Node.js MVC Construction

用Rabbit.js快速构建MVC应用

@芋头君

Rabbit.js

a fast and light mvc framework for Nodejs

https://github.com/xinyu198736/Rabbit.js
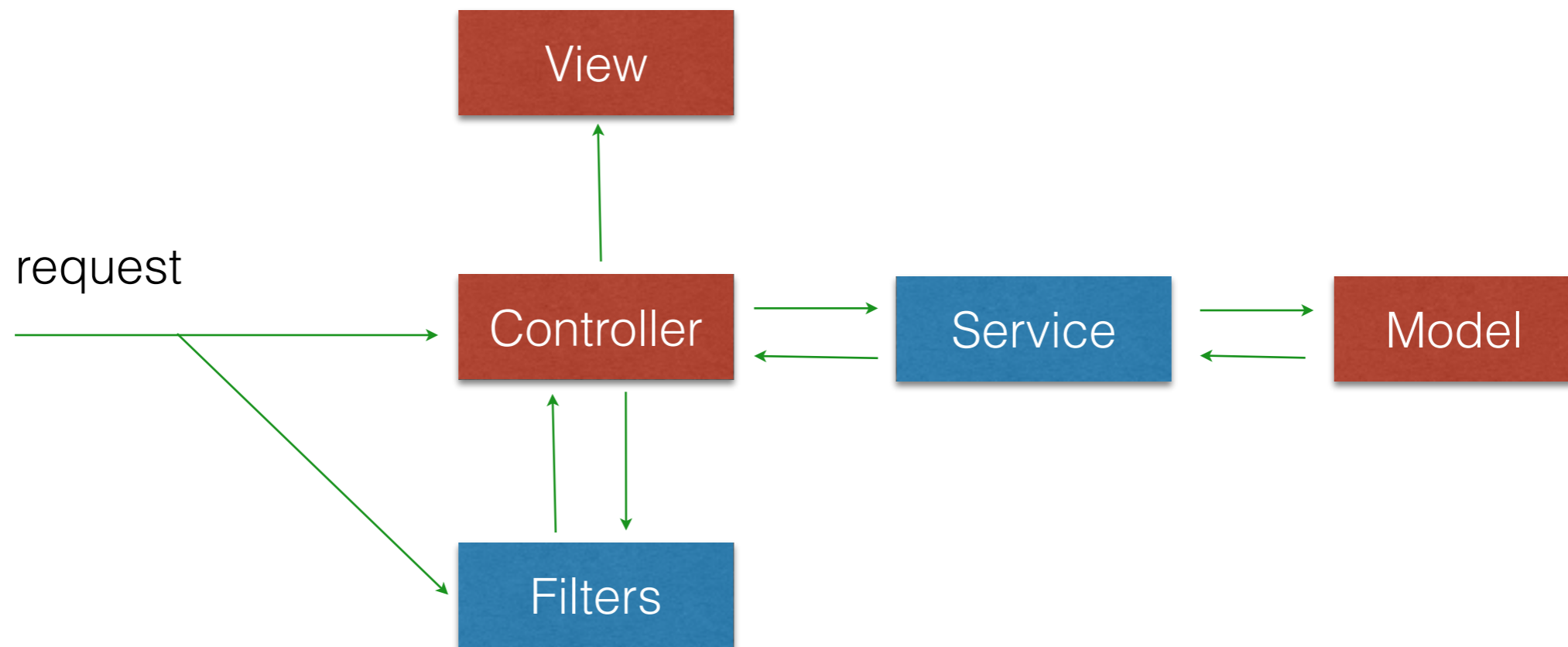
sudo npm install rabbitjs -g

FAST   LIGHT

why use it?

