

高仿“饿了吗”外卖 App

1. 准备

1.1. 项目描述

- 此项目为外卖 App 核心的**商家模块**的 **SPA**
- 包括商品、评论、商家介绍、购物车等多个子模块
- 使用 **Vuejs+ES6+Webpack** 等前端最新最热的技术
- 采用**模块化、组件化、工程化**的模式开发

1.2. 项目功能界面



04_商品页_商品详情



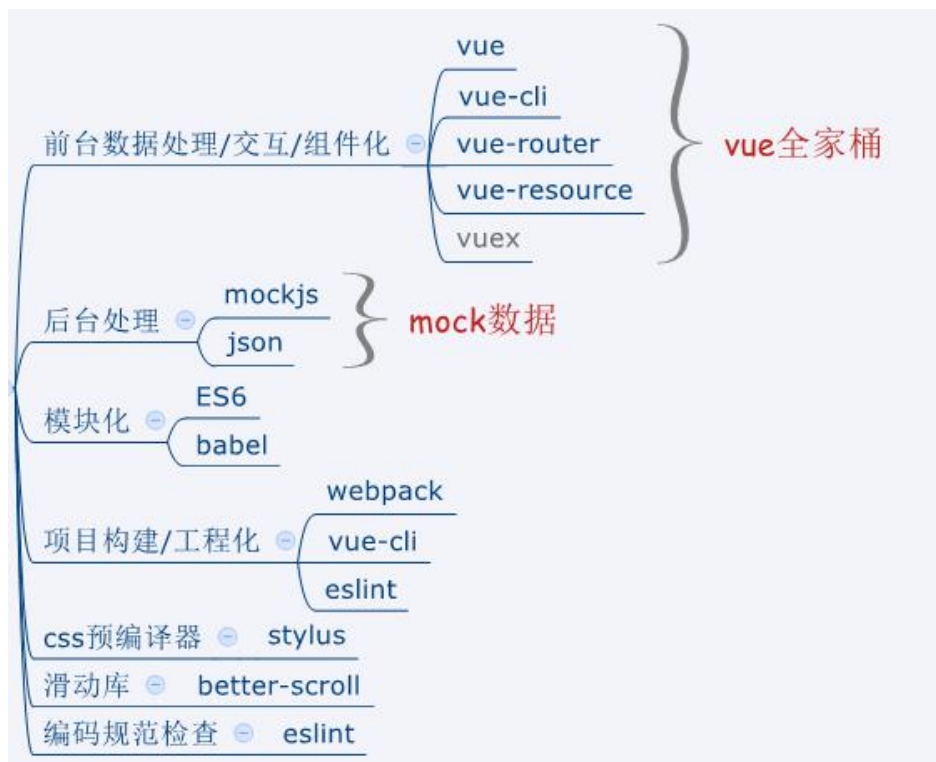
05_评论页



06_商家页



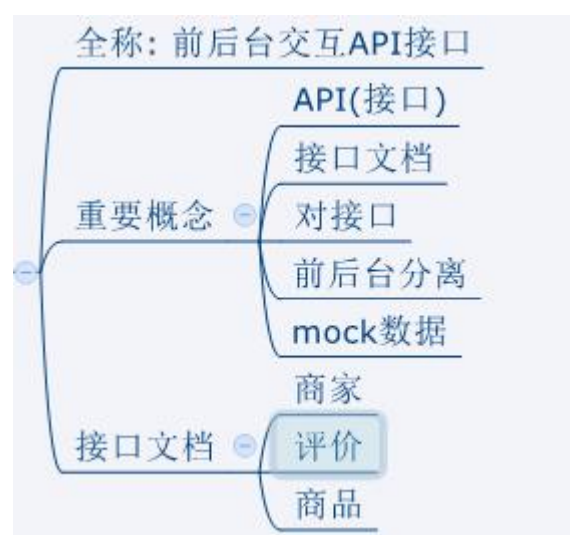
1.3. 技术选型



1.4. 前端路由



1.5. API 接口



1.6. vue 组件



01. app.vue

- * 应用的根组件

02. header.vue

- * 页面头部显示商家基本信息的组件

03. goods.vue

- * 商品分路由组件: 商品列表/购物车相关功能

04. ratings.vue

- * 评价分路由组件: 商品评价列表

05. seller.vue

- * 商家详情分路由组件: 显示商家详情

06. star.vue

- * 星级评价组件

07. food.vue

- * 商品列表组件: 显示商品分类/商品列表, 购物项加减

09. cartcontrol.vue

- * 购物项操作组件: 增加/减少某个购物项的数量

10. ratingselect.vue

- * 商品评论列表组件: 过滤查看商品评价列表

11. split.vue

- * 分隔线小组件

08. shopcart.vue

- * 底部购物车组件: 显示购物项列表及相关操作

1.7. 你能从此项目中学到什么?

● 流程及开发方法

- 了解一个项目的开发流程
- 学会组件化、模块化、工程化的开发模式
- 掌握使用 Vue-cli 脚手架初始化 Vue.js 项目
- 学会模拟 json 后端数据, 前后端分离开发
- 学会 es6+eslint 的开发方式

● 第三方组件

- 学会使用 stylus 编写模块化的 CSS
- 学会使用 vue-router 开发单页应用
- 学会使用 vue-resource 与后端数据交互
- 学会如何在 Vue.js 框架里和第三方 JS 插件交互

● 设计思想与模式

- 学会使用 Vue.js 的过渡编写酷炫的交互动画
- 了解移动端设备像素比的概念
- 学会制作并使用图标字
- 学会解决移动端 1px 边框问题
- 学会移动端经典的 css sticky footer 布局
- 学会 flex 弹性布局

2. 应用开发详解

2.1. 开启项目开发

1) 使用 **vue-cli**(脚手架)搭建项目

- Vue-cli 是 vue 官方提供的用于搭建基于 vue+webpack+es6 项目的脚手架工具
- 在线文档: <https://github.com/vuejs/vue-cli>
- 操作:

- `npm install -g vue-cli` : 全局下载工具
- `vue init webpack#1.0 vue_app` : 下载基于 webpack 模板项目
- `cd vue_app`
- `cyarn / npm install` : 下载项目依赖的所有模块
- `npm run dev`
- 访问: `localhost:8080`

```
C:\work\H5\Vue\project\code>vue init webpack#1.0 vue_app
A newer version of vue-cli is available.
latest: 2.5.1
installed: 2.4.0
? Project name vue_app
? Project description A Vue.js project
? Author zxfzxyrxf <zhangxiaofei@atguigu.com>
? Use ESLint to lint your code? Yes
? Pick an ESLint preset Standard
? Setup unit tests with Karma + Mocha? No 不使用单元测试,
? Setup e2e tests with Nightwatch? No 使用页面测试
vue-cli • Generated "vue_app".
```



Hello World!

Welcome to your Vue.js app!

To get a better understanding of how this boilerplate works, check out [its documentation](#). It is also recommended to go through the docs for [Webpack](#) and [vue-loader](#). If you have any issues with the setup, please file an issue at this boilerplate's [repository](#).

You may also want to checkout [vue-router](#) for routing and [vuex](#) for state management.

2) 项目结构分析

vue_app

```
|-- build : webpack 相关的配置文件夹(基本不需要修改)
    |-- dev-server.js : 通过 express 启动后台服务器
|-- config: webpack 相关的配置文件夹(基本不需要修改)
    |-- index.js: 指定的后台服务的端口号和静态资源文件夹
|-- node_modules
|-- src : 源码文件夹
    |-- components: vue 组件及其相关资源文件夹
    |-- app.vue: 应用根主组件
    |-- main.js: 应用入口 js
|-- static: 静态资源文件夹
|-- .babelrc: babel 的配置文件
|-- .editorconfig: 通过编辑器的编码/格式进行一定的配置
|-- .eslintignore: eslint 检查忽略的配置
|-- .eslintrc.js: eslint 检查的配置
|-- .gitignore: git 版本管制忽略的配置
|-- index.html: 主页面文件
|-- package.json: 应用包配置文件
|-- README.md: 应用描述说明的 readme 文件
```

3) 编码测试与打包发布项目

- 编码测试:
 - npm run dev
 - 访问: <http://localhost:8080>
 - 编码, 自动编译打包(HMR), 查看效果
- 打包发布
 - npm run build
 - npm install -g pushstate-server
 - pushstate-server dist
 - 访问: <http://localhost:9000>

2.2. 功能需求分析

- 演示项目功能, 对功能模块进行分析说明

2.3. 资源准备

1) 相关概念

- 标注图(设计稿): 对应用界面各个组成元素进行坐标/大小/颜色等进行标签的界面图
- 切图: 将应用界面的一些静态图形部分, 通过工具(如 photoshop)剪裁生成的图片

- 图片 Base64: 样式中引用的小图片, 在 webpack 打包会自动处理转换为样式内部的 Base64 编码字符串
- 2x 与 3x 图: 不同手机的屏幕密度不一样, 一般都在 2 以上(如 iphone6 为 2,iphone6s 为 3), 为了适配不同的手机, UI 设计师为同一个图片制作了 2x 和 3x 的 2 套图片(图形一样, 但大小不一样)

2) 图标字体制作

- 图标字体: 使用 IcoMoon 将 SVG 格式的图标转换生成图标字体及样式
- 进入 IcoMoon 官网: <https://icomoon.io/>
- 点击右上角 , 进入处理页面
- 点击左上角 , 选择 resource\SVG*.svg, 上传显示到页面
- 在页面选择所有 svg, 点击右下角  生成图标字体样式
- 点击左上角  指定 Font-Name 为 sell-icon, 点击右下角  下载到本地  [icomoon.zip](#)
- 解压 zip 包, 访问 demo.html 测试
- 我们项目需要的是 fonts 和 style.css

2.4. 项目源码目录设计

```
src
|-- common-----通用资源文件夹
|   |-- fonts -----字体资源文件夹(图标字体文件)
|   |-- js-----通用 js 文件夹
|   |-- stylus-----通用 stylus 文件夹
|       |-- font.styl-----图标字体样式
|-- components-----所有 vue 组件文件夹
|   |-- header-----头部组件文件夹
|       |-- header.vue-----前部组件 vue
|       |-- xxx.png-----头部相关的 n 个图标
|   |-- seller-----商家详情组件文件夹
|       |-- seller.vue-----商家详情组件 vue
|   |-- goods-----商品组件文件夹
|       |-- goods.vue-----商品组件 vue
|   |-- ratings-----评价组件文件夹
|       |-- ratings.vue-----评价组件 vue
|-- app.vue-----应用根组件 vue
|-- main.js-----应用入口 js
```


2.5. Stylus

1) 当前主流的三种 css 预编译器([对比](#))

- Less
- Sass
- Stylus

2) 安装 stylus 依赖包

- `npm install stylus stylus-loader --save-dev`

3) Stylus 的基本语法

- [stylus 中文版参考文档](#)

- **结构化:**

- ◆ 完全通过缩进控制, 不需要大括号和分号, 冒号是可选的

```
h1 {  
  color: #0982C1;  
}  
/* 省略花括号 */  
h1  
  color: #0982C1;  
/* 省略花括号和分号 */  
h1  
  color #0982C1
```

