





Home Trending About Blog

Technologies > Web Development

Creating RESTful APIs with NodeJS and MongoDB Tutorial (Part II)



Welcome to this tutorial about RESTful API using Node.js (Express.js) and MongoDB (mongoose)! We are going to learn how to install and use each component individually and then proceed to create a RESTful API.

MEAN Stack tutorial series:

- 2. Creating RESTful APIs with NodeJS and MongoDB Tutorial (Part II) **you are here**
- 3. MEAN Stack Tutorial: MongoDB, ExpressJS, AngularJS and NodeJS (Part III)

1. What is a RESTful API?

REST stands for Representational State Transfer. It is an architecture that allows client-server communication through a uniform interface. REST is stateless, cachable and has property called idempotence. It means that the side effect of identical requests have the same side-effect as a single request.

HTTP RESTful API's are compose of:

- HTTP methods, e.g. GET, PUT, DELETE, PATCH, POST, ...
- Base URI, e.g. http://adrianmejia.com
- URL path, e.g. /blog/2014/10/01/creating-a-restful-api-tutorial-with-nodejs-and-mongodb/
- Media type, e.g. html, JSON, XML, Microformats, Atom, Images...

Here is a summary what we want to implement:

Resource (URI)	POST (create)	GET (read)	PUT (update)	DELETE (destroy)
/todos	create new task	list tasks	N/A (update all)	N/A (destroy all)
/todos/1	error	show task ID 1	update task ID 1	destroy task ID 1

NOTE for this tutorial:

- Format will be JSON.
- Bulk updates and bulk destroys are not safe, so we will not be implementing those.

 CRUD functionality: POST == CREATE, GET == READ, PUT == UPDATE, DELETE == DELETE.

2. Installing the MEAN Stack Backend

In this section, we are going to install the backend components of the MEAN stack: MongoDB, NodeJS and ExpressJS. If you already are familiar with them, then jump to wiring the stack. Otherwise, enjoy the ride!

2.1 Installing MongoDB

MongoDB is a document-oriented NoSQL database (Big Data ready). It stores data in JSON-like format and allows users to perform SQL-like queries against it.

You can install MongoDB following the instructions here.

If you have a **Mac** and brew it's just:

brew install mongodb && mongod

In **Ubuntu**:

sudo apt-get -y install mongodb

After you have them installed, check version as follows:

- 1 # Mac
- 2 mongod --version

```
5
6 # Ubuntu
7 mongod --version
8 # => db version v2.0.4, pdfile version 4.5
9 # => Wed Oct 1 23:06:54 git version: nogitversion
```

2.2 Installing NodeJS

The Node official definition is:

Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world.

Node.js Website nodejs.org

In short, NodeJS allows you to run Javascript outside the browser, in this case, on the web server. NPM allows you to install/publish node packages with ease.

To install it, you can go to the NodeJS Website.

Since Node versions changes very often. You can use the <u>NVM</u> (Node Version Manager) on **Ubuntu** and Mac with:

```
# download NPM
curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.31.4/ir

# load NPM
export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && . "$NVM_DIR/nvm.sh" # This loads nvm

# Install latest stable version
nvm install stable
```

Check out https://github.com/creationiv/nym.for.more.details

Also, on **Mac** and brew you can do:

```
brew install nodejs
```

After you got it installed, check node version and npm (node package manager) version:

```
1  node -v
2  # => v6.2.2
3
4  npm -v
5  # => 3.9.5
```

2.3 Installing ExpressJS

ExpressJS is a web application framework that runs on NodeJS. It allows you to build web applications and API endpoints. (more details on this later).

We are going to create a project folder first, and then add express as a dependency. Let's use <u>NPM</u> init command to get us started.

```
# create project folder
mkdir todo-app

# move to the folder and initialize the project
cd todo-app
npm init . # press enter multiple times to accept all defaults

# install express v4.14 and save it as dependency
npm install express@4.14 --save
```

Notice that after the last command, express should be added to package.json with the version 4.14.x.

3. Using MongoDB with Mongoose

Mongoose is an <u>NPM</u> package that allows you to interact with MongoDB. You can install it as follows:

```
1 npm install mongoose@4.5.8 --save
```

If you followed the previous steps, you should have all you need to complete this tutorial. We are going to build an API that allow users to CRUD (Create-Read-Update-Delete) Todo tasks from database.

