

Building a Model

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Introduction

**Build Model...
From Schema**

Relationship
Model \leftrightarrow Document

**Construct,
Save Documents**

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editing)

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Our First Model

```
var mongoose = require('mongoose');
var Schema = mongoose.Schema;

var customerSchema = new Schema({
  name:      String,
  address:   String,
  city:      String,
  state:     String,
  country:   String,
  zipCode:   Number,
  createdOn: Date,
  isActive:  Boolean
});

// Build a model from the customer schema...
var Customer = mongoose.model('Customer', customerSchema);

// Add a custom property to the schema...
customerSchema.add({ discountCode: String });

var DiscountedCust = mongoose.model('DiscountCust', customerSchema);
```

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```
// standup.server.model.js file

var mongoose = require('mongoose');
var Schema = mongoose.Schema;

// Stand-up Meeting Notes Schema Definition...
var standupSchema = new Schema({
  memberName: String,
  project: String,
  workYesterday: String,
  workToday: String,
  impediment: String,
  createdOn: { type: Date, default: Date.now }
});

// Expose (export) the model now...
module.exports = mongoose.model( 'Standup', standupSchema );
```

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Documents



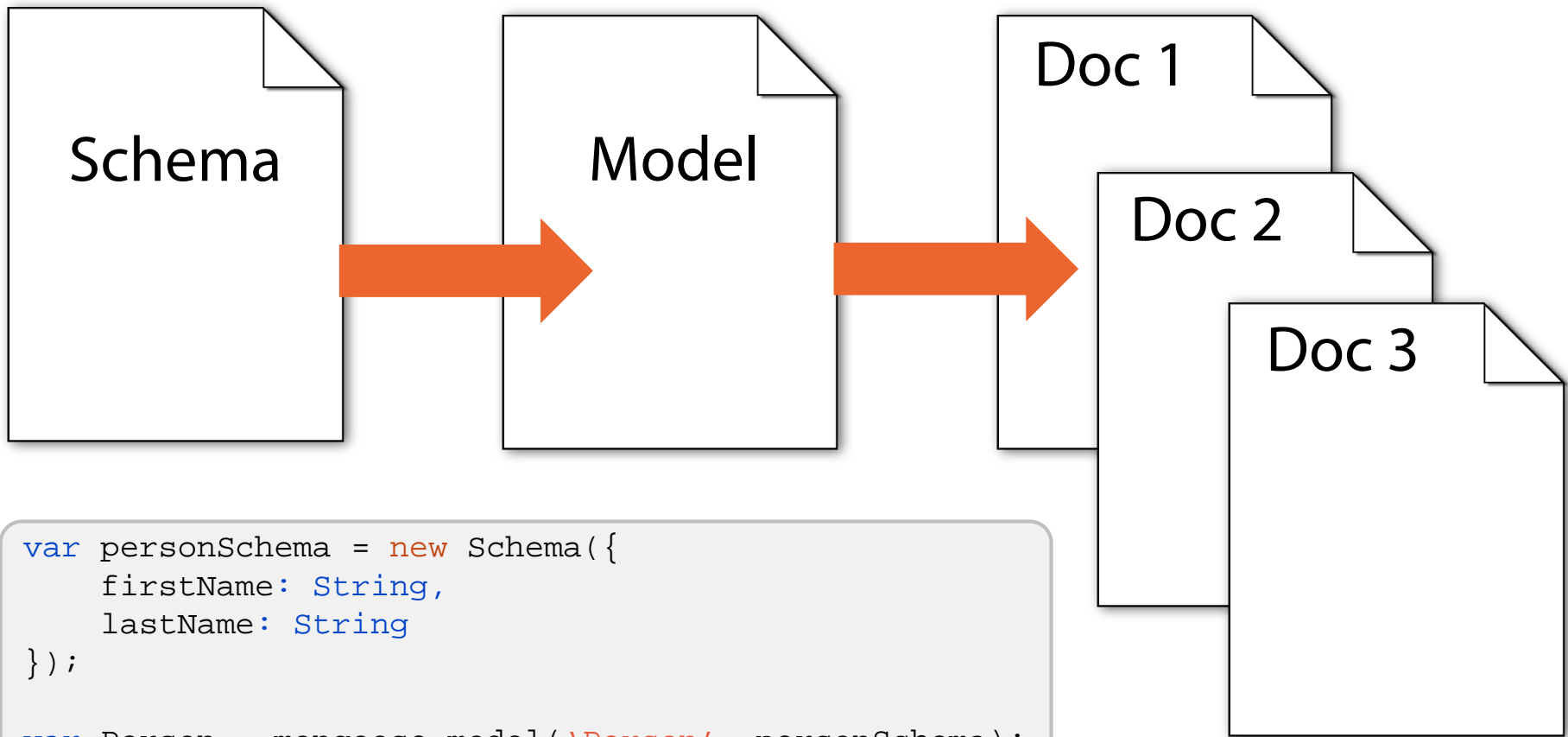
Mongoose Document

MongoDB Document

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```
var personSchema = new Schema({
  firstName: String,
  lastName: String
});

var Person = mongoose.model('Person', personSchema);

var bob = new Person({
  firstName: 'Bob',
  lastName: 'Doe'
});
```