- **父级引用:**

- ◆ 使用字符&指向父选择器

```
textarea  
input  
  color #A7A7A7  
&:hover  
  color #000
```

等同于:

```
textarea,  
input {  
  color: #a7a7a7;  
}  
textarea:hover,  
input:hover {  
  color: #000;  
}
```

- **变量:**

- ◆ 定义变量: name=value 如: mainColor = #0982c1

- ◆ 引用变量: name 如: color mainColor
- ◆ name 可以没有前缀要求, 但最好以\$开头(好识别)

```
mainColor = #0982c1
siteWidth = 1024px
$borderStyle = dotted
body
    color mainColor
    border 1px $borderStyle mainColor
    max-width siteWidth
```

■ 混合(Mixins)

- ◆ 也就是预处理器中的函数
- ◆ 函数参数可以指定默认值
- ◆ 某段 CSS 样式要用到多个元素上, 只有其中的 1,2 个样式值有变化

```
error(borderWidth= 2px) {
    border: borderWidth solid #F00;
    color: #F00;
}
.generic-error {
    padding: 20px;
    margin: 4px;
    error(); /* 调用error mixins */
}
.login-error {
    left: 12px;
    position: absolute;
    top: 20px;
    error(5px); /* 调用error mixins, 并将参数$borderWidth的值指定为5px */
}
```

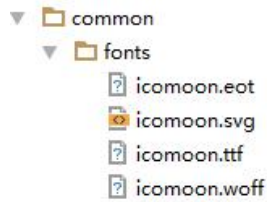
■ 导入(import)

- ◆ 通过@import 引入其它样式文件

```
@import "reset.css";
@import "file. {type} ";
p {
    background: #0982C1;
}
```

4) 将 font 字体及样式加入

- 将 icomoon\fonts\下所有文件拷贝到 src\common\fonts 目录下



- 将 iconmoon\style.css 拷贝到 src\common\stylus\下, 重命名为 **font.styl**
- 去除文件中的大括号和分号, 并修正 url 路径

```
@font-face {
  font-family: 'sell-icon'
  src: url('../fonts/sell-icon.eot?q98quz')
  src: url('../fonts/sell-icon.eot?q98quz#iefix') format('embedded-opentype'),
    url('../fonts/sell-icon.ttf?q98quz') format('truetype'),
    url('../fonts/sell-icon.woff?q98quz') format('woff'),
    url('../fonts/sell-icon.svg?q98quz#sell-icon') format('svg')
  font-weight: normal
  font-style: normal
}

[class^="icon-"], [class*=" icon-"] {
  /* use !important to prevent issues with browser extensions that change fonts */
  font-family: 'sell-icon' !important
  speak: none
  font-style: normal
  font-weight: normal
  font-variant: normal
  text-transform: none
  line-height: 1

  /* Better Font Rendering ===== */
  -webkit-font-smoothing: antialiased
  -moz-osx-font-smoothing: grayscale
}

.icon-add_circle:before {
  content: "\e900"
}

.icon-arrow_lift:before {
  content: "\e901"
}

.icon-check_circle:before {
  content: "\e902"
}

.icon-close:before {
```

```

    content: "\e903"
  }
  .icon-favorite:before {
    content: "\e904"
  }
  .icon-keyboard_arrow_right:before {
    content: "\e905"
  }
  .icon-remove_circle_outline:before {
    content: "\e906"
  }
  .icon-shopping_cart:before {
    content: "\e907"
  }
  .icon-thumb_down:before {
    content: "\e908"
  }
  .icon-thumb_up:before {
    content: "\e909"
  }
}

```

5) 其它基础 stylus 样式

● base.styl

```

html, body
  font-family: 'PingFang SC', 'STHeitiSC-Light', 'Helvetica-Light', arial, sans-serif

@media (min-device-pixel-ratio: 2), (-webkit-min-device-pixel-ratio: 2)
  .border-1px
    &::after
      transform: scaleY(0.5)
      -webkit-transform: scaleY(0.5)
@media (min-device-pixel-ratio: 3), (-webkit-min-device-pixel-ratio: 3)
  .border-1px
    &::after
      transform: scaleY(0.3333333333333333)
      -webkit-transform: scaleY(0.3333333333333333)

.clearfix
  zoom: 1

```

```
&:after
  content:''
  display:block
  clear:both
  height:0
  line-height:0
  visibility:hidden
```

● Mixin.styl

```
// 混合: 把混合底下的样式集原封不动的搬到调用处
border-1px($color)
  position: relative
  &:after
    position: absolute
    left: 0
    bottom: 0
    content: ""
    display: block
    border-top: 1px solid $color
    width: 100%

bg-image($url)
  background-image: url($url + "@2x.png")
  @media (min-device-pixel-ratio: 3), (-webkit-min-device-pixel-ratio: 3)
    background-image: url($url + "@3x.png")
```

● index.styl

```
@import "style.styl"
@import "base.styl"
```

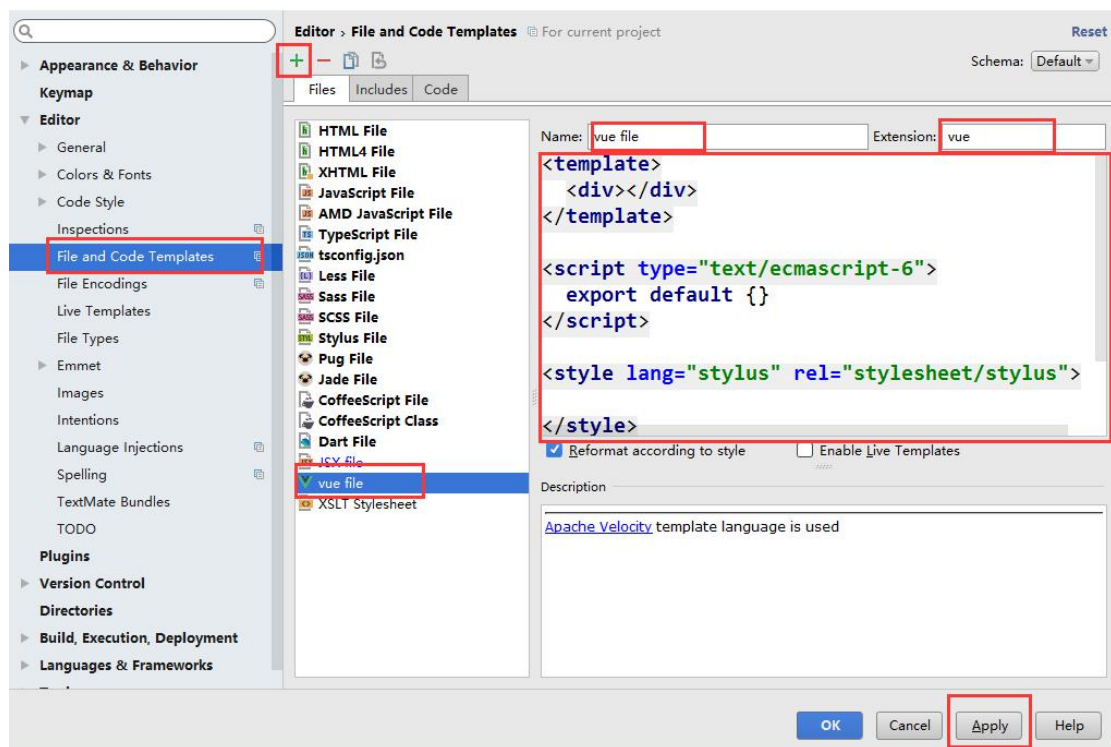
2.6. ESLint

- ESLint 是一个代码规范检查工具
- 基本已替代以前的 JSLint
- ESLint 提供以下支持
 - ◆ ES6
 - ◆ AngularJS
 - ◆ JSX

- ◆ Style 检查
- ◆ 自定义错误和提示
- ESLint 提供以下几种校验
 - ◆ 语法错误校验
 - ◆ 不重要或丢失的标点符号，如分号
 - ◆ 没法运行到的代码块（使用过 WebStorm 的童鞋应该了解）
 - ◆ 未被使用的参数提醒
 - ◆ 漏掉的结束符，如}
 - ◆ 确保样式的统一规则，如 sass 或者 less
 - ◆ 检查变量的命名
- 规则的错误等级有三种
 - ◆ 0：关闭规则。
 - ◆ 1：打开规则，并且作为一个警告（不影响 exit code）。
 - ◆ 2：打开规则，并且作为一个错误（exit code 将会是 1）。
- 相关配置文件
 - ◆ .eslintrc.js：规则相关配置文件，可以在此修改规则
 - ◆ .eslintignore：指令检查忽略的文件，可以在此添加想忽略的文件

2.7. Vue 组件化

1) 配置 vue 组件文件模板



2) 分析应用的整体 vue 组件结构

```
src
|-- components-----所有 vue 组件文件夹
    |-- header-----头部组件文件夹
        |-- header.vue-----头部组件 vue
        |-- xxx.png-----头部相关的 n 个图标
    |-- seller-----商家详情组件文件夹
        |-- seller.vue-----商家详情组件 vue
    |-- goods-----商品组件文件夹
        |-- goods.vue-----商品组件 vue
    |-- ratings-----评价组件文件夹
        |-- ratings.vue-----评价组件 vue
    |-- app.vue-----应用根组件 vue
    |-- main.js-----应用入口 js
```

3) 各个 vue 组件的基本代码

● header.vue

```
<template>
  <div>header vue template</div>
</template>

<script>
  export default {}
</script>

<style lang="stylus" rel="stylesheet/stylus">

</style>
```

● goods.vue

```
<template>
  <div>goods vue template</div>
</template>

<script>
  export default {}
</script>

<style lang="stylus" rel="stylesheet/stylus">
```



```
</style>
```

- ratings.vue

```
<template>
  <div>ratings vue template</div>
</template>

<script>
  export default {}
</script>

<style lang="stylus" rel="stylesheet/stylus">

</style>
```

- seller.vue

```
<template>
  <div>seller vue template</div>
</template>

<script>
  export default {}
</script>

<style lang="stylus" rel="stylesheet/stylus">

</style>
```

- app.vue

```
<template>
  <div>app vue template</div>
</template>

<script>
  export default {}
</script>

<style lang="stylus" rel="stylesheet/stylus">

</style>
```

- main.js

```
import Vue from 'vue'
import App from './App'

/* eslint-disable no-new */
new Vue({
  el: 'body',
  components: { App }
})
```

2.8. 引入 vue-router

1) 下载 vue-router

- `npm install vue-router@0.7.13 --save`

2) 编码

- main.js

```
import Vue from 'vue'
import VueRouter from 'vue-router'

import app from './app'
import goods from './components/goods/goods'
import ratings from './components/ratings/ratings'
import seller from './components/seller/seller'

// 声明使用 vue 的扩展插件
Vue.use(VueRouter)
// 创建 router 对象
let router = new VueRouter()
// 映射路由
router.map({
  '/goods': {
    component: goods
  },
  '/ratings': {
    component: ratings
  }
})
```

```

    },
    '/seller': {
      component: seller
    }
  })
// 启动路由
router.start(app, '#app')
// 请求默认路由
router.go('/goods')

