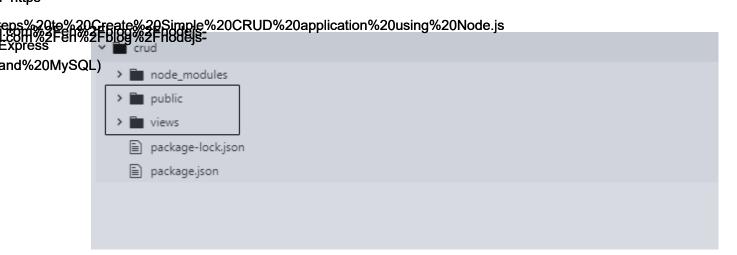
Open the crud folder using text editor, here I use ATOM (https://atom.io/) as my text editor.

You can use **Sublime Text** (http://www.sublimetext.com/), **Intellij IDEA** (https://www.jetbrains.com/idea/), or any other editors.

ww.facebook.comen create a new folder in the crud folder. Here I create two folders,

**public** and **views** folder. n?y.≂bttps

atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js icom%2Fen%2Fblog%2Fnodejs-is google.com and%20MySQLwl29nths picture below:

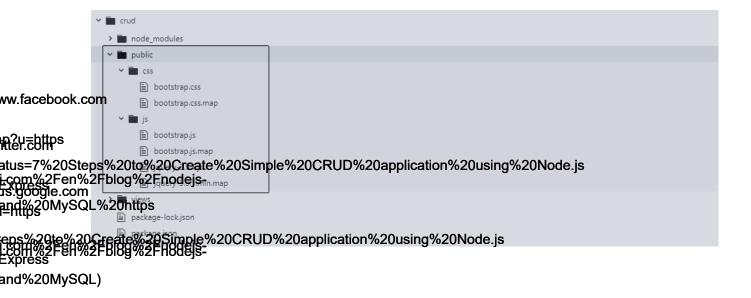


After that create **css** and **js** folder inside the **public** folder.

Then copy the **bootstrap.css** file that was previously downloaded into the public/css/ folder.

And copy the bootstrap.js and jquery files in the **public/js/** folder.

So that our project structure looks like the picture below:



# Step #5. Index.js

Create a file named **index.js**. like the picture below:



And then open **index.js** and type the code below:

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eps%20te%20Create%20Simple%20CRUD%20application%20using%20Node.js LEGHH%2FEH%2FBl0g%2FH6dejs-Express

and%20MySQL)

```
1
                   //use path module
               2
                   const path = require('path');
                   //use express module
                    const express = require('express');
                   //use hbs view engine
                   const hbs = require('hbs');
                   //use bodyParser middleware
                    const bodyParser = require('body-parser');
                   //use mysql database
              10
                   const mysql = require('mysql');
              11
                    const app = express();
              12
              13
                   //Create connection
              14
ww.facebook.com<sub>15</sub>
                    const conn = mysql.createConnection({
                      host: 'localhost',
              16
                      user: 'root',
              17
n?u≅b#ps
                      password: '',
              18
atus=7%20Steps%20to%20Cretate%20Simple%20CRUD%20application%20using%20Node.js
icom%2Fen%2Fblog%2Fnodejs-
is:google.com
and South 122 https://connect to database
              23 conn.connect((err) =>{
eps%20te%20Create%20Simple%20CRUD%20application%20using%20Node.js
LEOHH%2FEH%2FBB9%2FHOHESTe.log('Mysql Connected...');
                   });
and%20MySQL) <sup>26</sup>
                   //set views file
              28
                   app.set('views',path.join(__dirname,'views'));
              29
                   //set view engine
              30
                   app.set('view engine', 'hbs');
              31
                    app.use(bodyParser.json());
              32
                    app.use(bodyParser.urlencoded({ extended: false }));
              33
                    //set public folder as static folder for static file
              34
                   app.use('/assets',express.static(__dirname + '/public'));
              35
              36
                   //route for homepage
              37
                   app.get('/',(req, res) => {
              38
                     let sql = "SELECT * FROM product";
              39
                      let query = conn.query(sql, (err, results) => {
              40
                        if(err) throw err;
              41
                        res.render('product_view',{
              42
                          results: results
              43
                        });
                     });
              45
                   });
              46
              47
                   //route for insert data
              48
                    app.post('/save',(req, res) => {
              49
                     let data = {product name: req.body.product name, product price: req.body.
              50
                      let sql = "INSERT INTO product SET ?";
              51
                      let guery = conn.guery(sql, data.(err, results) => {
```

```
52
                          if(err) throw err;
               53
                          res.redirect('/');
               54
                       });
               55
                     });
               56
               57
                     //route for update data
               58
                     app.post('/update',(req, res) => {
               59
                       let sql = "UPDATE product SET product_name='"+req.body.product_name+"', r
                       let query = conn.query(sql, (err, results) => {
               60
               61
                          if(err) throw err;
                          res.redirect('/');
               62
               63
                       });
                     });
               64
ww.facebook.com<sub>66</sub>
                     //route for delete data
                     app.post('/delete',(req, res) => {
               68
                       let sql = "DELETE FROM product WHERE product_id="+req.body.product_id+"";
n?u≅b#ps
                       let query = conn.query(sql, (err, results) => {
atus=7%20Steps%20to%20Greate%20Simple%2QCRUD%20application%20úsing%20Node.js
icom%2Fen%2Fblog%2Fnodelses.redirect('/');
is:google.com
and%20MySQL%20https});
         74 | %20 Simple %20 SHIP% 20 application %20 using %20 Node.js 8H%2F BB %2F HOURS - app. Listen (8000, () => {
and%20MySQL) <sup>77</sup>
78
                       console.log('Server is running at port 8000');
```