- light 轻量级，基于常用的库，快速学习

- fast development 约定大于配置,模式固定

- Multi-Layer Architecture 清晰的分层

- Database agnostic unified API for sql and nosql，base on ORM

Multi-Layer

Hello World

sudo npm install rabbitjs -g

rabbit create

npm install

node server.js
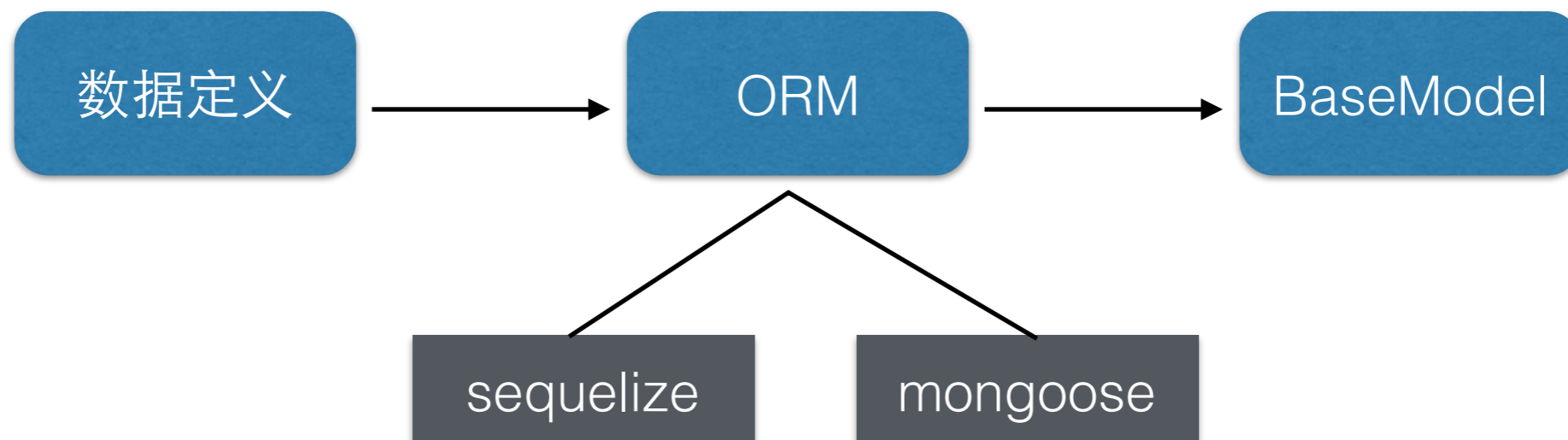
visit http://localhost:8080

Begin from Model

Database 数据库定义

Operation 数据操作

数据定义 → ORM → BaseModel

sequelize   mongoose

Mysql(teacher.js)

```javascript
module.exports = {
  id: {
    type: "int",
    autoIncrement: true,
    primaryKey: true
  },
  name: "varchar(255)",
  desc: "text",
  age: "int"
};
```

MongoDB(teacher.js)

```javascript
module.exports = {
  name: String,
  desc: String,
  age: Number
}
```

var Teacher = new BaseModel('teachers');

var Teacher = new BaseModel('teachers','mongo');

Promise 链式操作

```
var Teacher = new BaseModel('teachers');
//查询所有，带着条件
Teacher.getAll()
.where({id:{lt:3}})
.offset(0).limit(10)
.order({id:"desc"})
.fields(['id','name','age'])
.done(function(error,teachers){

})
```

抽取原生ORM对象

```
Teacher.Model
```

getAll   where
getById   offset
getByField   limit
                    fields
update   order
delete
count
add
addCount

Then Service

service 业务的抽象层

组合数据的访问

Keep controller clear

供不同的controller复用

车辆管理类

学生档案管理类

教师管理类

Controllers

请求分发

业务逻辑组合

渲染结果

Base on Express.js

Restfull

Auto Render Views

Auto generate routes by file structure

URL: http://localhost:8080/teacher/add

File System: controllers/teacher/index.js

```javascript
module.exports = {
    '/add':{
        get:function(){
            return function(req,res,next){
                next();
            }
        }
    }
}
```

rabbit controller -n teacher #创建controller模板

Filters

拆散的中间件 middleware

preFilter

前置过滤，前置检查

afterFilter

数据格式化，渲染前处理，jsonp兼容等

globalFilter

全局配置的filter，登录检查等

```
var service_teacher = loadService('teacher');
module.exports = {
    '/add':{
        get:function(){
            this.userFilter(['checkLogin']);
            this.userAfterFilter(['jsonp']);
            return function(req,res,next){
                service_teacher.add(req.query)
                .done(function(error,teacher){
                    if(error) next(error);
                    else next();
                });
            }
        }
    }
}
```

全局filter配置，filter.config.js

```
module.exports = {
    '/example/.*': {
        get: ['checkLogin']
    }
}
```

Views

- 默认 Jade 渲染

- res.render("teacher/add.jade") or auto render

- 从 res.locals中取数据。

- app.locals.moment = require("moment");

Others

Timing tasks

可配置的定时任务系统,crontab

plugin

用命令生成常用的功能，例如用户系统，表单验证等

scaffold

脚手架，根据model自动生成增删改查的代码和界面

Other MVC frameworks

Sails.js

like ruby on rails ,realtime framework

Geddy.js

A simple, structured web framework for Node

Express.js

much more base library，network framework

Thanks

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