3.1 Mongoose CRUD

CRUD == Create-Read-Update-Delete

We are going to create, read, update and delete data from MongoDB using Mongoose/Node. First, you need to have mongodb up and running:

```
1 # run mongo daemon
```

2 mongod

Keep mongo running in a terminal window and while in the folder todoApp type node to enter the node CLI. Then:

```
// Load mongoose package
var mongoose = require('mongoose');

// Connect to MongoDB and create/use database called todoAppTest
mongoose.connect('mongodb://localhost/todoAppTest');

SHARES
```

```
var TodoSchema = new mongoose.Schema({
    name: String,
    completed: Boolean,
    note: String,
    updated_at: { type: Date, default: Date.now },
});

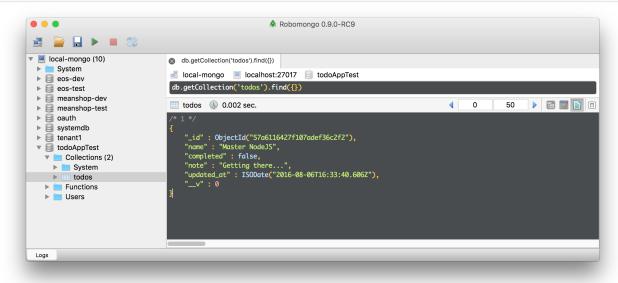
// Create a model based on the schema
var Todo = mongoose.model('Todo', TodoSchema);
```

Great! Now, let's test that we can save and edit data.

3.2 Mongoose Create

```
1
2
    // Create a todo in memory
   var todo = new Todo({name: 'Master NodeJS', completed: false, note:
3
4
5
    // Save it to database
   todo.save(function(err){
7
      if(err)
8
        console.log(err);
      else
9
        console.log(todo);
10
    });
11
```

If you take a look to Mongo you will notice that we just created an entry. You can easily visualize data using Robomongo:



You can also build the object and save it in one step using create:

```
1 Todo.create({name: 'Create something with Mongoose', completed: true
2  if(err) console.log(err);
3  else console.log(todo);
4 });
```

3.3 Mongoose Read and Query

So far we have been able to save data, now we are going explore how to query the information. There are multiple options for reading/querying data:

- Model.find(conditions, [fields], [options], [callback])
- Model.findByld(id, [fields], [options], [callback])
- Model.findOne(conditions, [fields], [options], [callback])

Some examples:

```
Find all

1 // Find all data in the Todo collection

2 Todo.find(function (err, todos) {

SHARES
```

```
5 });
```

The result is something like this:

```
results
    [ { _id: 57a6116427f107adef36c2f2,
 2
        name: 'Master NodeJS',
        completed: false,
 3
        note: 'Getting there...',
 4
 5
        __v: 0,
        updated_at: 2016-08-06T16:33:40.606Z },
 6
 7
      { _id: 57a6142127f107adef36c2f3,
        name: 'Create something with Mongoose',
        completed: true,
        note: 'this is one',
10
        __v: 0,
11
        updated at: 2016-08-06T16:45:21.143Z } ]
12
```

You can also add queries

Find with queries

```
// callback function to avoid duplicating it all over
   var callback = function (err, data) {
2
     if (err) { return console.error(err); }
3
      else { console.log(data); }
4
5
6
   // Get ONLY completed tasks
7
   Todo.find({completed: true }, callback);
8
9
   // Get all tasks ending with `JS`
10
   Todo.find({name: /JS$/ }, callback);
11
```

You can chain multiple queries, e.g.:

Chaining queries

```
// Get all tasks staring with `Master`, completed
Todo.find({name: /^Master/, completed: true }, callback);

// Get all tasks staring with `Master`, not completed and created fr
Todo.find({name: /^Master/, completed: false }).where('updated_at').
```

MongoDB query language is very powerful. We can combine regular expressions, date comparison and more!

3.4 Mongoose Update

Moving on, we are now going to explore how to update data.

Each model has an update method which accepts multiple updates (for batch updates, because it doesn't return an array with data).

- Model.update(conditions, update, [options], [callback])
- Model.findByIdAndUpdate(id, [update], [options], [callback])
- Model.findOneAndUpdate([conditions], [update], [options], [callback])

Alternatively, the method findOneAndUpdate could be used to update just one and return an object.