# Step #6. View

Create a file named **product\_view.hbs** in the views folder. Like the following picture:





And then open **product\_view.hbs** and type the following code:

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n?v.≅bttps

atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js i.com%2Fen%2Fblog%2Fnodejs-is.google.com and%20MySQL%20https

eps%20te%20Create%20Simple%20CRUD%20application%20using%20Node.js LCOHH%2FEH%2FBl0g%2FH8dejs-Express

and%20MySQL)

```
1
                  <html lang="en">
              2
                   <head>
              3
                      <meta charset="utf-8">
              4
                      <title>CRUD Node.js and Mysql</title>
              5
                    <link href="/assets/css/bootstrap.css" rel="stylesheet" type="text/css",</pre>
                   </head>
              7
                   <body>
                    <div class="container">
              9
                      <h2>Product List</h2>
              10
                          <button class="btn btn-success" data-toggle="modal" data-target="#</pre>
              11
                      12
                        <thead>
              13
                          14
ww.facebook.com
                            Product ID
              15
                            Product Name
              16
                            Price
              17
na?u≅b#ps
                            Action
              18
atus=7%20Steps%<u>2</u>0tb%20Create%20Simple%20CRUD%20application%20using%20Node.js
com %2Fen %2Fb fog %2Fnode is / thead>
ts:ˈgˈʊʊgle.com
                        <u>aηď%2</u>ŎMySQL%2Ώἡttps
                           {{#each results}}
                          Simple%20GRUD%20application%20using%20Node.js
                            {{ product name }}
                            {{ product price }}
              26
and%20MySQL)
                            <a href="javascript:void(0);" class="btn btn-sm btn-info edit"</pre>
              28
                              <a href="javascript:void(0);" class="btn btn-sm btn-danger del</pre>
              29
                            30
                          31
              32
                          {{/each}}
             33
                        34
                    </div>
              35
              36
                      <!-- Modal Add Product-->
              37
                        <form action="/save" method="post">
              38
                          <div class="modal fade" id="myModalAdd" tabindex="-1" role="dialog</pre>
              39
                           <div class="modal-dialog" role="document">
              40
                             <div class="modal-content">
              41
                               <div class="modal-header">
              42
                                 <h5 class="modal-title" id="exampleModalLabel">Add New Proc
              43
                                 <button type="button" class="close" data-dismiss="modal" ar</pre>
              44
                                   <span aria-hidden="true">&times;</span>
              45
                                 </button>
              46
                               </div>
              47
                               <div class="modal-body">
              48
                                 <div class="form-group">
              49
                                     <input type="text" name="product_name" class="form-cont</pre>
             50
                                 </div>
              51
```

```
52
                                     <div class="form-group">
               53
                                         <input type="text" name="product price" class="form-cor</pre>
               54
                                     </div>
               55
                                   </div>
               56
                                   <div class="modal-footer">
               57
                                     <button type="button" class="btn btn-secondary" data-dismis</pre>
               58
                                     <button type="submit" class="btn btn-primary">Save</button>
               59
                                   </div>
               60
                                 </div>
               61
                              </div>
               62
                             </div>
               63
                          </form>
               64
               65
                          <!-- Modal Update Product-->
ww.facebook.com
               66
                        <form action="/update" method="post">
               67
                            <div class="modal fade" id="EditModal" tabindex="-1" role="dialog"</pre>
               68
                             <div class="modal-dialog" role="document">
#RéY≅B#ps
                                <div class="modal-content">
atus=7%20Steps%20tb%20Create%20Simple%20GRUD%20application%20using%20Node.js
  m%2Fen%2Fblog%2Fnodejs-
                                    <h5 class="modal-title" id="exampleModalLabel">Edit Product
ts:ˈgˈʊʊgle.com