```

● app.vue

```

<template>
  <div>
    <!-- 头部组件标签-->
    <v-header></v-header>
    <!-- 包含3个路由v-link-->
    <div class="tab">
      <div class="tab-item">
        <a v-link="{path: '/goods'}">商品</a>
      </div>
      <div class="tab-item">
        <a v-link="{path: '/ratings'}">评价</a>
      </div>
      <div class="tab-item">
        <a v-link="{path: '/seller'}">商家</a>
      </div>
    </div>
    <!-- 各路由template 页面容器-->
    <router-view></router-view>
  </div>
</template>

<script>
  import header from './components/header/header'

  export default {
    // 配置组件
    components: {
      'v-header': header
    }
  }
</script>

<style lang="stylus" rel="stylesheet/stylus">

```

```
.tab
.tab-item
  display inline-block
.v-link-active
  color: #ff0000
</style>
```

● index.html

```
<body>
  <div id="app"></div>
  <!-- built files will be auto injected -->
</body>
```

3) 引入 reset 样式

● static/css/reset.css

```
/**
 * Eric Meyer's Reset CSS v2.0 (http://meyerweb.com/eric/tools/css/reset/)
 * http://cssreset.com
 */
html, body, div, span, applet, object, iframe,
h1, h2, h3, h4, h5, h6, p, blockquote, pre,
a, abbr, acronym, address, big, cite, code,
del, dfn, em, img, ins, kbd, q, s, samp,
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
dl, dt, dd, ol, ul, li,
fieldset, form, label, legend,
table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed,
figure, figcaption, footer, header,
menu, nav, output, ruby, section, summary,
time, mark, audio, video, input {
  margin: 0;
  padding: 0;
  border: 0;
  font-size: 100%;
  font-weight: normal;
  vertical-align: baseline;
}
```

```

/* HTML5 display-role reset for older browsers */
article, aside, details, figcaption, figure,
footer, header, menu, nav, section {
    display: block;
}

body {
    line-height: 1;
}

blockquote, q {
    quotes: none;
}

blockquote:before, blockquote:after,
q:before, q:after {
    content: none;
}

table {
    border-collapse: collapse;
    border-spacing: 0;
}

/* custom */
a {
    color: #7e8c8d;
    text-decoration: none;
    -webkit-backface-visibility: hidden;
}

li {
    list-style: none;
}

::-webkit-scrollbar {
    width: 5px;
    height: 5px;
}

::-webkit-scrollbar-track-piece {
    background-color: rgba(0, 0, 0, 0.2);
    -webkit-border-radius: 6px;
}

```

```

}

::-webkit-scrollbar-thumb:vertical {
  height: 5px;
  background-color: rgba(125, 125, 125, 0.7);
  -webkit-border-radius: 6px;
}

::-webkit-scrollbar-thumb:horizontal {
  width: 5px;
  background-color: rgba(125, 125, 125, 0.7);
  -webkit-border-radius: 6px;
}

html, body {
  width: 100%;
}

body {
  -webkit-text-size-adjust: none;
  -webkit-tap-highlight-color: rgba(0, 0, 0, 0);
}

```

- index.html 中引入

```
<link rel="stylesheet" href="static/css/reset.css">
```

4) 添加 viewport

- index.html

```

<meta name="viewport"
content="width=device-width,initial-scale=1.0,maximum-scale=1.0,minimum-scale=1.0,user-scalable=no">

```

5) 运行效果

```

header vue template
商品 评价 商家
goods vue template

```

```

header vue template
商品 评价 商家
ratings vue template

```

```

header vue template
商品 评价 商家
seller vue template!

```

2.9. 选项卡效果

1) 说明

- 3 个选项水平平均分配文字居中: flex 布局
- 点击 Item 的整个区域都要能响应, 而不仅是文本区: display block
- 选项底部一个像素高度的横线: after 伪类 + @media 缩放

2) 编码

● main.js

```
import './common/stylus/index.styl'
```

● app.vue

```
<div class="tab border-1px">

<style lang="stylus" rel="stylesheet/stylus">
  @import "../common/stylus/mixin.styl"

  .tab
    display: flex
    width: 100%
    height: 40px
    line-height: 40px
    // border-bottom: 1px solid rgba(7, 17, 27, 0.1)
    border-1px(rgba(7, 17, 27, 0.1))
  .tab-item
    flex: 1
    text-align: center
    & > a
      display: block
      font-size: 14px
      color: rgb(77, 85, 93)
    &.active
      color: rgb(240, 20, 20)
</style>
```


2.10. 模拟(mock)数据

1) Web 应用前后端(台)分离:

- 后台向前台提供 API 接口, 只负责数据的提供和计算, 而完全不处理展现
- 前台通过 Http(Ajax)请求获取数据, 在浏览器端动态构建界面显示数据

2) 设计 JSON 数据结构

- 理解 JSON 数据结构
- 编写模拟 JSON 数据: src/mock/data.json

3) 利用 Node+express 提供模拟数据

- build/dev-server.js

```
//加载 json 数据
var apiData = require('../src/mock/data.json')
var seller = apiData.seller;
var goods = apiData.goods;
var ratings = apiData.ratings;
//得到路由器
var apiRouter = express.Router()
//注册路由
apiRouter.get('/seller', function (req, res) {
  res.json({
    errno: 0,    //0 代表正确数据
    data: seller
  })
})
apiRouter.get('/goods', function (req, res) {
  res.json({
    errno: 0,
    data: goods
  })
})
apiRouter.get('/ratings', function (req, res) {
  res.json({
    errno: 0,
    data: ratings
  })
})
```

```
// 启用路由
app.use('/api', apiRouter)
```

问题: 如果是打包发布就无法访问模拟数据, 只能是测试时使用

4) 利用 mockjs 提供模拟数据

- Mockjs: 用来拦截 ajax 请求, 生成随机数据返回
- 学习
 - <http://mockjs.com/>
 - <https://github.com/nuysoft/Mock>
- 下载: **npm install mockjs --save**
- 使用

```
import apiData from './data.json'
import Mock from 'mockjs' //npm install mockjs --save
Mock.mock('/api2/seller', {errno:0, data:apiData.seller})
Mock.mock('/api2/goods', {errno:0, data:apiData.goods})
Mock.mock('/api2/ratings', {errno:0, data:apiData.ratings})
```

好处: 打包发布运行模拟接口也是可以用的, 这样便于大家演示

5) 使用 postman 工具测试接口

- postman 是用来测试 API 接口的 chrome 插件
- postman 也是一个活接口文档

6) 引入 vue-resource 访问 mock 数据接口

- vue-resource 是 vue 项目中 ajax 请求库
- 官网: <https://github.com/pagekit/vue-resource>
- 下载: **npm install vue-resource --save**
- 使用示例:

```
import VueResource from 'vue-resource'
Vue.use(VueResource)
//组件对象多了$http属性, 使用它发送 ajax 请求
this.$http.get('/api/goods').then((response) => {
  console.log(response.body)
}, (response) => {
  console.log('失败了')
})
```

2.11. 开发 header 组件

1) 在 app.vue 中请求获取商家数据，并传递给 header 组件

```
<v-header :seller="seller"></v-header>

data() {
  return {
    seller: {}
  }
},

created () {
  this.$http.get('/api/seller').then((response) => {
    const result = response.body
    console.log(result)
    if(result.errno === OK) {
      this.seller = result.data
    }
  })
}
```

2) header 组件样式

```
<style lang="stylus" rel="stylesheet/stylus">
  @import "../common/stylus/mixin.styl"

  .header
    position: relative
    color: rgb(255, 255, 255)
    overflow: hidden
    background-color: rgba(7, 17, 27, 0.5)
    .content-wrapper
      position: relative
      padding 24px 12px 18px 24px
      font-size: 0
      .avatar
        display: inline-block
        vertical-align: top
      .content
        display: inline-block
```

```
margin-left: 16px
.title
margin: 2px 0 8px 0
.brand
margin-right: 6px
vertical-align: top
bg-image(brand)
display: inline-block
width: 30px
height: 18px
background-size: 30px 18px
background-repeat: no-repeat
.name
font-size: 16px
line-height: 18px
font-weight: bold
.description
font-size: 12px
font-weight: 200
line-height: 12px
.support
margin: 10px 0 2px 0
.icon
margin-right: 4px
vertical-align: top
display: inline-block
width: 12px
height: 12px
background-size: 12px 12px
background-repeat: no-repeat
&.decrease
bg-image(decrease_1)
&.discount
bg-image(discount_1)
&.guarantee
bg-image(guarantee_1)
&.invoice
bg-image(invoice_1)
&.special
bg-image(special_1)
.text
font-size: 10px
font-weight: 200
line-height: 12px
```

```

.supports_count
  position: absolute
  right: 12px
  bottom: 15px
  height: 24px
  padding: 7px 8px
  border-radius: 8px
  background-color: rgba(0,0,0,0.2)
  box-sizing: border-box
.count
  vertical-align: top
  font-size: 10px
  line-height: 12px
  font-weight: 200
  margin-right: 2px
.icon-keyboard_arrow_right
  font-size: 10px
  line-height: 12px
  font-weight: 200
.bulletin-wrapper
  background-color: rgba(7,17,27,0.2)
  position: relative
  padding: 0 20px 0 12px
  overflow: hidden
  text-overflow: ellipsis
  white-space: nowrap
  display: block
.bulletin-title
  vertical-align: middle
  display: inline-block
  width: 22px
  height: 12px
  bg-image(bulletin)
  background-size: 100% 100%
  background-repeat: no-repeat
.bulletin-text
  font-size: 10px
  line-height: 28px
.icon-keyboard_arrow_right
  position: absolute
  right: 12px
  bottom: 9px
  font-size: 10px

```

```

.background
  position: absolute
  left: 0
  top: 0
  width: 100%
  height: 100%
  z-index: -1
  img
    filter: blur(10px)
.detail
  position: fixed
  left: 0
  top: 0
  z-index: 100
  width: 100%
  height: 100%
  background: rgba(7, 17, 27, 0.8)
  overflow: auto
  transition: .5s
  backdrop-filter: blur(10px)
&.fade-transition
  opacity: 1
&.fade-enter, &.fade-leave
  opacity: 0
.detail-wrapper
  display: inline-block
  width: 100%
  min-height: 100%
  .detail-main
    margin-top: 64px
    padding-bottom: 64px
    .name
      text-align: center
      font-size: 16px
      line-height: 16px
      font-weight: 700
    .star-wrapper
      margin-top: 16px
      text-align: center
    .title
      display: flex
      width: 80%
      margin: 28px auto 24px
    .text

```

```

        text-align:center
        padding: 0 12px
    .line
        flex:1
        position:relative
        top:-6px
        border-bottom:2px solid rgba(255, 192, 203,0.3)

    .supports
        width:80%
        padding:0 12px
        margin:0 auto
    .support
        margin-bottom:12px
        &:last-child
            margin-bottom:0
    .icon
        display:inline-block
        width: 16px
        height: 16px
        background-size: 16px 16px
        background-repeat:no-repeat
        vertical-align:top
        margin-right:6px
        &.discount
            bg-image(discount_2)
        &.decrease
            bg-image(decrease_2)
        &.guarantee
            bg-image(guarantee_2)
        &.invoice
            bg-image(invoice_2)
        &.special
            bg-image(special_2)

    .text
        font-size:12px
        line-height: 12px
        font-weight:200

    .content
        width:80%
        padding:0 12px