Todo.update and Todo.findOneAndUpdate

```
// Model.update(conditions, update, [options], [callback])
// update `multi`ple tasks from complete false to true

Todo.update({ name: /master/i }, { completed: true }, { multi: true
//Model.findOneAndUpdate([conditions], [update], [options], [callback]
Todo.findOneAndUpdate({name: /JS$/ }, {completed: false}, callback);
```

As you might noticed the batch undates (multir thus) doesn't show the data rather SHARES

```
1 { ok: 1, nModified: 1, n: 1 }
```

Here is what they mean:

- n means the number of records that matches the query
- nModified represents the number of documents that were modified with update query.

3.5 Mongoose Delete

update and remove mongoose API are identical, the only difference it is that no elements are returned. Try it on your own;)

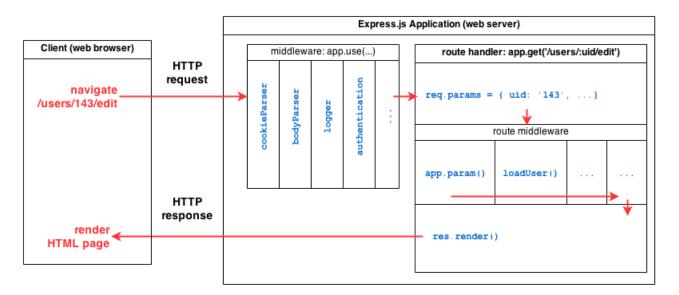
- Model.remove(conditions, [callback])
- Model.findByIdAndRemove(id, [options], [callback])
- Model.findOneAndRemove(conditions, [options], [callback])

4. ExpressJS and Middlewares

ExpressJS is a complete web framework solution. It has HTML template solutions (jade, ejs, handlebars, hogan.js) and CSS precompilers (less, stylus, compass). Through middlewares layers, it handles: cookies, sessions, caching, CSRF, compression and many more.

Middlewares are pluggable processors that runs on each request made to the server. You can have any number of middlewares that will process the request one by one in a serial fashion. Some middlewares might alter the request input. Others, might create log outputs, add data and pass it to the next() middleware in the chain.

We can use the middlewares using app.use. That will apply for all request. If you want to be more specific, you can use app.verb. For instance: app.get, app.delete, app.post, app.update, ...



Let's give some examples of middlewares to drive the point home.

Say you want to log the IP of the client on each request:

```
Log the client IP on every request
```

```
app.use(function (req, res, next) {
  var ip = req.headers['x-forwarded-for'] || req.connection.remoteAc
  console.log('Client IP:', ip);
  next();
});
```

Notice that each middleware has 3 parameters:

- req: contain all the requests objects like URLs, path, ...
- res: is the response object where we can send the reply back to the client.
- next: continue with the next middleware in the chain.

You can also specify a path that you want the middleware to activate on.

Middleware mounted on "/todos/:id" and log the request method

```
3 next();
4 });
```

And finally you can use <code>app.get</code> to catch GET requests with matching routes, reply the request with a <code>response.send</code> and end the middleware chain. Let's use what we learned on mongoose read to reply with the user's data that matches the <code>id</code>.

Middleware mounted on "/todos/:id" and returns

```
app.get('/todos/:id', function (req, res, next) {
   Todo.findById(req.params.id, function(err, todo){
      if(err) res.send(err);
      res.json(todo);
   });
}
```

Notice that all previous middlewares called next() except this last one, because it sends a response (in JSON) to the client with the requested todo data.

Hopefully, you don't have to develop a bunch of middlewares besides routes, since ExpressJS has a bunch of middlewares available.

4.1 Default Express 4.0 middlewares

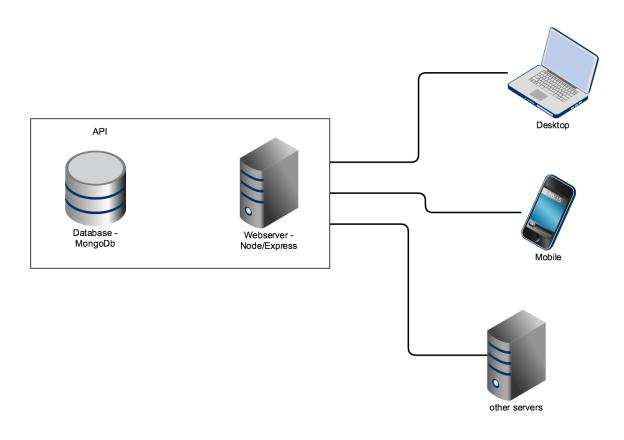
- morgan: logger
- body-parser: parse the body so you can access parameters in requests in req.body.e.g. req.body.name.
- cookie-parser: parse the cookies so you can access parameters in cookies req.cookies.e.g. req.cookies.name.
- serve-favicon: exactly that, serve favicon from route /favicon.ico. Should be
 call on the top before any other routing/middleware takes place to avoids
 unnecessary parsing.

