



FREE eBook

LEARNING sequelize.js

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#sequelize.js

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About

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Chapter 1: Getting started with sequelize.js

Remarks

Sequelize is a promise-based ORM for [Node.js](#) and [io.js](#). It supports the dialects [PostgreSQL](#), [MySQL](#), [MariaDB](#), [SQLite](#) and [MSSQL](#) and features solid transaction support, relations, read replication and more.

For more information on what an "ORM" is, check out this article: [Object-Relational Mapping](#)

Examples

Installation or Setup

Detailed instructions on getting sequelize.js set up or installed.

Read [Getting started with sequelize.js](#) online: <https://riptutorial.com/sequelize-js/topic/4715/getting-started-with-sequelize-js>

Chapter 2: Modify attributes in beforeCreate hook

Introduction

We might need to modify the attributes before record is created. My use case was encrypting password when user is created.

Hooks doc is here <http://docs.sequelizejs.com/en/v3/docs/hooks/#instance-hooks>. It documents the way to use it with a library / function that returns a `Promise`. But the use case with a callback is not clearly documented.

Syntax

- `beforeCreate(instance)`
- `beforeCreate(instance, options, fn)`

Examples

Example working with a library that doesn't use Promise

```
function cryptPassword(password, callback) {
  bcrypt.genSalt(SALT_WORK_FACTOR, function(err, salt) {
    if (err)
      return callback(err);

    bcrypt.hash(password, salt, null, function(err, hash) {
      return callback(err, hash);
    });
  });
}

User.beforeCreate((user, options, cb) => {
  cryptPassword(user.password, (err, hash) => {
    if (err) return cb(err);

    user.password = hash;
    // invoking the finish callback is important!
    return cb(null, options);
  });
});
```

Example working with a library that doesn't use Promise

```
User.beforeCreate(function(user, options) {
  return hashPassword(user.password).then(function (hashedPw) {
    user.password = hashedPw;
  });
});
```

```
})
```

Read Modify attributes in beforeCreate hook online: <https://riptutorial.com/sequelize-js/topic/9002/modify-attributes-in-beforecreate-hook>

Chapter 3: Set Up / Installation

Examples

Install necessary modules

In order to start using Sequelize, you must first install the Sequelize package using the Node Package Manager (`npm`).

Install sequelize module

Add `--save` option to store module in `package.json`

```
npm install sequelize
```

Next, depending on which database system you wish to use with Sequelize, install the appropriate package. Sequelize currently supports MySQL, PostgreSQL, SQLite and Microsoft SQL Server.

Install MySQL for MySQL database

```
npm install mysql
```

Install SQLite for SQLite database

```
npm install sqlite3
```

Install PostgreSQL (and hstore) for PostgreSQL database

```
npm install pg pg-hstore
```

Install MSSQL (and tedious driver) for Microsoft SQL Server

```
npm install tedious mssql
```

This information can also be found in Sequelize's [Documentation](#).

For sqlite package in nw.js

1. `npm install sqlite3 --build-from-source --runtime=node-webkit --target_arch=ia32 --target=`
target is important. ex:0.16.1
2. `npm rebuild`
3. Create a folder for sqlite db.
4. Remember `sequelize.sync()`;

Read Set Up / Installation online: <https://riptutorial.com/sequelize-js/topic/4756/set-up---installation>

Credits

S. No	Chapters	Contributors
1	Getting started with sequelize.js	Community , SamHuckaby
2	Modify attributes in beforeCreate hook	Edmund Lee
3	Set Up / Installation	DemCodeLines , Kvlknctk , sdepold