```



```
margin: 0 auto
font-size: 12px
line-height: 24px
font-weight: 200

.detail-close
margin-top: -64px
clear: both
text-align: center
.icon-close
display: inline-block
width: 32px
height: 32px
font-size: 32px
</style>
```

3) 图片资源

brand@3x.png
bulletin@2x.png
bulletin@3x.png
decrease_1@2x.png
decrease_1@3x.png
decrease_2@2x.png
decrease_2@3x.png
discount_1@2x.png
discount_1@3x.png
discount_2@2x.png
discount_2@3x.png
guarantee_1@2x.png
guarantee_1@3x.png
guarantee_2@2x.png
guarantee_2@3x.png
invoice_1@2x.png
invoice_1@3x.png
invoice_2@2x.png
invoice_2@3x.png
special_1@2x.png
special_1@3x.png
special_2@2x.png
special_2@3x.png

4) 显示头部基本信息

```
<template>
  <div class="header">
    <div class="content-wrapper">
      <div class="avatar">
        
      </div>
      <div class="content">
        <div class="title">
          <span class="brand"></span>
          <span class="name">{{seller.name}}</span>
        </div>
        <div class="description">
          {{seller.description}}/{{seller.deliveryTime}}分钟到达
        </div>
        <div class="support" v-if="seller.supports">
          <span class="icon" :class="classMap[seller.supports[0].type]"></span>
          <span class="text">{{seller.supports[0].description}}</span>
        </div>
      </div>
      <div class="supports_count" v-if="seller.supports">
        <span class="count">{{seller.supports.length}}个</span>
        <span class="icon-keyboard_arrow_right"></span>
      </div>
    </div>
    <div class="bulletin-wrapper">
      <span class="bulletin-title"></span>
      <span class="bulletin-text">{{seller.bulletin}}</span>
      <i class="icon-keyboard_arrow_right"></i>
    </div>
    <div class="background">
      
    </div>
    <div class="detail" v-show="false"></div>
  </div>
</template>

<script type="text/ecmascript-6">
  export default{
    props: {
      seller: {
        type: Object
      }
    }
  }
</script>
```

```

    }
  },

  created () {
    this.classMap = ["decrease", "discount", "guarantee", "invoice", "special"]
  }
}
</script>

```

5) 显示/隐藏优惠和公告详情

```

<template>
  <div class="header">
    <div class="content-wrapper">
      <div class="avatar">
        
      </div>
      <div class="content">
        <div class="title">
          <span class="brand"></span>
          <span class="name">{{seller.name}}</span>
        </div>
        <div class="description">
          {{seller.description}}/{{seller.deliveryTime}}分钟到达
        </div>
        <div class="support" v-if="seller.supports">
          <span class="icon" :class="classMap[seller.supports[0].type]"></span>
          <span class="text">{{seller.supports[0].description}}</span>
        </div>
      </div>
      <div class="supports_count" v-if="seller.supports" @click="showDetail(true)">
        <span class="count">{{seller.supports.length}}个</span>
        <span class="icon-keyboard_arrow_right"></span>
      </div>
    </div>
    <div class="bulletin-wrapper" @click="showDetail(true)">
      <span class="bulletin-title"></span>
      <span class="bulletin-text">{{seller.bulletin}}</span>
      <i class="icon-keyboard_arrow_right"></i>
    </div>
    <div class="background">
      
    </div>
  </div>
</template>

```

```

</div>
<div class="detail" v-show="detailShow">
  <div class="detail-wrapper">
    <div class="detail-main clearfix">
      <div class="name">{{seller.name}}</div>
      <div class="star-wrapper">star 组件内容</div>
      <div class="title">
        <div class="line"></div>
        <div class="text">优惠信息</div>
        <div class="line"></div>
      </div>
      <ul class="supports" v-if="seller.supports">
        <li class="support" v-for="item in seller.supports">
          <span class="icon" :class="classMap[item.type]"></span>
          <span class="text">{{item.description}}</span>
        </li>
      </ul>
      <div class="title">
        <div class="line"></div>
        <div class="text">商家公告</div>
        <div class="line"></div>
      </div>
      <div class="content">
        <p>{{seller.bulletin}}</p>
      </div>
    </div>
  </div>
  <div class="detail-close" @click="showDetail(false)">
    <span class="icon-close"></span>
  </div>
</div>
</div>
</template>

<script type="text/ecmascript-6">
  export default{
    props: {
      seller: {
        type: Object
      }
    },

    data () {
      return {

```

```
        detailShow: false
    },
    created () {
        this.classMap = ["decrease", "discount", "guarantee", "invoice", "special"]
    },
    methods: {
        showDetail (isShow) {
            this.detailShow = isShow
        }
    }
}
</script>
```

2.12. 开发 star 组件

1) 图片

```
star24_half@2x.png
star24_half@3x.png
star24_off@2x.png
star24_off@3x.png
star24_on@2x.png
star24_on@3x.png
star36_half@2x.png
star36_half@3x.png
star36_off@2x.png
star36_off@3x.png
star36_on@2x.png
star36_on@3x.png
star48_half@2x.png
star48_half@3x.png
star48_off@2x.png
star48_off@3x.png
star48_on@2x.png
star48_on@3x.png
```

2) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">
  @import "../common/stylus/mixin.styl"

  .star
    font-size: 0
    .star-item
      display: inline-block
      background-repeat: no-repeat
    &.star-48
      .star-item
        width: 20px
        height: 20px
        margin-right: 22px
        background-size: 20px 20px
        &:last-child
          margin-right: 0
        &.on
          bg-image('star48_on')
        &.half
          bg-image('star48_half')
        &.off
          bg-image('star48_off')
    &.star-36
      .star-item
        width: 15px
        height: 15px
        margin-right: 6px
        background-size: 15px 15px
        &:last-child
          margin-right: 0
        &.on
          bg-image('star36_on')
        &.half
          bg-image('star36_half')
        &.off
          bg-image('star36_off')
    &.star-24
      .star-item
        width: 10px
        height: 10px
        margin-right: 3px
```

```

background-size: 10px 10px
&:last-child
  margin-right: 0
&.on
  bg-image('star24_on')
&.half
  bg-image('star24_half')
&.off
  bg-image('star24_off')
</style>

```

3) 页面模板

```

<template>
  <div class="star" :class="'star-'+size">
    <span class="star-item" v-for="item in starClasses"
      :class="item" track-by="$index"></span>
  </div>
</template>

```

4) JS

```

<script type="text/ecmascript-6">
  const LENGTH = 5
  const CLASS_ON = 'on'
  const CLASS_HALF = 'half'
  const CLASS_OFF = 'off'

  export default{
    props: {
      score: {
        type: Number
      },
      size: {
        type: Number
      }
    },
    computed: {
      starClasses () {
        const scs = []

```



```

    const score = this.score
    // 去除小数部分求整
    const scoreInteger = Math.floor(score)
    for (let i = 0; i < scoreInteger; i++) {
        scs.push(CLASS_ON)
    }
    if(score-scoreInteger>=0.5) {
        scs.push(CLASS_HALF)
    }
    while(scs.length<LENGTH) {
        scs.push(CLASS_OFF)
    }

    return scs
}
}
}
</script>

```

5) 使用组件标签

```

//使用组件标签，传递属性数据
<star :score="seller.score" :size="48"></star>
//引入依赖组件模块
import star from '../star/star'
//定义组件标签
components: {
    star
}

```

2.13. 开发 goods 组件

1) 说明

- goods 组件是一个较复杂的路由组件
- 内部使用了另外 3 个组件
 - Shopcart: 购物车组件

- Cartcontrol: 购物车操作组件
- food: 食品详情组件
- 使用第三方库 better-scroll: UI 滑动

2) 图片资源

```
special_3@2x.png
invoice_3@3x.png
guarantee_3@3x.png
discount_3@2x.png
invoice_3@2x.png
guarantee_3@2x.png
decrease_3@3x.png
decrease_3@2x.png
discount_3@3x.png
special_3@3x.png
```

3) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">
  @import "../common/stylus/mixin.styl"

  .goods
    display: flex
    position: absolute
    top: 174px
    bottom: 46px
    width: 100%
    overflow: hidden
  .menu-wrapper
    flex: 0 0 80px
    width: 80px
    background: #f3f5f7
  .menu-item
    display: table
    height: 54px
    width: 56px
    padding: 0 12px
    line-height: 14px
  &.current
    position: relative
    z-index: 10
```

```

margin-top: -1px
background: #fff
font-weight: 700
.text
    border-none()
.icon
    display: inline-block
    vertical-align: top
    width: 12px
    height: 12px
    margin-right: 2px
    background-size: 12px 12px
    background-repeat: no-repeat
    &.decrease
        bg-image('decrease_3')
    &.discount
        bg-image('discount_3')
    &.guarantee
        bg-image('guarantee_3')
    &.invoice
        bg-image('invoice_3')
    &.special
        bg-image('special_3')
.text
    display: table-cell
    width: 56px
    vertical-align: middle
    border-1px(rgba(7, 17, 27, 0.1))
    font-size: 12px
.foods-wrapper
    flex: 1
    .title
        padding-left: 14px
        height: 26px
        line-height: 26px
        border-left: 2px solid #d9dde1
        font-size: 12px
        color: rgb(147, 153, 159)
        background: #f3f5f7
    .food-item
        display: flex
        margin: 18px
        padding-bottom: 18px
        border-1px(rgba(7, 17, 27, 0.1))

```

```
&:last-child
  border-none()
  margin-bottom: 0
.icon
  flex: 0 0 57px
  margin-right: 10px
.content
  flex: 1
.name
  margin: 2px 0 8px 0
  height: 14px
  line-height: 14px
  font-size: 14px
  color: rgb(7, 17, 27)
.desc, .extra
  line-height: 10px
  font-size: 10px
  color: rgb(147, 153, 159)
.desc
  line-height: 12px
  margin-bottom: 8px
.extra
  .count
    margin-right: 12px
.price
  font-weight: 700
  line-height: 24px
.now
  margin-right: 8px
  font-size: 14px
  color: rgb(240, 20, 20)
.old
  text-decoration: line-through
  font-size: 10px
  color: rgb(147, 153, 159)
.cartcontrol-wrapper
  position: absolute
  right: 0
  bottom: 12px
```

```
</style>
```