The following middlewares are not added by default, but it's nice to know they exist at least:

- compression: compress all request. e.g. app.use(compression())
- session: create sessions. e.g. app.use(session({secret: 'Secr3t'}))
- method-override: app.use(methodOverride('_method')) Override methods to the one specified on the _method param. e.g. GET /resource/1?
 method=DELETE will become DELETE /resource/1.
- response-time: app.use(responseTime()) adds X-Response-Time header to responses.
- errorhandler: Aid development, by sending full error stack traces to the client when an error occurs. app.use(errorhandler()). It is good practice to surround it with an if statement to check process.env.NODE_ENV === 'development'.
- vhost: Allows you to use different stack of middlewares depending on the request hostname.e.g. app.use(vhost('*.user.local', userapp)) and app.use(vhost('assets-*.example.com', staticapp)) where userapp and staticapp are different express instances with different middlewares.
- csurf: Adds a Cross-site request forgery (CSRF) protection by adding a token to responds either via session or cookie-parser middleware.
 app.use(csrf());
- timeout: halt execution if it takes more that a given time. e.g.
 app.use(timeout('5s')); . However you need to check by yourself under every request with a middleware that checks if (!req.timedout) next(); .

5. Wiring up the MEAN Stack

In the next sections, we are going to put together everything that we learn from and build an API. They can be consume by browsers, mobile apps and even other servers.



5.1 Bootstrapping ExpressJS

After a detour in the land of Node, MongoDB, Mongoose, and middlewares, we are back to our express todoApp. This time to create the routes and finalize our RESTful API.

Express has a separate package called express-generator, which can help us to get started with out API.

```
Install and run "express-generator"
```

- 1 # install it globally using -g
- 2 npm install express-generator -g
- 4 # create todo-app API with EJS views (instead the default Jade)
- 5 express todo-api -e

SHARES

3

```
8
        create : todo-api/package.json
        create : todo-api/app.js
9
   #
        create : todo-api/public
10
        create : todo-api/public/javascripts
11
        create : todo-api/routes
12
13
        create : todo-api/routes/index.js
        create : todo-api/routes/users.js
14
        create : todo-api/public/stylesheets
15
        create : todo-api/public/stylesheets/style.css
16
        create : todo-api/views
17
        create : todo-api/views/index.ejs
18
        create : todo-api/views/layout.ejs
19
        create : todo-api/views/error.ejs
20
        create : todo-api/public/images
21
        create : todo-api/bin
22
        create : todo-api/bin/www
23
    #
24
   #
25
        install dependencies:
   #
          $ cd todo-api && npm install
26
   #
27
   #
28
    #
        run the app on Linux/Mac:
          $ DEBUG=todo-app:* npm start
29
   #
30
   #
        run the app on Windows:
31
   #
32
          $ SET DEBUG=todo-api:* & npm start
   #
```

This will create a new folder called todo-api. Let's go ahead and install the dependencies and run the app:

```
# install dependencies
cd todo-api && npm install

# run the app on Linux/Mac
PORT=4000 npm start

# run the app on Windows
SET PORT=4000 & npm start
```

Use your browser to go to http://0.0.0.0:4000, and you should see a message "Welcome

5.2 Connect ExpressJS to MongoDB

In this section we are going to access MongoDB using our newly created express app. Hopefully, you have installed MongoDB in the setup section, and you can start it by typing (if you haven't yet):

1 mongod

Install the MongoDB driver for NodeJS called mongoose:

```
1 npm install mongoose --save
```

Notice --save. It will add it to the todo-api/package.json

Next, you need to require mongoose in the todo-api/app.js

Add to app.js

```
// load mongoose package
1
   var mongoose = require('mongoose');
2
3
4
    // Use native Node promises
   mongoose.Promise = global.Promise;
5
6
   // connect to MongoDB
7
   mongoose.connect('mongodb://localhost/todo-api')
8
      .then(() => console.log('connection succesful'))
9
      .catch((err) => console.error(err));
10
```

Now, When you run npm start or ./bin/www, you will notice the message connection successful. Great!

