

# Node.js + MongoDB

## Task : Online Store

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# Basic Steps

1. Display all databases

`show dbs`

2. Create or access a database in mongodb

`use onlinestore`

# Basic Steps

## 3. Display current database name

To display current database name type `db`.

## 4. Display collections in a database

`show tables` or `show collections` command lists collections in a database.

## 5. Dropping a database in mongoDB

`dropDatabase()` command is used to drop a database. `db.dropDatabase()`

## 6. Create a collection in mongodb

In **onlinestore** database, we need to create a products collection.

```
db.createCollection("products")
```

```
{ "ok" : 1 }
```

# Basic Steps

## 7. Insert document in mongodb collection

Data can be inserted into a collection using insert or save methods. If you are inserting data into a collection that does not exist it is automatically created. You can specify any number of columns of different data types in a collection.

```
db.products.insert({'product_name': 'Google nexus', 'price': '$500',  
'category' : 'Mobile Phone'})
```

## 8. Dropping a collection

In order to drop a collection we can use drop method.

```
db.products.drop()  
true
```

## 9. Datatype support in mongoDB

MongoDB supports string, integer, boolean, double, array, object, timestamp, null, objectId and other data types.

# Basic Steps

## 10. Insert array of documents into a collection

You can insert array of documents in to a mongodb collection as follows.

```
db.products.insert([  
  { "product_name" : "Apple iPhone 6", "price" : "$630", "category" : "Mobile Phone" },  
  { "product_name" : "Sony Vio", "price" : "$1200", "category" : "Laptop" },  
  { "product_name" : "Samsung T.V", "price" : "$900", "category" : "Electronics" },  
  { "product_name" : "Apple IPAD", "price" : "$400", "category" : "Tablet" },  
  { "product_name" : "MacBook Pro", "price" : "$800", "category" : "Laptop" }  
])
```

# Install Express Generator

## **Install Generator**

```
npm install express-generator -g
```

## **Set template engine to EJS**

```
express --view=ejs onlinestore
```

## **Now got to inside "onlinesotre" directory**

## **Install dependencies**

```
npm install
```

**To access mongoDB with NodeJS you need to install MongoDB driver.**

```
npm install mongodb - -save
```

# Index.ejs

## NodeJs MongoDB example - View Insert, Update, Delete records

<div><input type="text" value="Product Name"/></div> <div><input type="text" value="Price"/></div> <div><input type="text" value="Category"/></div> <div><input type="button" value="Add Product"/></div>				
ID	Product Name	Price	Category	Action
589a18039341bf7e6dad5f76	Google nexus	\$400	Mobile Phone	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f77	Apple iPhone 6	\$630	Mobile Phone	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f78	Sony Vio	\$1200	Laptop	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f79	Samsung T.V	\$900	Electronics	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7a	Apple IPAD	\$400	Tablet	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7b	MacBook Pro	\$800	Laptop	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7c	Dell Laptop	\$620	Laptop	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7d	Canon EOS 700D DSLR Camera	\$400	Camera	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7e	Nikon D7100 DSLR Camera	\$440	Camera	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f7f	Nokia Lumia 930	\$150	Mobile Phone	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f80	HTC Phone	\$200	Mobile Phone	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f81	LG Monitor	\$500	Electronics	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f82	Samsung Printer	\$320	Electronics	<a href="#">Edit</a> <a href="#">Delete</a>
589a18039341bf7e6dad5f83	Samsung Gear Live Black - Made for Android	\$250	Electronics	<a href="#">Edit</a> <a href="#">Delete</a>

# Running the application

To run this application, open command line, go to your project directory and type:

```
DEBUG= onlinestore:* npm start
```

OR

Go to inside onlinestore director and then command  
npm start

OR

```
SET DEBUG= onlinestore:* npm start
```

OR

Open browser and type URL:

<http://localhost:3000>