4) 页面模板

```
<template>
  <div class="goods">
    <div class="menu-wrapper" v-el:menu-wrapper>
      <ul>
        <li class="menu-item" v-for="item in goods"
          :class="{current:currentIndex===index}"
          @click="clickMenuItem(index,$event)">
          <span class="text border-1px">
            <span class="icon"
              v-if="item.type>0" :class="classMap[item.type]"></span>{{item.name}}
            </span>
          </li>
        </ul>
      </div>
      <div class="foods-wrapper" v-el:foods-wrapper>
        <ul>
          <li class="food-list food-list-hook" v-for="item in goods">
            <h1 class="title">{{item.name}}</h1>
            <ul>
              <li class="food-item border-1px" v-for="food in item.foods">
                <div class="icon">
                  
                </div>
                <div class="content">
                  <h2 class="name">{{food.name}}</h2>
                  <p class="desc">{{food.description}}</p>
                  <div class="extra">
                    <span class="count">月售{{food.sellCount}}份</span>
                    <span>好评率{{food.rating}}%</span>
                  </div>
                  <div class="price">
                    <span class="now">¥{{food.price}}</span>
                    <span class="old" v-show="food.oldPrice">¥{{food.oldPrice}}</span>
                  </div>
                  <div class="cartcontrol-wrapper">
                    cartcontrol
                  </div>
                </div>
              </li>
            </ul>
          </li>
        </ul>
      </div>
    </div>
  </div>
</template>
```

```

    </li>
  </ul>
</div>
</div>
</template>

```

5) JS

```

<script type="text/ecmascript-6">
  import BScroll from 'better-scroll'

  export default{
    data () {
      return {
        goods: [],
        tops: [],
        scrollY: 0,
      }
    },

    created () {
      this.classMap = ['decrease', 'discount', 'special', 'invoice', 'guarantee']
      this.$http.get('/api/goods').then((response) => {
        const result = response.body
        console.log(result)
        if (result.errno === 0) {
          this.goods = result.data
          // 将回调延迟到下次 DOM 更新循环之后执行
          this.$nextTick(() => {
            // 初始化滚动
            this._initScroll()
            // 初始化列表项的top 值
            this._initTops()
          })
        }
      })
    },

    methods: {
      _initScroll () {
        this.menuScroll = new BScroll(this.$els.menuWrapper, {
          click: true

```

```

    })
    this.foodsScroll = new BScroll(this.$els.foodsWrapper, {
      click: true,
      probeType: 3
    })
    // 监视 foods 的滚动
    this.foodsScroll.on('scroll', (pos) => {
      // console.log(pos.x + '~' + pos.y)
      this.scrollY = Math.abs(Math.round(pos.y))
    })
  },
  _initTops () {
    const foodList =
this.$els.foodsWrapper.getElementsByClassName('food-list-hook')
    let top = 0
    this.tops.push(top)
    for(let i=0;i<foodList.length;i++) {
      let item = foodList[i]
      top += item.clientHeight
      this.tops.push(top)
    }
    console.log(this.tops)
  },

  clickMenuItem (index, event) {
    console.log(event._constructed, -this.tops[index])
    if(!event._constructed) {
      return
    }
    const foodList =
this.$els.foodsWrapper.getElementsByClassName('food-list-hook')
    const el = foodList[index]
    this.foodsScroll.scrollToElement(el, 300)
  },

  computed: {
    currentIndex () {
      return this.tops.findIndex((top, index)=> {
        return this.scrollY>=top && this.scrollY<this.tops[index+1]
      })
    }
  }
}

```

```
</script>
```

2.14. 开发 cartcontrol 组件

1) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">
  .cartcontrol
    font-size: 0
    .cart-decrease
      display: inline-block
      padding: 6px
      transition: all 0.4s linear
      &.move-transition
        opacity: 1
        transform: translate3d(0, 0, 0)
    .inner
      display: inline-block
      line-height: 24px
      font-size: 24px
      color: rgb(0, 160, 220)
      transition: all 0.4s linear
      transform: rotate(0)
      &.move-enter, &.move-leave
        opacity: 0
        transform: translate3d(24px, 0, 0)
    .inner
      transform: rotate(180deg)
  .cart-count
    display: inline-block
    vertical-align: top
    width: 12px
    padding-top: 6px
    line-height: 24px
    text-align: center
    font-size: 10px
    color: rgb(147, 153, 159)
  .cart-add
    display: inline-block
    padding: 6px
    line-height: 24px
    font-size: 24px
```



```
color: rgb(0, 160, 220)
</style>
```

2) 页面模板

```
<template>
  <div class="cartcontrol">
    <div class="cart-decrease" v-show="food.count>0"
      @click="decrease" transition="move">
      <span class="inner icon-remove_circle_outline"></span>
    </div>
    <div class="cart-count" v-show="food.count>0">{{food.count}}</div>
    <div class="cart-add icon-add_circle" @click="increase"></div>
  </div>
</template>
```

3) JS

```
<script type="text/ecmascript-6">
  import Vue from 'vue'

  export default {
    props: {
      food: {
        type: Object
      }
    },
    methods: {
      increase(event) {
        if (!event._constructed) {
          return
        }
        if (!this.food.count) {
          // 给对象添加属性, 更新界面
          Vue.set(this.food, 'count', 1)
        } else {
          this.food.count++
        }
      },
      decrease(event) {
        if (!event._constructed) {
```

```

        return
    }
    if (this.food.count) {
        this.food.count--
    }
}
}
}
}
</script>

```

4) 使用组件标签

```

<div class="cartcontrol-wrapper">
    <cartcontrol :food="food"></cartcontrol>
</div>

```

2.15. 开发 shopcart 组件

1) stylus 样式

```

<style lang="stylus" rel="stylesheet/stylus">
    @import "../common/stylus/mixin.styl"

    .shopcart
        position: fixed
        left: 0
        bottom: 0
        z-index: 50
        width: 100%
        height: 48px
        .content
            display: flex
            background: #141d27
            font-size: 0
            color: rgba(255, 255, 255, 0.4)
            .content-left
                flex: 1
            .logo-wrapper
                display: inline-block

```

```
vertical-align: top
position: relative
top: -10px
margin: 0 12px
padding: 6px
width: 56px
height: 56px
box-sizing: border-box
border-radius: 50%
background: #141d27
.logo
  width: 100%
  height: 100%
  border-radius: 50%
  text-align: center
  background: #2b343c
  &.highlight
    background: rgb(0, 160, 220)
  .icon-shopping_cart
    line-height: 44px
    font-size: 24px
    color: #80858a
    &.highlight
      color: #fff
  .num
    position: absolute
    top: 0
    right: 0
    width: 24px
    height: 16px
    line-height: 16px
    text-align: center
    border-radius: 16px
    font-size: 9px
    font-weight: 700
    color: #fff
    background: rgb(240, 20, 20)
    box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.4)
  .price
    display: inline-block
    vertical-align: top
    margin-top: 12px
    line-height: 24px
    padding-right: 12px
```

```

    box-sizing: border-box
    border-right: 1px solid rgba(255, 255, 255, 0.1)
    font-size: 16px
    font-weight: 700
    &.highlight
      color: #fff
  .desc
    display: inline-block
    vertical-align: top
    margin: 12px 0 0 12px
    line-height: 24px
    font-size: 10px
  .content-right
    flex: 0 0 105px
    width: 105px
  .pay
    height: 48px
    line-height: 48px
    text-align: center
    font-size: 12px
    font-weight: 700
    &.not-enough
      background: #2b333b
    &.enough
      background: #00b43c
      color: #fff
  .ball-container
    .ball
      position: fixed
      left: 32px
      bottom: 22px
      z-index: 200
    &.drop-transition
      transition: all 0.4s cubic-bezier(0.49, -0.29, 0.75, 0.41)
    .inner
      width: 16px
      height: 16px
      border-radius: 50%
      background: rgb(0, 160, 220)
      transition: all 0.4s linear
  .shopcart-list
    position: absolute
    left: 0
    top: 0

```

```

z-index: -1
width: 100%
&.fold-transition
  transition: all 0.5s
  transform: translate3d(0, -100%, 0)
&.fold-enter, &.fold-leave
  transform: translate3d(0, 0, 0)
.list-header
  height: 40px
  line-height: 40px
  padding: 0 18px
  background: #f3f5f7
  border-bottom: 1px solid rgba(7, 17, 27, 0.1)
.title
  float: left
  font-size: 14px
  color: rgb(7, 17, 27)
.empty
  float: right
  font-size: 12px
  color: rgb(0, 160, 220)

.list-content
  padding: 0 18px
  max-height: 217px
  overflow: hidden
  background: #fff
.food
  position: relative
  padding: 12px 0
  box-sizing: border-box
  border: 1px solid rgba(7, 17, 27, 0.1)
.name
  line-height: 24px
  font-size: 14px
  color: rgb(7, 17, 27)
.price
  position: absolute
  right: 90px
  bottom: 12px
  line-height: 24px
  font-size: 14px
  font-weight: 700
  color: rgb(240, 20, 20)

```

```

    .cartcontrol-wrapper
      position: absolute
      right: 0
      bottom: 6px

    .list-mask
      position: fixed
      top: 0
      left: 0
      width: 100%
      height: 100%
      z-index: 40
      backdrop-filter: blur(10px)
      &.fade-transition
        transition: all 0.5s
        opacity: 1
        background: rgba(7, 17, 27, 0.6)
      &.fade-enter, &.fade-leave
        opacity: 0
        background: rgba(7, 17, 27, 0)
  </style>

```

2) 页面模板

```

<template>
  <div class="shopcart">
    <div class="content" @click="toggleList">
      <div class="content-left">
        <div class="logo-wrapper">
          <div class="logo" :class="{ 'highlight': totalCount > 0 }">
            <i class="icon-shopping_cart" :class="{ 'highlight': totalCount > 0 }"></i>
          </div>
          <div class="num" v-show="totalCount > 0">{{totalCount}}</div>
        </div>
        <div class="price" :class="{ 'highlight': totalPrice > 0 }">¥{{totalPrice}}</div>
        <div class="desc">另需配送费¥{{deliveryPrice}}元</div>
      </div>
      <div class="content-right" @click.stop.prevent="pay">
        <div class="pay" :class="payClass">
          {{payDesc}}
        </div>
      </div>
    </div>
  </div>
</template>

```

```

</div>
<div class="ball-container">
  <div transition="drop" v-for="ball in balls" v-show="ball.show" class="ball">
    <div class="inner inner-hook"></div>
  </div>
</div>
<div class="shopcart-list" v-show="listShow" transition="fold">
  <div class="list-header">
    <h1 class="title">购物车</h1>
    <span class="empty" @click="empty">清空</span>
  </div>
  <div class="list-content" v-el:list-content>
    <ul>
      <li class="food" v-for="food in selectFoods">
        <span class="name">{{food.name}}</span>
        <div class="price">
          <span>¥{{food.price*food.count}}</span>
        </div>
        <div class="cartcontrol-wrapper">
          <cartcontrol :food="food"></cartcontrol>
        </div>
      </li>
    </ul>
  </div>
</div>
<div class="list-mask" @click="hideList" v-show="listShow" transition="fade"></div>
</template>

```

3) JS

```

<script type="text/ecmascript-6">
  import BScroll from 'better-scroll';
  import cartcontrol from 'components/cartcontrol/cartcontrol';

  export default {
    props: {
      selectFoods: {
        type: Array,
        default() {
          return []
        }
      }
    }
  }

```