You can find the repository here and the diff code at this point: diff

5.3 Creating the Todo model with Mongoose

It's show time! All the above was setup and preparation for this moment. Let bring the API to life.

Create a models directory and a Todo.js model:

```
1 mkdir models
2 touch models/Todo.js
```

In the models/Todo.js:

```
var mongoose = require('mongoose');
1
2
3
   var TodoSchema = new mongoose.Schema({
      name: String,
4
5
      completed: Boolean,
      note: String,
6
      updated_at: { type: Date, default: Date.now },
7
8
    });
9
   module.exports = mongoose.model('Todo', TodoSchema);
10
```

diff

What's going on up there? Isn't MongoDB suppose to be schemaless? Well, it is schemaless and very flexible indeed. However, very often we want bring sanity to our API/WebApp through validations and enforcing a schema to keep a consistent structure. Mongoose does that for us, which is nice.

You can use the following types:

- String
- Boolean

- Array
- Number
- ObjectId
- Mixed
- Buffer

6. API clients (Browser, Postman and curl)

I know you have not created any route yet. However, in the next sections you will. These are just three ways to retrieve, change and delete data from your future API.

6.1 Curl

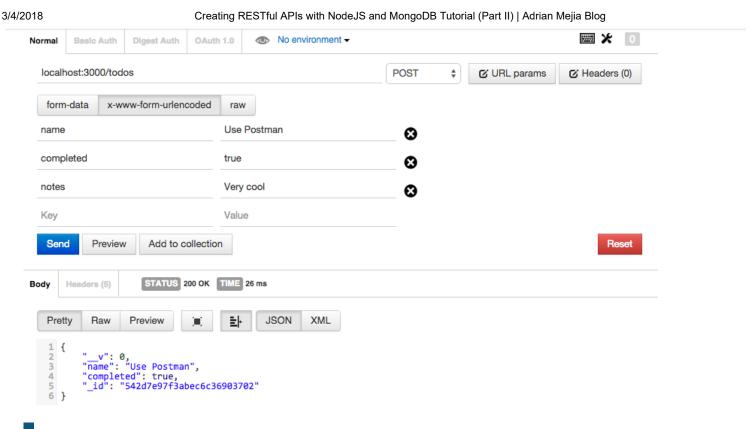
```
Create tasks
```

```
# Create task
curl -XPOST http://localhost:3000/todos -d 'name=Master%20Routes&con

# List tasks
curl -XGET http://localhost:3000/todos
```

6.2 Browser and Postman

If you open your browser and type localhost:3000/todos you will see all the tasks (when you implement it). However, you cannot do post commands by default. For further testing let's use a Chrome plugin called Postman. It allows you to use all the HTTP



Don't forget to check x-www-form-urlencoded or it won't work;)

6.3 Websites and Mobile Apps

Probably these are the main consumers of APIs. You can interact with RESTful APIs using jQuery's \$ajax and its wrappers, BackboneJS's Collections/models, AngularJS's \$http or \$resource, among many other libraries/frameworks and mobile clients.

In the end, we are going to explain how to use AngularJS to interact with this API.

7. ExpressJS Routes

To sum up we want to achieve the following:

Resource (URI)	POST (create)	GET (read)	PUT (update)	DELETE (destroy)
/todos	create new task	list tasks	error	error
/todos/:id	error	show task :id	update task :id	destroy task ID 1

Let's setup the routes

```
Create a new route called 'todos.js' in the 'routes' folder or rename 'users.js'
```

```
1 mv routes/users.js routes/todos.js
```

In app.js add new todos route, or just replace ./routes/users for
 ./routes/todos

Adding todos routes

```
var todos = require('./routes/todos');
app.use('/todos', todos);
```

All set! Now, let's go back and edit our routes/todos.js.