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```

var mongoose = require('mongoose');
var Schema = mongoose.Schema;

// Pre-define sub-documents...
var subCategory = new Schema({
  name: String,
  description: String,
  isActive: Boolean });

var subAnswers = new Schema({
  answerText: String,
  isCorrect: Boolean,
  displayOrder: Number });

var subQuestions = new Schema({
  type: { type: String },
  text: String,
  answers: [ subAnswers ] });

// Define main document schema...
var quizSchema = new Schema({
  name: String,
  description: String,
  categories: [ subCategory ],
  questions: [ subQuestions ]
});

```

Sub-Documents

name
description
isActive

categories [...]

questions [...]

type
text

answers [...]

answerText
isCorrect
displayOrder

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```
// build Quiz model from schema
var Quiz = mongoose.model('Quiz',
quizSchema);

// document instance of model
var quiz1 = new Quiz({
  name: 'Favorite Things Quiz',
  description: 'Demo Quiz',
  categories: [{
    name: 'Favorites',
    description: 'Favorite
things quiz category',
    isActive: true }]

// abbreviated...
});

// save document...
quiz1.save(callback);
```

name
description
isActive

categories [...]
name
description
isActive

questions [...]

answers [...]

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```

var categories = [];
// Fill in the categories array
var cat1 = { name: 'Test1', description: 'Test 1 category', isActive: true };
var cat2 = { name: 'Test2', description: 'Test 2 category', isActive: true };

categories.push(cat1, cat2);

var questions = [];
// Add in some questions and answers...
var q1 = { type: 'Multiple-Choice', text: 'What is your favorite color?',
  answers: [
    { answerText: 'Red', isCorrect: false, displayOrder: 1 },
    { answerText: 'White', isCorrect: false, displayOrder: 2 },
    { answerText: 'Blue', isCorrect: true, displayOrder: 3 }
  ] };

var q2 = { type: 'Multiple-Choice', text: 'What is your favorite animal?',
  answers: [
    { answerText: 'Dog', isCorrect: true, displayOrder: 1 },
    { answerText: 'Cat', isCorrect: false, displayOrder: 2 },
    { answerText: 'Squirrel', isCorrect: false, displayOrder: 3 }
  ] };

questions.push(q1, q2);

// Create the parent quiz document - supply the categories and questions now...
var quiz2 = new Quiz({
  name: 'Example Quiz',
  description: 'Example Quiz long description...',
  categories: categories,
  questions: questions });

```

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Demo

Saving Documents



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Module Summary

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