## 技术栈

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| **技术体系** | **技术点** | **工具/框架** | **备注** |
| **NodeJS** | IDE | WebStorm |  |
| 编译器 | Babel |  |
| 打包工具 | WebPack |  |
| 压缩 | **compression** |  |
| JS版本 | ES6+ |  |
| 校验 |  |  |
| 包管理器 | Bower |  |
| 容器 | Express |  |
| 数据库访问 | Mongoose |  |
| 包管理器 | NVMW+NPM |  |
| 服务访问 | SuperAgent |  |
| 路由 | React-Router |  |
| 日志 | **Log4js** |  |
| 缓存 | **Ioredis,connect-redis** |  |
| 监控 |  |  |
| 异常 |  |  |
| 认证 | **Passport，passport-github** |  |
| 权限 |  |  |
| NoSQL | MongoDB |  |
| **过程管理** | 单元测试 | Mocha/pedding/should/supertest |  |
| 覆盖率 | Istanbul |  |
| 模拟框架 | Mm/Nock |  |
| 持续集成 |  |  |
| 代码风格 |  |  |
| **源码管理** | 版本控制 | GitHub |  |
| 代码混淆 |  |  |
| **关键技术** | 异步处理 | Async/Await |  |
| 前端框架 | Flux |  |
| 渲染方式 | 前后端共同渲染 |  |
| **上线部署** | 服务稳定性 | forever+Upstart+init.d |  |
| 静态资源处理 | Nginx |  |
| **其它** |  | **async** | 异步函数辅助 |
|  | **Ioredis** | Redis客户端 |
|  | **connect-redis** | A Redis Session store |
|  | **bcryptjs** | 加密 |
|  | **body-parser** |  |
|  | **loader-builder** | 编译、压缩、合并、签名 |
|  | **loader** | 静态资源加载器 |
|  | **lodash** | 数组、对象、数字、字符串、复合函数等 |
|  | **bytes** | 字符串、二进制相互转换 |
|  | **connect-busboy** | Connect middleware for busboy.Busboy is a node.js module for parsing incoming HTML form data. |
|  | **cookie-parser** | Cookie解析 |
|  | **express-session** | Create a session middleware with the given options. |
|  | **cors** | 跨域资源共享 |
|  | **csurf** | CSRF攻击防护 |
|  | **data2xml** | a data to XML converter |
|  | **xmlbuilder** | An XML builder |
|  | **ejs-mate** | layout, partial and block template |
|  | **eventproxy** | 事件式编程框架 |
|  | **helmet** | 通过设置Header来防护 |
|  | **jpush-sdk** | 与JPush Rest API 组件通信 |
|  | **markdown-it** | 富文本展示 |
|  | **memory-cache** | in-memory cache |
|  | **method-override** | Lets you use HTTP verbs such as PUT or DELETE in places where the client doesn’t support it. |
|  | **moment** | A lightweight JavaScript date library for parsing, validating, manipulating, and formatting dates. |
|  | **multiline** | 多行文本处理 |
|  | **node-uuid** | Simple, fast generation of RFC4122 UUIDS. |
|  | **nodemailer** | Send e-mails from Node.js – easy as cake |
|  | **nodemailer-smtp-transport** | Applies for Nodemailer v1.x and not for v0.x where transports are built-in. |
|  | **oneapm** | 浏览器性能监控 |
|  | **pm2** | PM2 is a production **process manager** for Node.js applications with a built-in **load balancer**. It allows you to keep applications **alive** **forever**, to reload them without downtime and to facilitate common system admin tasks. |
|  | **qn** | 七牛云存储 |
|  | **ready** | NodeJS mixin to add one-time ready event |
|  | **request** | Simplified HTTP client |
|  | **response-time** | records the response time for requests in HTTP servers. |
|  | **utility** | Md5,… |
|  | **validator** | A library of string validators and sanitizers. |
|  | **xss** | xss is a module used to filter input from users to prevent XSS attacks |
|  | **errorhandler** | Development-only error handler |
|  | **loader-connect** | 一个适配Connect/Express的静态资源加载器，它基于静态文件的文件扩展名来对源文件进行编译。  目前支持.less、.styl编译为CSS文件。.coffee、.es编译为普通的JavaScript文件。 |
|  | **nock** | Nock is an HTTP mocking and expectations library for Node.js |
|  | **Pedding** | Useful tools for unit test |
|  | **Should** | should is an expressive, readable, framework-agnostic assertion library. |
|  | **Supertest** | HTTP assertions made easy via super-agent. |
|  |  | **mm** | An simple but flexible mock(or say stub) package, mock mate. |

## 技巧

1. 将API路由和Web路由放在不同的文件中