7.1 List: GET /todos

Remember mongoose query api? Here's how to use it in this context:

routes/todos.js

```
var express = require('express');
var router = express.Router();

var mongoose = require('mongoose');
var Todo = require('../models/Todo.js');
```

```
Todo.find(function (err, todos) {
   if (err) return next(err);
   res.json(todos);
};

module.exports = router;
```

Harvest time! We don't have any task in database but at least we verify it is working:

```
Testing all together

1  # Start database
2  mongod
3
4  # Start Webserver (in other terminal tab)
5  npm start
6
7  # Test API (in other terminal tab)
8  curl localhost:3000/todos
9  # => []%
```

diff

If it returns an empty array [] you are all set. If you get errors, try going back and making sure you didn't forget anything, or you can comment at the end of the post for help.

7.2 Create: POST /todos

Back in routes/todos.js, we are going to add the ability to create using mongoose create. Can you make it work before looking at the next example?

```
routes/todos.js (showing just create route)

1
2  /* POST /todos */

SHARES
```

```
if (err) return next(err);
res.json(post);
};

});
```

diff

A few things:

- We are using the router.post instead of router.get.
- You have to stop and run the server again: npm start.

Everytime you change a file you have to stop and start the web server. Let's fix that using nodemon to refresh automatically:

Nodemon

SHARES

```
# install nodemon globally
npm install nodemon -g

# Run web server with nodemon
nodemon
```

7.3 Show: GET /todos/:id

This is a snap with Todo.findById and req.params. Notice that params matches the placeholder name we set while defining the route. :id in this case.

```
routes/todos.js (showing just show route)

1  /* GET /todos/id */
2  router.get('/:id', function(req, res, next) {
3    Todo.findById(req.params.id, function (err, post) {
4     if (err) return next(err);
5     res.json(post);
6    });
7  });
```

diff

Let's test what we have so far!

```
Testing the API with Curl
```

```
# Start Web Server on port 4000 (default is 3000)
1
2
    PORT=4000 nodemon
3
4
   # Create a todo using the API
    curl -XPOST http://localhost:4000/todos -d 'name=Master%20Routes&cc
5
   # => {"__v":0, "name": "Master Routes", "completed": false, "note": "soon
6
7
   # Get todo by ID (use the id from the previous request, in my case
    curl -XGET http://localhost:4000/todos/57a655997d2241695585ecf8
    {" id": "57a655997d2241695585ecf8", "name": "Master Routes", "completed
10
11
    # Get all elements (notice it is an array)
12
    curl -XGET http://localhost:4000/todos
13
   [{"_id":"57a655997d2241695585ecf8","name":"Master Routes","complete
```

7.4 Update: PUT /todos/:id

Back in routes/todos.js, we are going to update tasks. This one you can do without looking at the example below, review findByldAndUpdate and give it a try!

```
routes/todos.js (showing just update route)
```

```
/* PUT /todos/:id */
router.put('/:id', function(req, res, next) {
   Todo.findByIdAndUpdate(req.params.id, req.body, function (err, pos if (err) return next(err);
   res.json(post);
});
});
```

curl update

```
# Use the ID from the todo, in my case 57a655997d2241695585ecf8
curl -XPUT http://localhost:4000/todos/57a655997d2241695585ecf8 -d '
# => {"_id":"57a655997d2241695585ecf8","name":"Master Routes","comp]
```

7.5 Destroy: DELETE /todos/:id

Finally, the last one! Almost identical to update, use findByIdAndRemove.

```
routes/todos.js (showing just update route)

1  /* DELETE /todos/:id */
2  router.delete('/:id', function(req, res, next) {
3    Todo.findByIdAndRemove(req.params.id, req.body, function (err, pos if (err) return next(err);
5    res.json(post);
6  });
7 });
```

diff

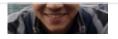
Is it working? Cool, you are done then! Is NOT working? take a look at the full repository.

8. What's next?

Connecting AngularJS with this endpoint. Check out the third tutorial in this series.



Adrian Maiis is a full stock wish dayslaner working at Cisco in Poston



writing books and posts about programming, technologies and nerdy stuff. Find our more here.

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♠ Back to top Edit

Contents

- 1. What is a RESTful API?
- Installing the MEAN Stack Backend
- 3. Using MongoDB with Mongoose
- 4. ExpressJS and Middlewares
- 5. Wiring up the MEAN Stack
- 6. API clients (Browser, Postman and curl)
- 7. ExpressJS Routes
- 8. What's next?

