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<u>Course</u> > <u>Workin</u>... > <u>Creatin</u>... > Custo...

Custom Mongoose Methods Video: Custom Mongoose Methods

```
us mongoose.js
   const mongoose = require('mongoose')
   mongoose.Promise = global.Promise
   mongoose.connect('mongodb://localhost:27017/edx-course-db', {useMongoClient: true}
   const bookSchema = mongoose.Schema({ name: String });
   bookSchema.method({
     buy(quantity, customer, callback) {
       var bookToPurchase = this
       console.log('buy')
       return callback()
     },
     refund(customer, callback) {
       console.log('refund')
       return callback()
   })
   bookSchema.static({
     getZeroInventoryReport(callback) {
       console.log('getZeroInventoryReport')
       let books = []
       return callback(books)
     },
     getCountOfBooksById(bookId, callback) {
       console.log('getCountOfBooksById')
       let count = 0
      Modules/Project_Files/Module_04/Lesson_04/mongoose.js 73:1
    0:15 / 3:49
1.50x
                                                                           X
                                                                                 CC
                                                                                      "
```

Video

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Custom Static and Instance Methods

In addition to dozens of built-in Mongoose model methods, we can add custom ones. For example, to initiate a purchase, we can call the buy method on the document practicalNodeBook after we implement the custom instance method buy():

```
bookSchema.method({
  buy: function(quantity, customer, callback) {
    var bookToPurchase = this
    //create a purchase order and invoice customer
    return callback(results)
  },
  refund: function(customer, callback) {
    //process the refund
    return callback(results)
  }
})
```

Static methods are useful when we either don't have a particular document object or we don't need it:

```
bookSchema.static({
  getZeroInventoryReport: function(callback) {
    //run a query on all books and get the ones with zero inventory
    return callback(books)
  },
  getCountOfBooksById: function(bookId, callback){
    //run a query and get the number of books left for a given book
    return callback(count)
  }
})
```

Hooks for Keeping Code Organized

In a complex application with a lot of interrelated objects, we might want to execute certain logic before saving an object. Hooks are a good place to store such logic. For example, we might want to upload a PDF to the web site before saving a book document:

```
bookSchema.pre('save', function(next) {
    //prepare for saving
    //upload PDF
    return next()
})
```

On the other hand, before removing, we need to make sure there are no pending purchase orders for this book:

```
bookSchema.pre('remove', function(next) {
    //prepare for removing
    return next(e)
})
```

Hooks are triggered before or after an event is executed. Hooks allow you to place business logic where it's best suited - in the model schemas.

Note: Hooks and methods must be added to the schemas before compiling them to models—in other words, before calling the mongoose.model() method.

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