Mongoose JS

An Overview

Schema as Data Model

How to use?

Schema as Data Model

```
var BookSchema = new Schema({
  title: String,
  published: {
    type: Date,
    default: Date.now
  },
  keywords: Array,
  published: Boolean
});
```

What is does?

Creates Object Reference

```
var BookSchema = new Schema({
  title: String,
  published: {
    type: Date,
    default: Date.now
  },
  keywords: Array,
  published: Boolean
});
```

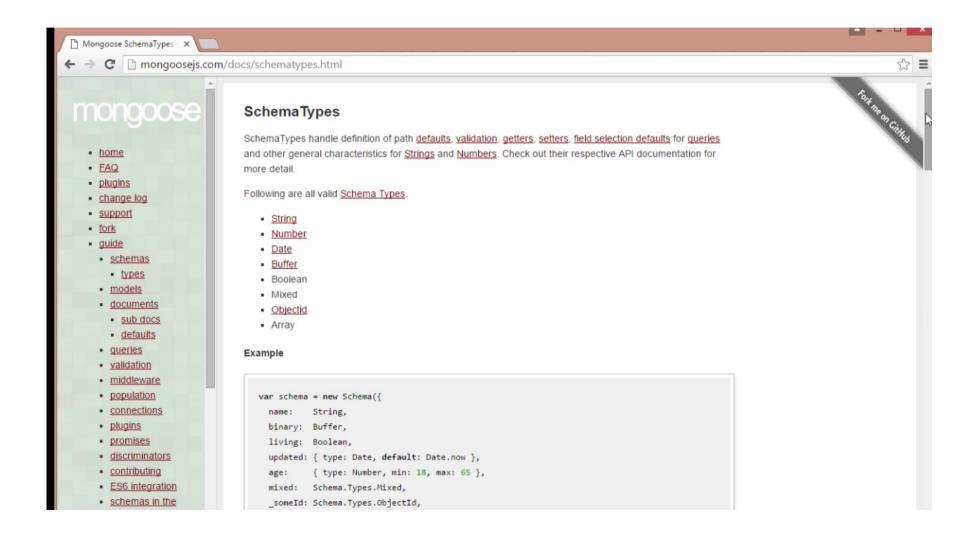




How to use?

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;
var BookSchema = new Schema({
 title: String,
 keywords: Array,
 published: Boolean
});
module.exports = mongoose.model('Book', BookSchema);
```

Where to find more information?



How it helps?

```
var BookSchema = new Schema({
 title: String,
 published: {
  type: Date,
  default: Date.now
 keywords: Array,
 published: Boolean,
                                                   Display the data:
 author: {
  type: Schema.Objectld,
                                          data.detail.modelNumber
  ref: 'User'
 // Embedded sub-document
 detail: {
  modelNumber: Number,
  hardcover: Boolean,
  reviews: Number,
  rank: Number
module.exports = mongoose.model('Book', BookSchema);
```

findAll()

```
var express = require('express');
var app = express();
var bodyParser = require('body-parser');
var mongoose = require('mongoose');
var Book = require('./Book.model');
var port = 8080;
var db = 'mongodb://localhost/example';
mongoose.connect(db);
app.get('/', function(req, res) {
 res.send('happy to be here');
});
app.get('/books', function(req, res) {
 console.log('getting all books');
 Book.find({})
  .exec(function(err, books) {
```

findAll()

```
var port = 8080;
var db = 'mongodb://localhost/example';
mongoose.connect(db);
app.get('/', function(req, res) {
 res.send('happy to be here');
});
app.get('/books', function(req, res) {
 console.log('getting all books');
 Book.find({})
  .exec(function(err, books) {
   if(err) {
     res.send('error has occured');
    } else {
     console.log(books);
     res.json(books);
```

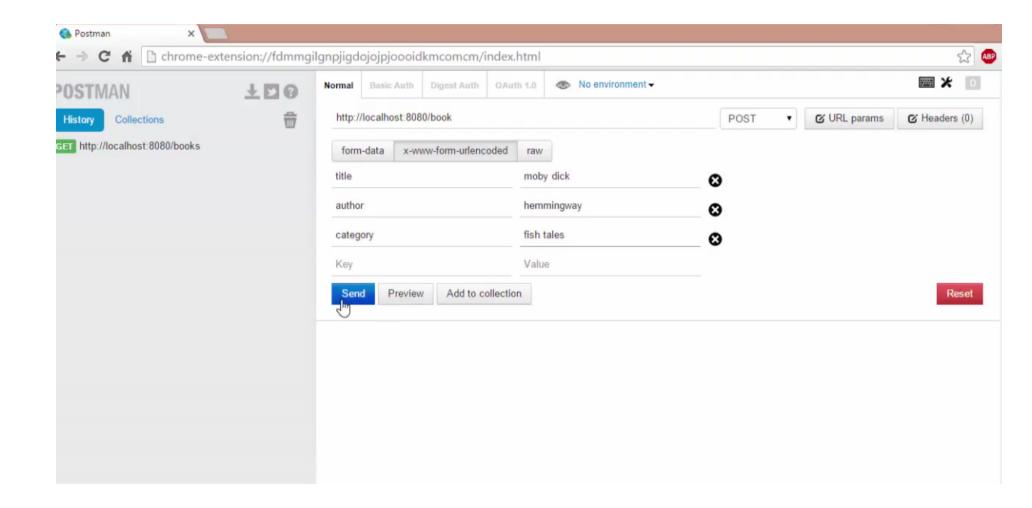
findOne()

```
app.get('/books/:id', function(req, res) {
   console.log('getting one book');
   Book.findOne({
    _id: req.params.id
})
   .exec(function(err, book) {
    if(err) {
      res.send('error occured');
    } else {
      console.log(book);
      res.json(book);
   }
})
```

Save() aka update()

```
app.post('/book', function(req, res) {
 var newBook = new Book();
 newBook.title = req.body.title;
 newBook.author = req.body.author;
 newBook.category = req.body.category;
 newBook.save(function(err, book) {
  if(err) {
    res.send('error saving book');
  } else {
   console.log(book);
   res.send(book);
 });
app.listen(port, function() {
 console.log('app listening on port ' + port);
});
```

```
app.post('/book2', function(req, res) {
    Book.create(req.body, function(err, book) {
    if(err) {
       res.send('error saving book');
    } else {
       console.log(book);
       res.send(book);
    }
    });
```



update()

```
app.put('/book/:id', function(req, res) {
 Book.findOneAndUpdate({
    id: rea.params.id
 { $set: { title: req.body.title }},
   { upsert: true },
    tunction(err, newbook) {
     if(err) {
      console.log('error occured');
     } else {
      console.log(newBook);
      res.status(204);
    });
});
app.listen(port, function() {
 console.log('app listening on port ' + port);
```

delete()

```
app.delete('/book/:id', function(req, res) {
 Book.findOneAndRemove({
  _id: req.params.id
 }, function(err, book) {
  if(err) {
   res.send('error deleting');
  } else {
   console.log(look);
   res.status(204);
app.listen(port, function() {
console.log('app listening on port ' + port);
```