                                    <button type="button" class="close" data-dismiss="modal" ari</pre>
<u>апqॅ%2</u>ॅ0МуSQL%2́0੍ਰт́tфрs
                                      <span aria-hidden="true">&times;</span>
                      Simple %20CRVID %20application %20using %20Node.js
                                  <div class="modal-body">
               77
                                    <div class="form-group">
and%20MySQL)
               78
                                        <input type="text" name="product name" class="form-contr</pre>
               79
                                    </div>
               80
               81
                                    <div class="form-group">
               82
                                        <input type="text" name="product price" class="form-cont</pre>
               83
                                    </div>
               84
                                  </div>
               85
                                  <div class="modal-footer">
               86
                                    <input type="hidden" name="id" class="product id">
               87
                                    <button type="button" class="btn btn-secondary" data-dismiss</pre>
                                    <button type="submit" class="btn btn-primary">Update</buttor</pre>
               88
               89
                                  </div>
               90
                                </div>
               91
                             </div>
               92
                            </div>
               93
                       </form>
               94
               95
                          <!-- Modal Delete Product-->
               96
                           <form id="add-row-form" action="/delete" method="post">
               97
                              <div class="modal fade" id="DeleteModal" tabindex="-1" role="dial</pre>
               98
                                  <div class="modal-dialog">
               99
                                     <div class="modal-content">
              100
                                          <div class="modal-header">
              101
                                                                <h5 class="modal-title" id="myModa</pre>
              102
                                             <button type="button" class="close" data-dismiss="mc</pre>
```

```
103
                                        </div>
             104
                                        <div class="modal-body">
             105
                                                                       <strong>Are you sure to a
             106
                                        </div>
             107
                                        <div class="modal-footer">
             108
                                                                  <input type="hidden" name="pro</pre>
             109
                                             <button type="button" class="btn btn-default" data</pre>
                                             <button type="submit" class="btn btn-success">Dele
             110
             111
                                        </div>
             112
                                         </div>
             113
                                </div>
                             </div>
             114
                         </form>
             115
             116
ww.facebook.com<sub>117</sub>
                    <script src="/assets/js/jquery-3.3.1.js"></script>
             118
                    <script src="/assets/js/bootstrap.js"></script>
             119
                    <script>
             120
                        $(document).ready(function(){
atus=7%20Steps<u>%2</u>0tb%20Create%20Şiriple%26CRUD%20application%20using%26Modebjse').on('click','.e
    var product_name = $(this).data('product_name');
and%20MySQL%20https
                            var product price = $(this).data('product_price');
                           $('#EditModal').modal('show');
%20CBU0%20appHieation%20Hsing%20Nadejs
                            $('.price').val(product_price);
                            $('.product id').val(product id);
and%20MySQL) <sup>128</sup>
                          });
             130
                                //showing delete record modal
             131
                                $('#mytable').on('click','.delete',function(){
             132
                            var product_id = $(this).data('id');
             133
                            $('#DeleteModal').modal('show');
                            $('.product_id2').val(product id);
             134
             135
                          });
             136
             137
                        });
             138
                    </script>
             139
                    </body>
             140
                    </html>
```

# Step #7. Testing

Test the application to make sure the crud application that we create runs

well.

To run the application, type the following command on the terminal.