```

    },
    deliveryPrice: {
      type: Number,
      default: 0
    },
    minPrice: {
      type: Number,
      default: 0
    }
  },
  data() {
    return {
      fold: true
    };
  },

  computed: {
    totalPrice() {
      let total = 0;
      this.selectFoods.forEach((food) => {
        total += food.price * food.count;
      });
      return total;
    },
    totalCount() {
      let count = 0;
      this.selectFoods.forEach((food) => {
        count += food.count;
      });
      return count;
    },
    payDesc() {
      if (this.totalPrice === 0) {
        return `¥${this.minPrice}元起送`;
      } else if (this.totalPrice < this.minPrice) {
        let diff = this.minPrice - this.totalPrice;
        return `还差¥${diff}元起送`;
      } else {
        return '去结算';
      }
    },
    payClass() {
      if (this.totalPrice < this.minPrice) {

```



```

        return 'not-enough';
    } else {
        return 'enough';
    }
},
listShow() {
    if (!this.totalCount) {
        this.fold = true;
        return false;
    }
    let show = !this.fold;
    if (show) {
        this.$nextTick(() => {
            if (!this.scroll) {
                this.scroll = new BScroll(this.$els.listContent, {
                    click: true
                });
            } else {
                this.scroll.refresh();
            }
        });
    }
    return show;
},

methods: {
    toggleList() {
        if (!this.totalCount) {
            return;
        }
        this.fold = !this.fold;
    },
    hideList() {
        this.fold = true;
    },
    empty() {
        this.selectFoods.forEach((food) => {
            food.count = 0;
        });
    },
    pay() {
        if (this.totalPrice < this.minPrice) {
            return;
        }
    }
}

```

```

    }
    window.alert(`支付${this.totalPrice}元`);
  }
},

components: {
  cartcontrol
}
};
</script>

```

4) 使用组件标签

- goods.vue

```

<shopcart v-ref:shopcart
  :select-foods="selectFoods"
  :delivery-price="seller.deliveryPrice"
  :min-price="seller.minPrice"></shopcart>

import shopcart from '../shopcart/shopcart'

export default{
  props: {
    seller: {
      type: Object
    }
  },
  computed: {
    selectFoods () {
      const foods = []
      this.goods.forEach(good => {
        good.foods.forEach(food => {
          if(food.count) {
            foods.push(food)
          }
        })
      })
      return foods
    }
  },

```

```
components: {  
  shopcart  
}  
}
```

- App.vue

```
<router-view :seller="seller"></router-view>
```

2.16. 开发 ratingsselect 组件

1) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">  
  @import "../common/stylus/mixin.styl"  
  
  .ratingsselect  
    .rating-type  
      padding: 18px 0  
      margin: 0 18px  
      border-1px(rgba(7, 17, 27, 0.1))  
      font-size: 0  
      .block  
        display: inline-block  
        padding: 8px 12px  
        margin-right: 8px  
        line-height: 16px  
        border-radius: 1px  
        font-size: 12px  
        color: rgb(77, 85, 93)  
        &.active  
          color: #fff  
      .count  
        margin-left: 2px  
        font-size: 8px  
      &.positive  
        background: rgba(0, 160, 220, 0.2)  
        &.active  
          background: rgb(0, 160, 220)  
      &.negative  
        background: rgba(77, 85, 93, 0.2)  
        &.active  
          background: rgb(77, 85, 93)
```

```

.switch
padding: 12px 18px
line-height: 24px
border-bottom: 1px solid rgba(7, 17, 27, 0.1)
color: rgb(147, 153, 159)
font-size: 0
&.on
  .icon-check_circle
    color: #00c850
  .icon-check_circle
    display: inline-block
    vertical-align: top
    margin-right: 4px
    font-size: 24px
  .text
    display: inline-block
    vertical-align: top
    font-size: 12px
</style>

```

2) 页面模板

```

<template>
  <div class="ratingsselect">
    <div class="rating-type border-1px">
      <span class="block positive" @click="select(2,$event)"
        :class="{ 'active':selectType===2}">
        {{desc.all}}<span class="count">{{ratings.length}}</span></span>
      <span class="block positive" @click="select(0,$event)"
        :class="{ 'active':selectType===0}">
        {{desc.positive}}<span class="count">{{positives.length}}</span></span>
      <span class="block negative" @click="select(1,$event)"
        :class="{ 'active':selectType===1}">
        {{desc.negative}}<span class="count">{{negatives.length}}</span>
      </span>
    </div>

    <div class="switch" @click="toggleContent" :class="{ 'on':onlyContent}">
      <span class="icon-check_circle"></span>
      <span class="text">只看有内容的评价</span>
    </div>
  </div>

```

```
</template>
```

3) JS

```
<script>
  const POSITIVE = 0
  const NEGATIVE = 1
  const ALL = 2

  export default {
    props: {
      ratings: {
        type: Array,
        default() {
          return []
        }
      },
      selectType: {
        type: Number
      },
      onlyContent: {
        type: Boolean
      },
      desc: {
        type: Object
      }
    },
    computed: {
      positives() {
        return this.ratings.filter((rating) => {
          return rating.rateType === POSITIVE
        })
      },
      negatives() {
        return this.ratings.filter((rating) => {
          return rating.rateType === NEGATIVE
        })
      }
    },
    methods: {
      select(type, event) {
        if (!event._constructed) {
```

```

        return
    }
    this.selectType = type
    this.$dispatch('ratingtype.select', type)
},
toggleContent(event) {
    if (!event._constructed) {
        return
    }
    this.onlyContent = !this.onlyContent
    this.$dispatch('content.toggle', this.onlyContent)
}
}
}
</script>

```

2.17. 开发 food 组件

1) stylus 样式

```

<style lang="stylus" rel="stylesheet/stylus">
    @import "../common/stylus/mixin.styl"

    .food
        position: fixed
        left: 0
        top: 0
        bottom: 48px
        z-index: 30
        width: 100%
        background: #fff
        &.move-transition
            transition: all 0.2s linear
            transform: translate3d(0, 0, 0)
        &.move-enter, &.move-leave
            transform: translate3d(100%, 0, 0)
        .image-header
            position: relative
            width: 100%
            height: 0
            padding-top: 100%
            img

```

```

    position: absolute
    top: 0
    left: 0
    width: 100%
    height: 100%
.back
    position: absolute
    top: 10px
    left: 0
    .icon-arrow_lift
        display: block
        padding: 10px
        font-size: 20px
        color: #fff

.content
    position: relative
    padding: 18px
    .title
        line-height: 14px
        margin-bottom: 8px
        font-size: 14px
        font-weight: 700
        color: rgb(7, 17, 27)
    .detail
        margin-bottom: 18px
        line-height: 10px
        height: 10px
        font-size: 0
        .sell-count, .rating
            font-size: 10px
            color: rgb(147, 153, 159)
        .sell-count
            margin-right: 12px
    .price
        font-weight: 700
        line-height: 24px
    .now
        margin-right: 8px
        font-size: 14px
        color: rgb(240, 20, 20)
    .old
        text-decoration: line-through
        font-size: 10px

```

```

        color: rgb(147, 153, 159)
.cartcontrol-wrapper
  position: absolute
  right: 12px
  bottom: 12px
.buy
  position: absolute
  right: 18px
  bottom: 18px
  z-index: 10
  height: 24px
  line-height: 24px
  padding: 0 12px
  box-sizing: border-box
  border-radius: 12px
  font-size: 10px
  color: #fff
  background: rgb(0, 160, 220)
  &.fade-transition
    transition: all 0.2s
    opacity: 1
  &.fade-enter, &.fade-leave
    opacity: 0
.info
  padding: 18px
  .title
    line-height: 14px
    margin-bottom: 6px
    font-size: 14px
    color: rgb(7, 17, 27)
  .text
    line-height: 24px
    padding: 0 8px
    font-size: 12px
    color: rgb(77, 85, 93)
.rating
  padding-top: 18px
  .title
    line-height: 14px
    margin-left: 18px
    font-size: 14px
    color: rgb(7, 17, 27)
  .rating-wrapper
    padding: 0 18px

```



```

.rating-item
  position: relative
  padding: 16px 0
  border: 1px solid rgba(7, 17, 27, 0.1)
  .user
    position: absolute
    right: 0
    top: 16px
    line-height: 12px
    font-size: 0
  .name
    display: inline-block
    margin-right: 6px
    vertical-align: top
    font-size: 10px
    color: rgb(147, 153, 159)
  .avatar
    border-radius: 50%
  .time
    margin-bottom: 6px
    line-height: 12px
    font-size: 10px
    color: rgb(147, 153, 159)
  .text
    line-height: 16px
    font-size: 12px
    color: rgb(7, 17, 27)
  .icon-thumb_up, .icon-thumb_down
    margin-right: 4px
    line-height: 16px
    font-size: 12px
  .icon-thumb_up
    color: rgb(0, 160, 220)
  .icon-thumb_down
    color: rgb(147, 153, 159)

.no-rating
  padding: 16px 0
  font-size: 12px
  color: rgb(147, 153, 159)

```

```
</style>
```

2) 页面模板

```
<template>
  <div class="food" v-show="showFlag" v-el:food>
    <div class="food-content">
      <div class="image-header">
        
        <div class="back" @click="hide">
          <i class="icon-arrow_lift"></i>
        </div>
      </div>
      <div class="content">
        <h1 class="title">{{food.name}}</h1>
        <div class="detail">
          <span class="sell-count">月售{{food.sellCount}}份</span>
          <span class="rating">好评率{{food.rating}}%</span>
        </div>
        <div class="price">
          <span class="now">¥{{food.price}}</span>
          <span class="old" v-show="food.oldPrice">¥{{food.oldPrice}}</span>
        </div>
        <div class="cartcontrol-wrapper">
          <cartcontrol :food="food"></cartcontrol>
        </div>
        <div class="buy" @click.stop.prevent="addFirst"
          v-show="!food.count || food.count===0"
          transition="fade">加入购物车
        </div>
      </div>
      <split v-show="food.info"></split>
      <div class="info" v-show="food.info">
        <h1 class="title">商品信息</h1>
        <p class="text">{{food.info}}</p>
      </div>
      <split></split>
      <div class="rating">
        <h1 class="title">商品评价</h1>
        <ratingsselect :select-type="selectType"
          :only-content="onlyContent"
          :desc="desc"
          :ratings="food.ratings"></ratingsselect>
        <div class="rating-wrapper">
          <ul v-show="food.ratings && food.ratings.length">
```

```

    <li class="rating-item border-1px"
v-show="needShow(rating.rateType,rating.text)"
    v-for="rating in food.ratings">
      <div class="user">
        <span class="name">{{rating.username}}</span>
        
      </div>
      <div class="time">{{rating.rateTime | formatDate}}</div>
      <p class="text">

<span :class="{ 'icon-thumb_up':rating.rateType===0, 'icon-thumb_down':rating.rateType
===1}"></span>{{rating.text}}
      </p>
    </li>
  </ul>
  <div class="no-rating" v-show="!food.ratings || !food.ratings.length">暂无评
价</div>
</div>
</div>
</div>
</div>
</template>

```

3) JS

```

<script>
  import BScroll from 'better-scroll'
  import Vue from 'vue'
  import {formatDate} from '../common/js/dateUtil'
  import cartcontrol from '../cartcontrol/cartcontrol'
  import ratingsselect from '../ratingsselect/ratingsselect'
  import split from '../split/split'

  const ALL = 2

  export default {
    props: {
      food: {
        type: Object
      }
    },
    data() {

