

Fundamentals of Mongoose for Node and MongoDB

COURSE INTRODUCTION



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PLURALSIGHT AUTHOR

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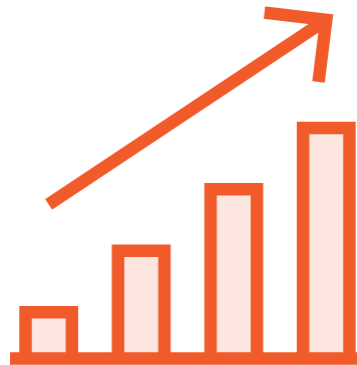


Introduction



NoSQL

Non-relational
database systems



Popularity

Increased use has
been seen



MongoDB

The clear favorite





Considered NoSQL

MongoDB, Couchbase, Firebase, or others...

Uncomfortable with lack of structure

Come from a relational background



Relational Database



Filing Cabinet

Think of a database as filing cabinet



Rule-based

Relational data stored must match the schema



NoSQL Database



Filing Cabinet

File any document you want



Freedom

Database does not set the rules



Course Goals

Building Blocks

Mongoose

**Store and Retrieve
Documents**

**Structured /
Schema-based**

“Some Rules”

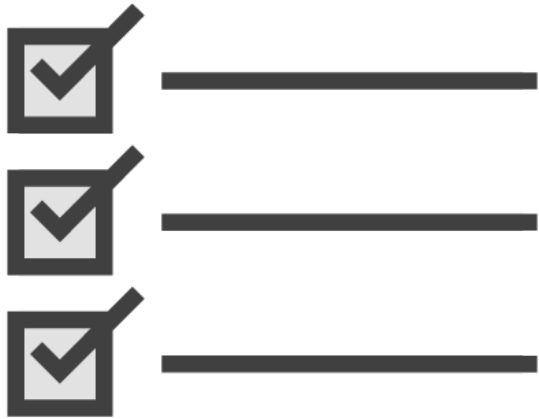
Demo Application



Prerequisites



Prerequisites



Node.js

MongoDB

Node courses

- bit.ly/node-ps

MongoDB courses

- bit.ly/mongo-ps

JavaScript

Explore and learn!



Why Mongoose?



Native MongoDB Drivers

C++

C#

Java

Perl

PHP

Python

Ruby

Node.js



Native MongoDB Driver Example

```
const MongoClient = require('mongodb').MongoClient;

// Connect to the database
MongoClient.connect("mongodb://localhost:27017/exampleDb",

function(err, db) {
  if(!err) {
    console.log("We are connected");
  }
});
```

docs.mongodb.com/ecosystem/drivers/



Fork me on GitHub

mongoose

elegant **mongodb** object modeling for **node.js**

[read the docs](#)

[discover plugins](#)

🌟 Star 16,957

Version 5.2.17

🍴 Fork 2,448

Let's face it, **writing MongoDB validation, casting and business logic boilerplate is a drag.** That's why we wrote Mongoose.

Let's face it, **writing MongoDB validation, casting and business logic boilerplate is a drag**. That's why we wrote Mongoose.

```
const mongoose = require('mongoose');
mongoose.connect('mongodb://localhost/test');

const Cat = mongoose.model('Cat', { name: String });

const kitty = new Cat({ name: 'Zildjian' });
kitty.save().then(() => console.log('meow'));
```