1 node index

Then it will appear on the console message "Server is running at port 8000"

ww.facebook.com and "Mysql Connected".

```
n?y.≂bttps
```

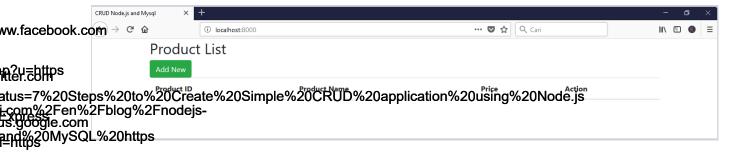
```
atus=7%20Steps%20to%20Create%20Simple%20CRUD%20application%20using%20Node.js
i-com%2Fen%2Fblog%2Fhodejs-
us.google.com
and%20MySQL%20https
```

```
ens% 20te% 20 Greate % 20 Simple % 20 CRUD % 20 application % 20 using % 20 Node is EXPRESS And % 20 MySQI $ node index Server is running at port 8000 Mysql Connected...
```

Then open your browser and type the following URL:

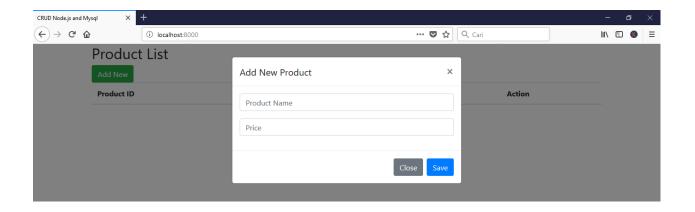
http://localhost:8000/ (http://localhost:8000/)

If running well, then it will look like the following picture:



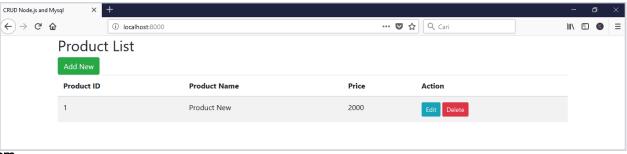
eps%20te%20Create%20Simple%20CRUD%20application%20using%20Node.js LCBHH%2FEH%2FBI89%2FH8dEJS-Express

like the picture below:



Then Input Product Name and Price then click **Save** button.

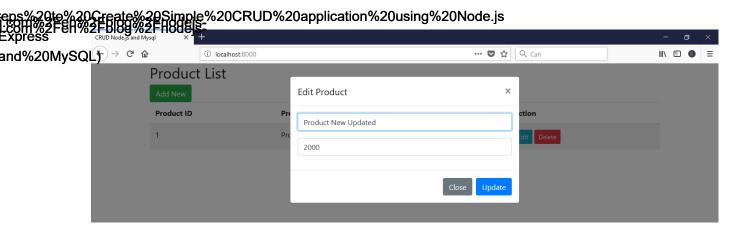
Then you can see the results like the picture below:



ww.facebook.com

### n?y.≂bttps

atus=7%20Steps%20to%20Greate%20Simple%20CRUD%20application%20Nping%20Node is "Edit Product" icom%2Fen%2Fblog%2Fnodejs-is:google.com and%20MySQlr%20ttpsike the picture below:



Edit the data you want to edit, then click the **Update** button.

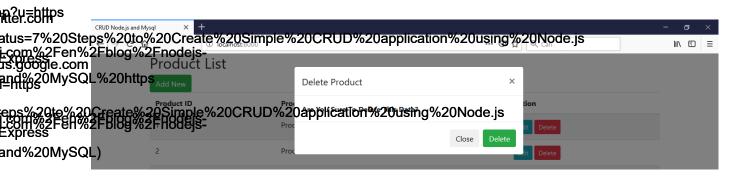
Then you can see the results like the picture below:





To delete a record, click the **Delete** button, then will appear the

ww.facebook.comonfirmation modal as follows:



Then click the **Delete** button to delete the record.

Done.

### Conclusion:

Today's tutorial is about how to build a CRUD application (Create Read

Update Delete) using node.js and mysql.

In this tutorial, you have learned how to make CRUD applications with node.js and mysql.

Not only that, you have also learned how to use bootstrap modals for input ww.facebook.comd update forms.

nêy≅b#ps

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icom%2Fen%2Fblog%2Fnodejs-us google.com and%20MySQL%20https

20Greate%20Simple%20CRUD%20application%20using%20Node.js

THE OF THE SOURCE CODE (HTTPS://PASSIONEAGLE.COM/DL/OQ)

and%20MySQL)



Whats App (whatsapp://send?text=https%3A%2F%2Fmfikri.com%2Fen%2Fblog%2Fnodejs-

Learn%20how%20to%20create%20a%20simple%20CRUD%20application%20using%20node.js %2C%20express%2C%20bootstrap%2C%20and%20mysql%20step%20by%20step...)

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(https://youtu.be