

**Bhargav Lad** 

CS Graduate Student.

HOME

CATEGORIES

**TAGS** 

ARCHIVES

AI PORTFOLIO

SHOWCASE

**ABOUT** 

# Mongoose CheatSheet

Posted 1 year ago by Bhargav Lad

# Mongoose Operations Cheat sheet

#### Schema

#### **Types**

- String
- Boolean
- Number
- Date
- Array
- Buffer
- Schema.Types.Mixed
- Schema.Types.ObjectId

```
const UserSchema = new mongoose.Schema({
 1
       fullname: {
 2
         type: String, // Data Type
 3
         min:6,
 4
 5
         required: [true, "Please enter your fullname"], // Required with error
 6
         trim: true,
 7
 8
       followersCount: {
 9
         type: Number,
10
         default: 0,
11
       },
12
       followers: [{ type: mongoose.Schema.ObjectId, ref: "User" }], // Array of Object Ids and
13
     ref to schema
14
       createdAt: {
15
         type: Date,
16
         default: Date.now,
17
       },
18
       drink: {
19
         type: String,
20
         enum: ['Coffee', 'Tea', 'Water',]
21
       }
22
23
24
      module.exports = mongoose.model("User", UserSchema);
```

# Queries are not promises

<u>Mongoose queries</u> are **not** promises. They have a . then() function for <u>co</u> and async/await as a convenience. If you need a fully-fledged promise, use the . exec() function.







Bhargav Lad
CS Graduate Student.

HOME

CATEGORIES

**TAGS** 

**ARCHIVES** 

AI PORTFOLIO

SHOWCASE

ABOUT

```
const query = Band.findOne({name: "Guns N' Roses"});
 2
     assert.ok(!(query instanceof Promise));
3
     // A query is not a fully-fledged promise, but it does have a `.then()`.
 4
     query.then(function (doc) {
5
       // use doc
 6
     });
7
8
9
     // `.exec()` gives you a fully-fledged promise
     const promise = query.exec(); //or use await on promise
10
     assert.ok(promise instanceof Promise);
11
12
     promise.then(function (doc) {
13
       // use doc
14
15
     });
```

#### Methods

## Mongoose Model Methods

- find(criteria, [fields], [options], [callback]): find document; callback has error and documents arguments
- count(criteria, [callback])): return a count; callback has error and count arguments
- findById(id, [fields], [options], [callback]): return a single document by ID; callback has error and document arguments
- findByIdAndUpdate(id, [update], [options], [callback]): executes MongoDB's findAndModify to update by ID
- findByIdAndRemove(id, [options], [callback]): executes MongoDB's findAndModify to remove
- findOne(criteria, [fields], [options], [callback]): return a single document; callback has error and document arguments
- findOneAndUpdate([criteria], [update], [options], [callback]):executes MongoDB's findAndModify to update
- findOneAndRemove(id, [update], [options], [callback]): executes MongoDB's findAndModify to remove
- update(criteria, update, [options], [callback]): update documents; callback has error, and count arguments
- create(doc(s), [callback]): create document object and save it to database; callback has error and doc(s) arguments
- remove(criteria, [callback]): remove documents; callback has error argument

#### **Examples**

```
User.find({ author : bob._id }).exec()
2
3
    User.find()
4
       .where("_id")
5
       .in(following.concat([req.user.id]))
6
7
               -----Find and Populate-----
8
9
    Post.find()
10
       .populate({
11
         path: "comments",
12
         select: "text",
13
         populate: { path: "user", select: "avatar fullname username" }, // Two level populate
14
       })
15
       .populate({ path: "user", select: "avatar fullname username" })
16
       .sort("-createdAt")
17
       .where(" id")
```

<u>Posts</u> > Mongoose CheatSheet

Q Search...



**Bhargav Lad** 

CS Graduate Student.

HOME

CATEGORIES

**TAGS** 

ARCHIVES

AI PORTFOLIO

SHOWCASE

**ABOUT** 

```
20
       .exec();
21
22
    23
      const regex = new RegExp(req.query.username, "i");
      const users = await User.find({ username: regex });
24
25
    // ------
26
    User.findOne({ title: 'Bob goes sledding' })
          .select("-password")
27
      .populate('author')
28
29
      .exec()
    // ------
30
31
    User.findById(bob._id)
    .populate({ path: "posts", select: "files commentsCount likesCount" })
32
       .populate({ path: "savedPosts", select: "files commentsCount likesCount" })
33
       .populate({ path: "followers", select: "avatar username fullname" })
34
       .populate({ path: "following", select: "avatar username fullname" })
35
       .lean() //Enabling the lean option tells Mongoose to skip instantiating a full Mongoose
36
37
    document and just give you the POJO (So you cannot use Save() and other document methods)
38
       .exec();
39
    40
    User.findByIdAndUpdate(req.params.id, {
41
       $push: { followers: req.user.id },
42
       $inc: { followersCount: 1 },
43
44
     });
45
     // ------ update with options ------Find by Id and Update with options
46
47
    User.findByIdAndUpdate(
48
       req.user.id,
49
       {
50
         $set: { ...fieldsToUpdate, website, bio },
52
       },
       {
53
54
         new: true,
         runValidators: true,
55
56
     ).select("avatar username fullname email bio website");
57
58
    // ------
59
60
    User.findByIdAndUpdate(req.user.id, {
       $pull: { posts: req.params.id },
61
       $inc: { postCount: -1 },
62
63
     });
64
65
66
         67
68
     let post = await Post.create({ caption, files, tags, user });
69
70
      await User.findByIdAndUpdate(req.user.id, {
71
       $push: { posts: post._id },
       $inc: { postCount: 1 },
72
73
     post = await post
       .populate({ path: "user", select: "avatar username fullname" })
       .execPopulate(); // execPopulate is used to explicitly execute populate on query
```

# Mongoose Document Methods

- save([callback]): save the document; callback has error, doc and count arguments
- set(path, val, [type], [options]): set value on the doc's property
- get(path, [type]):getthe value
- isModified([path]): check if the property has been modified
- nonulate([nath], [callback]): populate reference









validate(callback): validate the document



**Bhargav Lad** CS Graduate Student.

HOME

TAGS

ARCHIVES

AI PORTFOLIO

**ABOUT** 

```
1
 2
       let post = await Post.create({ caption, files, tags, user });
 3
 4
       await User.findByIdAndUpdate(req.user.id, {
 5
         $push: { posts: post._id },
 6
         $inc: { postCount: 1 },
 7
       });
 8
9
       post = await post
10
         .populate({ path: "user", select: "avatar username fullname" })
11
         .execPopulate(); // execPopulate is used to explicitly execute populate on query
12
13
14
```

Learning, Javascript

mongoose mongodb orm cheatsheet

This post is licensed under <u>CC BY 4.0</u> by the author.

Share: **9 1 2 6** 

OLDER

First missing positive

NEWER

Mordern C++ Tricks

#### **Further Reading**

1 year ago

### TypeORM CheatSheet

Setting up TypeORM: Cheatsheet [TOC] Connect with database 12... 1 year ago

# 20 Days of openCV -<u>Day 1</u>

20 Days of openCV - Day 1 This blog is based on Ardrian R. Face...

1 year ago

# Visualize Sorting Algorithm using React

Introduction We all have implemented some sorting...

© 2021 **Bhargav Lad**. Some rights reserved.

Powered by **Jekyll** with **Chirpy** theme.