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AngularJS NodeJS (Part III)

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Name



Adam Carr • 2 years ago

For anyone completing this tutorial using a current mongoose, I think the callback used in the Todo.update code sample is deprecated. Rather than getting (err, numAffected, raw) you now get (err, result) where result is an object with "ok", "nModified", and "n" keys. result.nModified will give you the number of rows affected. Hope that saves some time, cheers!

31 ^ V • Reply • Share >



rjmil → Adam Carr • 2 years ago



adriansky Mod → Adam Carr • 2 years ago

Yes, that's true. I just fixed it and updated the tutorials with latest mongoose, node and express Reply • Share >



Abhijith S • 3 years ago

Its good and its helped me a lot. Thank you.



David • 3 years ago

Awesome Tutorial. I could easily make my first steps with the MEAN stack and REST! Thank you so much Adrian!!

With best regards from Germany,

David



adriansky Mod → David • 2 years ago

You are welcome! Glad you liked it



Nathan Torquato • a year ago

Is there any live demo?

I've cloned the repo but it's not running locally. :/



Ahmed • 3 years ago

Hi,

I think you forgot to include the step of installing mongoose. I had to 'npm install mongoose' before I was able to require('mongoose').

Great tutorial!



adriansky Mod → Ahmed • 2 years ago

Thanks, I just updated the tutorial!



Luiz Guilherme Silva Junior • a year ago

Nice Post!

It helped me a lot while I was making a module that generate the endpoints based on your sequelize models.

o ~ | v · Kepiy · Snare >



Jonas Östlund • 3 years ago

As a clojure/lisp programmer, I appreciate your bottom-up approach to teaching. Start with the smallest building blocks and then assemble them into something meaningful.

5 ^ V • Reply • Share >



adriansky Mod → Jonas Östlund • 2 years ago

Glad you liked it!

∧ V • Reply • Share >



hakeem ahmad • 3 years ago

why did you commit the "node_modules" directory? i think it should be ignored by git

2 ^ V • Reply • Share >



adriansky Mod → hakeem ahmad • 2 years ago

.gitignore was not set correctly. It's fixed now

∧ V • Reply • Share >



Martin Jul Hammer • a year ago

Great article. Got my express js server up and running:)

1 ^ Reply • Share



adriansky Mod → Martin Jul Hammer • a year ago

I'm glad to hear it!



Ivo de Geus • a year ago

Thank you Adrian, this finally kickstarted me in MEAN development!

1 ^ Reply • Share >



adriansky Mod → Ivo de Geus • a year ago

Awesome! You are welcome!

∧ V • Reply • Share >



BrahBassim • 3 years ago

Thank you very much for this tuts. The best i found.....

1 ^ Reply • Share >



Raul Abreu Leite • 3 years ago

I think this line is useless:

var mongoose = require('mongoose');

Muito bom, tutorial! Obrigado!



adriansky Mod → Raul Abreu Leite • 2 years ago

Thanks! Removed!



Sai • 3 years ago

This was really helpful getting started with MEAN and REST!



Lemaire Lucas • 10 months ago

Great tutorial!



William Romano • 10 months ago

Hi,

Great tutorial, I have an issue with it tho: On safari I only get the first value on my ng repeat, (if I send a static array I made in the scope it works) any ideas?



Евгений Бегунов • a year ago

Hi! Thank You for tutorial!



Anony User • a year ago

I was getting this error

MongoDB not working. "ERROR: dbpath (/data/db) does not exist."

Here is the solution for the same problem if any one is getting the same.

in terminal type

sudo mkdir -p /data/db/

sudo chown 'id -u' /data/db

monngod

it should start running...

thanks for the nice description, covers all basic steps.



∧ V • Reply • Share >



Tim Owings • a year ago

This is a great tutorial even if I came to it late...couple of questions though. what is the reason you first create a project using npm init in the project directory and then create the main part of the app using express in the todo-api directory? Also, what is the reason for using node <cli>versus just editing a file...I apologize if these are stupid questions....Thanks!

∧ V • Reply • Share >



Bendik B • a year ago

Hi! Great tutorial, I have one problem I really cannot find an answer to by Google. I successfully retrieve an empty array when using curl -XGET, but when i try to XPOST, I get a validation error. I am using curl -XPOST https://myurl:8080/todos -d 'name=MasterRoutes&completed=false¬e=soon...'. I am posting the stacktrace below. I get the same error when using postman.