```

```

return {
  showFlag: false,
  selectType: ALL,
  onlyContent: true,
  desc: {
    all: '全部',
    positive: '推荐',
    negative: '吐槽'
  }
}
},
methods: {
  show() {
    this.showFlag = true
    this.selectType = ALL
    this.onlyContent = true
    this.$nextTick(() => {
      if (!this.scroll) {
        this.scroll = new BScroll(this.$els.food, {
          click: true
        })
      } else {
        this.scroll.refresh()
      }
    })
  },
  hide() {
    this.showFlag = false
  },
  addFirst(event) {
    if (!event._constructed) {
      return
    }
    this.$dispatch('cart.add', event.target)
    Vue.set(this.food, 'count', 1)
  },
  needShow(type, text) {
    if (this.onlyContent && !text) {
      return false
    }
    if (this.selectType === ALL) {
      return true
    } else {
      return type === this.selectType
    }
  }
}

```

```

    }
  }
},
events: {
  'ratingtype.select'(type) {
    this.selectType = type
    this.$nextTick(() => {
      this.scroll.refresh()
    })
  },
  'content.toggle'(onlyContent) {
    this.onlyContent = onlyContent
    this.$nextTick(() => {
      this.scroll.refresh()
    })
  }
},
filters: {
  formatDate(time) {
    let date = new Date(time)
    return formatDate(date, 'yyyy-MM-dd hh:mm')
  }
},
components: {
  cartcontrol,
  ratingsselect,
  split
}
}
</script>

```

4) 定义日期格式化模块

src/common/js/dateUtil.js

```

export function formatDate(date, fmt) {
  if (/((y+)/).test(fmt)) {
    fmt = fmt.replace(RegExp.$1, (date.getFullYear() + '').substr(4 - RegExp.$1.length))
  }
  let o = {
    'M+': date.getMonth() + 1,
    'd+': date.getDate(),

```

```

    'h+': date.getHours(),
    'm+': date.getMinutes(),
    's+': date.getSeconds()
  }
  for (let k in o) {
    if (new RegExp(`(${k})`).test(fmt)) {
      let str = o[k] + ''
      fmt = fmt.replace(RegExp.$1, (RegExp.$1.length === 1) ? str : padLeftZero(str))
    }
  }
  return fmt
}

function padLeftZero(str) {
  return ('00' + str).substr(str.length)
}

```

5) 开发分隔块组件(简单): split.vue

```

<template>
  <div class="split"></div>
</template>

<script type="text/ecmascript-6">
  export default {

  }
</script>

<style lang="stylus" rel="stylesheet/stylus">
  .split
    width: 100%
    height: 16px
    border-top: 1px solid rgba(7, 17, 27, 0.1)
    border-bottom: 1px solid rgba(7, 17, 27, 0.1)
    background: #f3f5f7
</style>

```

6) 使用组件标签

```
<li class="food-item border-1px" v-for="food in item.foods"
  @click="selectFood(food, $event)">

  <food :food="selectedFood" v-ref:food></food>

data () {
  return {
    selectedFood: {}
  }
},
methods: {
  selectFood(food, event) {
    if (!event._constructed) {
      return
    }
    this.selectedFood = food
    this.$refs.food.show()
  }
}

components: {
  food
}
```

2.18. 开发 ratings 组件

1) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">
  @import "../common/stylus/mixin.styl"

  .ratings
    position: absolute
    top: 174px
    bottom: 0
    left: 0
    width: 100%
    overflow: hidden
```

```

.overview
  display: flex
  padding: 18px 0
  .overview-left
    flex: 0 0 137px
    padding: 6px 0
    width: 137px
    border-right: 1px solid rgba(7, 17, 27, 0.1)
    text-align: center
    @media only screen and (max-width: 320px)
      flex: 0 0 120px
      width: 120px
  .score
    margin-bottom: 6px
    line-height: 28px
    font-size: 24px
    color: rgb(255, 153, 0)
  .title
    margin-bottom: 8px
    line-height: 12px
    font-size: 12px
    color: rgb(7, 17, 27)
  .rank
    line-height: 10px
    font-size: 10px
    color: rgb(147, 153, 159)
  .overview-right
    flex: 1
    padding: 6px 0 6px 24px
    @media only screen and (max-width: 320px)
      padding-left: 6px
  .score-wrapper
    margin-bottom: 8px
    font-size: 0
    .title
      display: inline-block
      line-height: 18px
      vertical-align: top
      font-size: 12px
      color: rgb(7, 17, 27)
    .star
      display: inline-block
      margin: 0 12px
      vertical-align: top

```



```

    .score
      display: inline-block
      line-height: 18px
      vertical-align: top
      font-size: 12px
      color: rgb(255, 153, 0)
    .delivery-wrapper
      font-size: 0
    .title
      line-height: 18px
      font-size: 12px
      color: rgb(7, 17, 27)
    .delivery
      margin-left: 12px
      font-size: 12px
      color: rgb(147, 153, 159)
  .rating-wrapper
    padding: 0 18px
    .rating-item
      display: flex
      padding: 18px 0
      border: 1px(rgba(7, 17, 27, 0.1))
    .avatar
      flex: 0 0 28px
      width: 28px
      margin-right: 12px
      img
        border-radius: 50%
    .content
      position: relative
      flex: 1
      .name
        margin-bottom: 4px
        line-height: 12px
        font-size: 10px
        color: rgb(7, 17, 27)
      .star-wrapper
        margin-bottom: 6px
        font-size: 0
        .star
          display: inline-block
          margin-right: 6px
          vertical-align: top
      .delivery

```

```

        display: inline-block
        vertical-align: top
        line-height: 12px
        font-size: 10px
        color: rgb(147, 153, 159)
    .text
        margin-bottom: 8px
        line-height: 18px
        color: rgb(7, 17, 27)
        font-size: 12px
    .recommend
        line-height: 16px
        font-size: 0
    .icon-thumb_up, .item
        display: inline-block
        margin: 0 8px 4px 0
        font-size: 9px
    .icon-thumb_up
        color: rgb(0, 160, 220)
    .item
        padding: 0 6px
        border: 1px solid rgba(7, 17, 27, 0.1)
        border-radius: 1px
        color: rgb(147, 153, 159)
        background: #fff
    .time
        position: absolute
        top: 0
        right: 0
        line-height: 12px
        font-size: 10px
        color: rgb(147, 153, 159)
</style>

```

2) 页面模板

```

<template>
  <div class="ratings" v-el:ratings>
    <div class="ratings-content">
      <div class="overview">
        <div class="overview-left">
          <h1 class="score">{{seller.score}}</h1>

```

```

<div class="title">综合评分</div>
<div class="rank">高于周边商家{{seller.rankRate}}%</div>
</div>
<div class="overview-right">
  <div class="score-wrapper">
    <span class="title">服务态度</span>
    <star :size="36" :score="seller.serviceScore"></star>
    <span class="score">{{seller.serviceScore}}</span>
  </div>
  <div class="score-wrapper">
    <span class="title">商品评分</span>
    <star :size="36" :score="seller.foodScore"></star>
    <span class="score">{{seller.foodScore}}</span>
  </div>
  <div class="delivery-wrapper">
    <span class="title">送达时间</span>
    <span class="delivery">{{seller.deliveryTime}}分钟</span>
  </div>
</div>
</div>
<split></split>
<ratingsselect :select-type="selectType"
  :only-content="onlyContent"
  :desc="desc"
  :ratings="ratings"></ratingsselect>
<div class="rating-wrapper">
  <ul>
    <li v-for="rating in ratings" v-show="needShow(rating.rateType, rating.text)"
      class="rating-item">
      <div class="avatar">
        
      </div>
      <div class="content">
        <h1 class="name">{{rating.username}}</h1>
        <div class="star-wrapper">
          <star :size="24" :score="rating.score"></star>
          <span class="delivery"
            v-show="rating.deliveryTime">{{rating.deliveryTime}}</span>
        </div>
        <p class="text">{{rating.text}}</p>
        <div class="recommend" v-show="rating.recommend &&
          rating.recommend.length">
          <span class="icon-thumb_up"></span>
          <span class="item" v-for="item in rating.recommend">{{item}}</span>
        </div>
      </li>
    </ul>
  </div>

```

```

        </div>
        <div class="time">
            {{rating.rateTime | formatDate}}
        </div>
    </div>
</li>
</ul>
</div>
</div>
</div>
</template>

```

3) JS

```

<script type="text/ecmascript-6">
    import BScroll from 'better-scroll'
    import {formatDate} from '../../common/js/dateUtil'
    import star from '../star/star'
    import ratingsselect from '../ratingsselect/ratingsselect'
    import split from '../split/split'

    const ALL = 2
    const ERR_OK = 0

    export default {
        props: {
            seller: {
                type: Object
            }
        },
        data() {
            return {
                ratings: [],
                selectType: ALL,
                onlyContent: true,
                desc: {
                    all: '全部',
                    positive: '推荐',
                    negative: '吐槽'
                }
            }
        },
    },

```

```

created() {
  this.$http.get('/api/ratings').then((response) => {
    response = response.body
    if (response.errno === ERR_OK) {
      this.ratings = response.data
      this.$nextTick(() => {
        this.scroll = new BScroll(this.$els.ratings, {
          click: true
        })
      })
    }
  })
},
methods: {
  needShow(type, text) {
    if (this.onlyContent && !text) {
      return false
    }
    if (this.selectType === ALL) {
      return true
    } else {
      return type === this.selectType
    }
  }
},
events: {
  'ratingtype.select'(type) {
    this.selectType = type
    this.$nextTick(() => {
      this.scroll.refresh()
    })
  },
  'content.toggle'(onlyContent) {
    this.onlyContent = onlyContent
    this.$nextTick(() => {
      this.scroll.refresh()
    })
  }
},
filters: {
  formatDate(time) {
    let date = new Date(time)
    return formatDate(date, 'yyyy-MM-dd hh:mm')
  }
}

```

```
    },  
    components: {  
      star,  
      split,  
      ratingsselect  
    }  
  }  
}  
</script>
```

2.19. 开发 seller 组件

1) 图片资源

```
decrease_4@3x.png  
invoice_4@3x.png  
guarantee_4@2x.png  
discount_4@2x.png  
guarantee_4@3x.png  
decrease_4@2x.png  
special_4@3x.png  
invoice_4@2x.png  
discount_4@3x.png  
special_4@2x.png
```

2) stylus 样式

```
<style lang="stylus" rel="stylesheet/stylus">  
  @import "../common/stylus/mixin.styl"  
  
  .seller  
    position: absolute  
    top: 174px  
    bottom: 0  
    left: 0  
    width: 100%  
    overflow: hidden  
  .overview  
    position: relative  
    padding: 18px
```