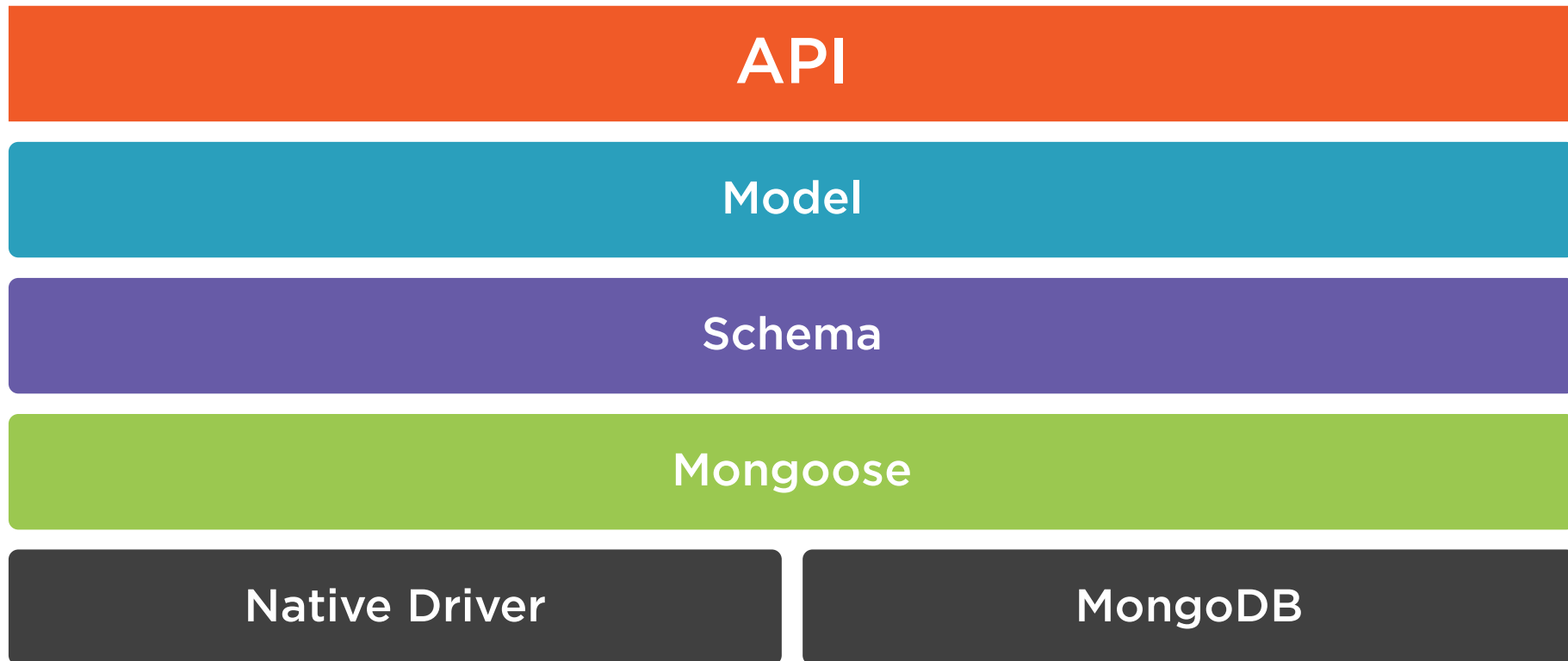
Mongoose provides a straight-forward, schema-based solution to model your application data. It includes built-in type casting, validation, query building, business logic hooks and more, out of the box.



Get Professionally Supported Mongoose

getting started

Abstraction Layer



Why Mongoose?



No one single “best” answer

Course goals:

- When to use mongoose.js
- When native driver may be a better choice.

We'll be using mongoose.js!

Demo Application Introduction





Peek at Completed Demo

What is its purpose?



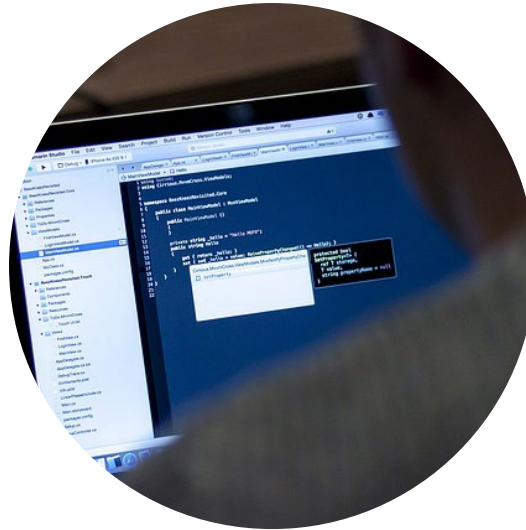
Virtual Standup Meeting



Virtual Stand-up Meeting



Mary



David



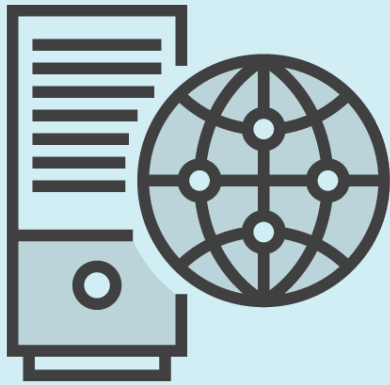
Summer



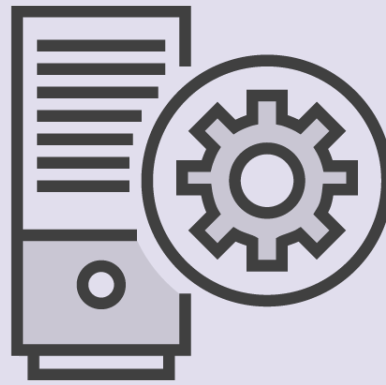
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Baseline Architecture



Client (UI)



Restful API



MongoDB
Database



Vue.js

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Building Business Applications with Vue.js and MongoDB



Vue.js Fundamentals



<https://www.pluralsight.com/search?q=vue.js>



Demo



Preview of the demo application

“Virtual Standup Notes”

- Completed application