My Todo.js model is identical with yours.

I had to make one change to the routing, because express.Router() gave me an error when trying to call router.get, saying router was undefined. So i simply did router = express() and then router.get.

Any help greatly appreciated. Thanks!

Stacktrace:

ValidationError: Todo validation failed

at MongooseError.ValidationError (/home/ubuntu/workspace/todo-

api/node_modules/mongoose/lib/error/validation.js:23:11)

at model.Document.invalidate (/home/ubuntu/workspace/todo-

api/node_modules/mongoose/lib/document.js:1486:32)

at model.Document.set (/home/ubuntu/workspace/todo-

ani/node modules/mongoose/lib/document is:753:10)

see more

∧ | ∨ • Reply • Share ›



Asuka Ishiyama • a year ago

this shit sucks...none of these work like it should and the walkthroughs are completely unclear • Reply • Share >



adriansky Mod → Asuka Ishiyama • a year ago

Sorry to hear that. Where did you get lost?

Reply • Share >



Asuka Ishiyama → adriansky • a year ago

down through step 3 with Mongoose and CRUD. Whenever i go to input the code, i keep getting errors and i cant go beyond that

A Ponty Share



Yeah, I know it can be frustrating when things are not workig. If you post here the errors you are having I could give some pointers.



Dennis M Dewey • a year ago

Thank you so much for this well-structured tutorial on setting up an API using MongoDB and NodeJS ExpressJS.

I've been developing an Electron(atom-shell) application using AngularJS 1.x and my employers want me to connect it to an ASP.NET API that is using a MS SQL backend (I knowWTF?!?!?!?). Unfortunately I'm getting NTLM Authentication issues and cannot even use an API checker like POSTMAN to test/troubleshoot it. I'm going to try to sell them on using the appropriate technologies for this sort of project and Electron was not necessarily designed to work well with ASP.NET in the first place.

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sreng khorn • a year ago

where is part I??

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adriansky Mod → sreng khorn • a year ago

It's here: http://adrianmejia.com/blog...



An Karthik • 2 years ago

Very nice and descriptive blog. Helped a lot.

Though I got stuck up at one point.

When we are trying CRUD using the Node CLI:

The following line is mentioned in the post:

"We can play with Mongoose in the console. In the todoApp type node to enter in the node CLI. Then:"

I am getting an error in the following command:

var mongoose = require('mongoose');

Cannot find module Mongoose.

Can anyone help me here.



adriansky Mod → An Karthik • 2 years ago

You need to install it first "npm install mongoose" and the "node" and it would work



good job. i used this tut to build a different api and it worked. usually, even if you follow every step, something goes wrong because things were left out.

moo tut 2 years age



JL • 3 years ago

hi there. i've just attempted this on an ubuntu server but i'm not getting any results from my database. I had an existing mongo database so I decided to try to make a CRUD server using it. Please see my post here for details: http://stackoverflow.com/qu...



JL → JL • 3 years ago

I've resolve the issue. Mongoose / mongodb (?) was pluralizing my collection name and therefore the queries were failing. I had to pass the third argument to the mongoose.model() method and explicitly tell it what the name of the collection is. Voila. Everything is working.



adriansky Mod → JL • 2 years ago

Great!



Simon Dupon • 3 years ago

O, I got it: when making post in POSTMAN you should select 'x-www-form-urlencoded' tab.



adriansky Mod → Simon Dupon • 2 years ago

Yes, without that doesn't work



jainam shah A adriansky • a month ago

Hi even if it is checked I cannot make a POST call . It returns a Not Found 404 error . Can you please help . I'm stuck here All files are also identical

SI	НΖ	ΔI	R	ES

see more



Simon Dupon • 3 years ago

My code is identical to yours, but I do not get 'name', 'completed' and 'note' data in responses, only '_d', '__v' and 'updated_at':



adriansky Mod → Simon Dupon • 2 years ago

Also if you are using postman, make sure you have x-www-form-urlencoded selected





adriansky Mod → Simon Dupon • 2 years ago

Make sure todo.js is the same as the one in the project. Compare the final results with your



johaness vix • 3 years ago

its a little verbose from my point of view. for a crud thats too much code. any alternative which can be compared to a Spring Rests repository for Node?



Dimitri Mikadze • 3 years ago

Thank you I

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