```

.title
  margin-bottom: 8px
  line-height: 14px
  color: rgb(7, 17, 27)
  font-size: 14px
.desc
  padding-bottom: 18px
  border-1px(rgba(7, 17, 27, 0.1))
  font-size: 0
.star
  display: inline-block
  margin-right: 8px
  vertical-align: top
.text
  display: inline-block
  margin-right: 12px
  line-height: 18px
  vertical-align: top
  font-size: 10px
  color: rgb(77, 85, 93)
.remark
  display: flex
  padding-top: 18px
.block
  flex: 1
  text-align: center
  border-right: 1px solid rgba(7, 17, 27, 0.1)
  &:last-child
    border: none
h2
  margin-bottom: 4px
  line-height: 10px
  font-size: 10px
  color: rgb(147, 153, 159)
.content
  line-height: 24px
  font-size: 10px
  color: rgb(7, 17, 27)
  .stress
    font-size: 24px
.favorite
  position: absolute
  width: 50px
  right: 11px

```

```

top: 18px
text-align: center
.icon-favorite
  display: block
  margin-bottom: 4px
  line-height: 24px
  font-size: 24px
  color: #d4d6d9
  &.active
    color: rgb(240, 20, 20)
.text
  line-height: 10px
  font-size: 10px
  color: rgb(77, 85, 93)
.bulletin
  padding: 18px 18px 0 18px
  .title
    margin-bottom: 8px
    line-height: 14px
    color: rgb(7, 17, 27)
    font-size: 14px
  .content-wrapper
    padding: 0 12px 16px 12px
    border: 1px solid rgba(7, 17, 27, 0.1)
    .content
      line-height: 24px
      font-size: 12px
      color: rgb(240, 20, 20)
  .supports
    .support-item
      padding: 16px 12px
      border: 1px solid rgba(7, 17, 27, 0.1)
      font-size: 0
      &:last-child
        border: none()
  .icon
    display: inline-block
    width: 16px
    height: 16px
    vertical-align: top
    margin-right: 6px
    background-size: 16px 16px
    background-repeat: no-repeat
    &.decrease

```



```

        bg-image('decrease_4')
    &.discount
        bg-image('discount_4')
    &.guarantee
        bg-image('guarantee_4')
    &.invoice
        bg-image('invoice_4')
    &.special
        bg-image('special_4')
    .text
        line-height: 16px
        font-size: 12px
        color: rgb(7, 17, 27)
    .pics
        padding: 18px
    .title
        margin-bottom: 12px
        line-height: 14px
        color: rgb(7, 17, 27)
        font-size: 14px
    .pic-wrapper
        width: 100%
        overflow: hidden
        white-space: nowrap
    .pic-list
        font-size: 0
    .pic-item
        display: inline-block
        margin-right: 6px
        width: 120px
        height: 90px
        &:last-child
            margin: 0
    .info
        padding: 18px 18px 0 18px
        color: rgb(7, 17, 27)
    .title
        padding-bottom: 12px
        line-height: 14px
        border-1px(rgba(7, 17, 27, 0.1))
        font-size: 14px
    .info-item
        padding: 16px 12px
        line-height: 16px

```

```

border-1px(rgba(7, 17, 27, 0.1))
font-size: 12px
&:last-child
border-none()
</style>

```

3) 页面模板

```

<template>
  <div class="seller" v-el:seller>
    <div class="seller-content">
      <div class="overview">
        <h1 class="title">{{seller.name}}</h1>
        <div class="desc border-1px">
          <star :size="36" :score="seller.score"></star>
          <span class="text">({{seller.ratingCount}})</span>
          <span class="text">月售{{seller.sellCount}}单</span>
        </div>
        <ul class="remark">
          <li class="block">
            <h2>起送价</h2>
            <div class="content">
              <span class="stress">{{seller.minPrice}}</span>元
            </div>
          </li>
          <li class="block">
            <h2>商家配送</h2>
            <div class="content">
              <span class="stress">{{seller.deliveryPrice}}</span>元
            </div>
          </li>
          <li class="block">
            <h2>平均配送时间</h2>
            <div class="content">
              <span class="stress">{{seller.deliveryTime}}</span>分钟
            </div>
          </li>
        </ul>
        <div class="favorite" @click="toggleFavorite">
          <span class="icon-favorite" :class="{ 'active': favorite }"></span>
          <span class="text">{{favoriteText}}</span>
        </div>
      </div>
    </div>
  </div>

```

```

</div>
<split></split>
<div class="bulletin">
  <h1 class="title">公告与活动</h1>
  <div class="content-wrapper border-1px">
    <p class="content">{{seller.bulletin}}</p>
  </div>
  <ul v-if="seller.supports" class="supports">
    <li class="support-item border-1px" v-for="item in seller.supports">
      <span class="icon" :class="classMap[seller.supports[$index].type]"></span>
      <span class="text">{{seller.supports[$index].description}}</span>
    </li>
  </ul>
</div>
<split></split>
<div class="pics">
  <h1 class="title">商家实景</h1>
  <div class="pic-wrapper" v-el:pic-wrapper>
    <ul class="pic-list" v-el:pic-list>
      <li class="pic-item" v-for="pic in seller.pics">
        
      </li>
    </ul>
  </div>
</div>
<split></split>
<div class="info">
  <h1 class="title border-1px">商家信息</h1>
  <ul>
    <li class="info-item" v-for="info in seller.infos">{{info}}</li>
  </ul>
</div>
</div>
</div>
</template>

```

4) JS

```

<script>
  import BScroll from 'better-scroll'
  import star from 'components/star/star'
  import split from 'components/split/split'

```

```

export default {
  props: {
    seller: {
      type: Object
    }
  },
  data() {
    return {
      favorite: !!localStorage.favorite
    }
  },
  computed: {
    favoriteText() {
      return this.favorite ? '已收藏' : '收藏'
    }
  },
  created() {
    this.classMap = ['decrease', 'discount', 'special', 'invoice', 'guarantee']
  },

  ready () {
    this._initScroll()
  },
  methods: {
    toggleFavorite(event) {
      if (!event._constructed) {
        return
      }
      this.favorite = !this.favorite
      localStorage.favorite = this.favorite
    },

    _initScroll() {
      console.log('_initScroll', this.seller)
      if(this.seller.pics) {

        this.$nextTick(() => {
          this.scroll = new BScroll(this.$els.seller, {
            click: true
          })
        })
      }

      const picWidth = 120

```

```

const margin = 6
const width = (picWidth+margin)*this.seller.pics.length - margin + 'px'
this.$els.picList.style.width = width
this.$nextTick(() => {
  this.picScroll = new BScroll(this.$els.picWrapper, {
    scrollX: true,
    eventPassthrough: 'vertical'
  })
})
},
},
components: {
  star,
  split
}
}
</script>

```

2.20. 购物车小球动画

1) 模板页面

```

<div class="ball-container">
  <div class="ball" v-for="ball in balls" transition="drop" v-show="ball.show">
    <div class="inner inner-hook"></div>
  </div>
</div>

```

2) JS

```

<script>
import BScroll from 'better-scroll';
import cartcontrol from 'components/cartcontrol/cartcontrol';

export default {
  data() {
    return {

```

```

    balls: [
      {
        show: false
      },
      {
        show: false
      },
      {
        show: false
      },
      {
        show: false
      },
      {
        show: false
      }
    ],
    droppingBalls: []
  };
},
methods: {
  drop (el) {
    for(let i=0;i<this.balls.length;i++) {
      let ball = this.balls[i]
      if(!ball.show) {
        ball.show = true
        ball.el = el
        this.droppingBalls.push(ball)
        return
      }
    }
  }
},
transitions: {
  drop: {
    // 指定动画开始时的样式状态
    beforeEnter (el) {
      const ball = this.droppingBalls.shift()
      const rect = ball.el.getBoundingClientRect()
      const x = rect.left - 32
      const y = -(window.innerHeight-rect.top-22)

      el.style.transform = `translate3d(0, ${y}px, 0)`
      el.style.webkitTransform = `translate3d(0, ${y}px, 0)`
    }
  }
}

```

```

const innerEl = el.children[0]
innerEl.style.transform = `translate3d(${x}px, 0, 0)`
innerEl.style.webkitTransform = `translate3d(${x}px, 0, 0)`

// 将ball 保存到el 中, 给afterEnter 使用
el.ball = ball
},
// 指定动画结束时的样式状态
enter (el) {
  // 强制页面重绘(否则动画瞬间完成, 没有效果)
  const rf = el.offsetHeight
  // 异步指定动画结束时的样式
  this.$nextTick(function () {
    el.style.transform = `translate3d(0, 0, 0)`
    el.style.webkitTransform = `translate3d(0, 0, 0)`
    const innerEl = el.children[0]
    innerEl.style.transform = `translate3d(0, 0, 0)`
    innerEl.style.webkitTransform = `translate3d(0, 0, 0)`
  })
},
// 指定动画完成后调用
afterEnter (el) {
  el.ball.show = false // 重置为初始状态, 为了反复使用(此操作不会隐藏当前小球)
  el.style.display = 'none' // 手动隐藏
}
}
}
};
</script>

```

2.21. vue1.x 升级 vue2.x

1) 说明

- vue 从 1.x 升级到 2.x, 几乎 90% 的 API 和核心概念都没有变
- vue 官方提供了专门用于升级的工具库([迁移工具](#))

2) API 变化

* vue-router 变化

- * 初始化路由
- * v-link ==> <router-link>
- * keep-alive ==> <keep-alive>

* v-for 指令

- * 移除 \$index
- * v-for="(item, index) in items"

* v-el 与 v-ref 指令

- * ref 指令 ref='xxx'
- * this.\$refs.xxx

* 组件的模板

- * 只允许有一个根标签

* 组件间通信

- * \$dispatch()/broadcast() 被移除, 只留下 \$emit
- * events 选项被移除, 通过 v-on 指令绑定监听
- * 不能直接在子组件中修改父组件传入的 prop

* 过渡

- * <transition>
- * transitions 选项被移除
- * 过滤 css

.fade-enter: 进入的开始状态(不可见), 在此指定进入显示前不可见的样式

.fade-leave-active: 离开的结束状态(不可见), 在此指定离开后不可见的样式
.fade-enter-active: 进入的结束状态(可见), 在此指定显示的 transition
.fade-leave-active: 离开的结束状态(不可见),在此指定隐藏的 transition

* JS 动画

```
<transition name="drop"
  @before-enter="beforeDrop"
  @enter="dropping"
  @after-enter="afterDrop"
  v-bind:css="false">
```

* 虚拟 DOM/组件的生命周期

* 生命周期回调函数有增减

* 移除: ready()

* 增加: mounted() / beforeUpdate() / afterUpdate()

3) 操作

- 使用 vue-cli 下载基于 vue2 + vue-router2 的项目
- 下载其它依赖的包

```
npm install better-scroll mockjs moment vue-resource --save
npm install stylus stylus-loader --save-dev
```

```
npm install pubsub-js --save
```

- 将项目代码拷贝到新项目对应目录下
- 下载并使用 vue 的迁移工具进行升级

```
# install
```

```
npm install --global vue-migration-helper
```

```
# navigate to a Vue 1.x project directory cd path/to/my-vue-project
```

```
# scan all files in the current directory
```

```
vue-migration-helper# scan all files in specific sub-directories
```

```
vue-migration-helper src folder-a folder-b
```