

打造极致体验的H5电商架构

微店秒开项目实践

车明君

A decorative graphic at the bottom of the slide consisting of several overlapping, wavy lines in blue, green, yellow, and red, creating a sense of motion and modern design.



性能为先

抛开性能谈体验都是耍流氓

页面加载速度每提高1秒，流量增加20%，转化率增加2%...反之，如果超过4秒，25%的用户会选择离开...

用户最满意的打开网页时间是2-5秒，如果等待超过10秒，99%的用户会关闭这个网页

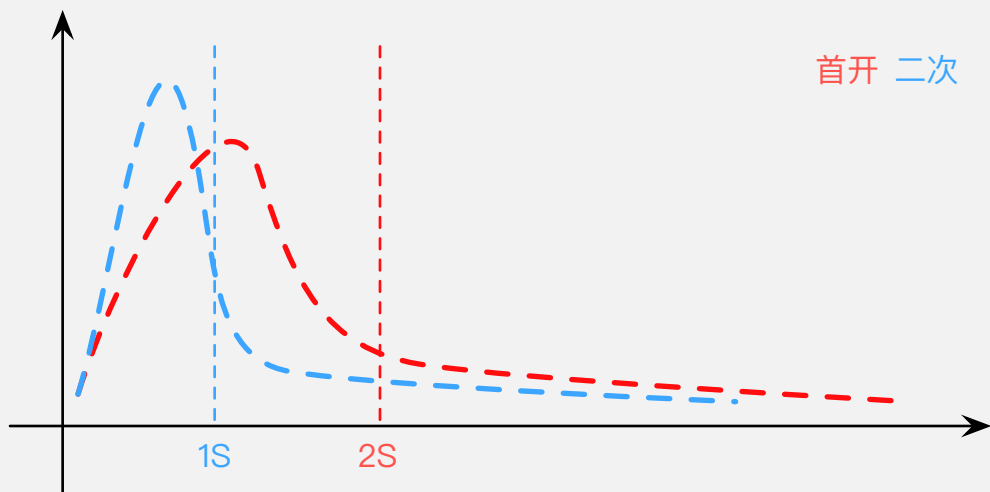
Google网站访问速度每慢400ms就导致用户搜索请求下降0.59%;Amazon每增加100ms网站延迟将导致收入下降1%;雅虎如果有400ms延迟会导致流量下降5-9%

...

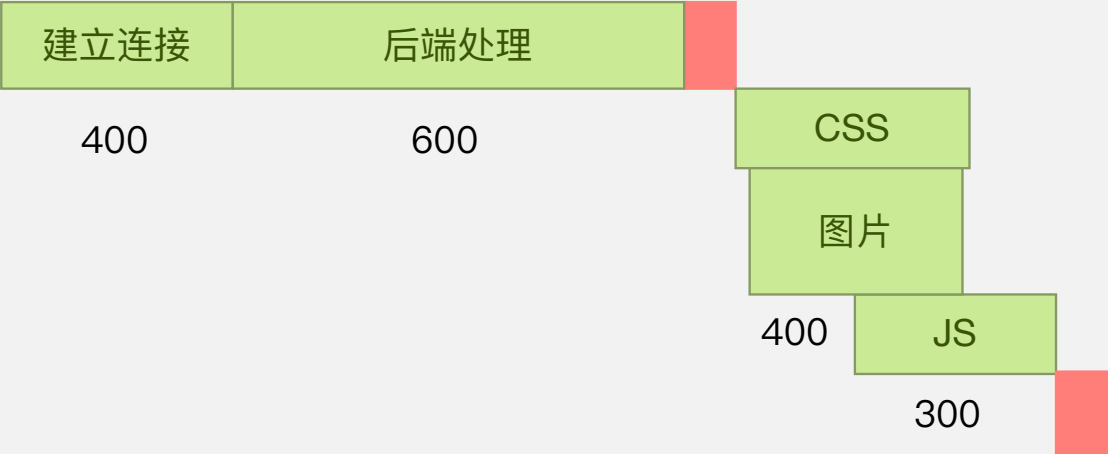


性能为先

微店性能要求 (4G)

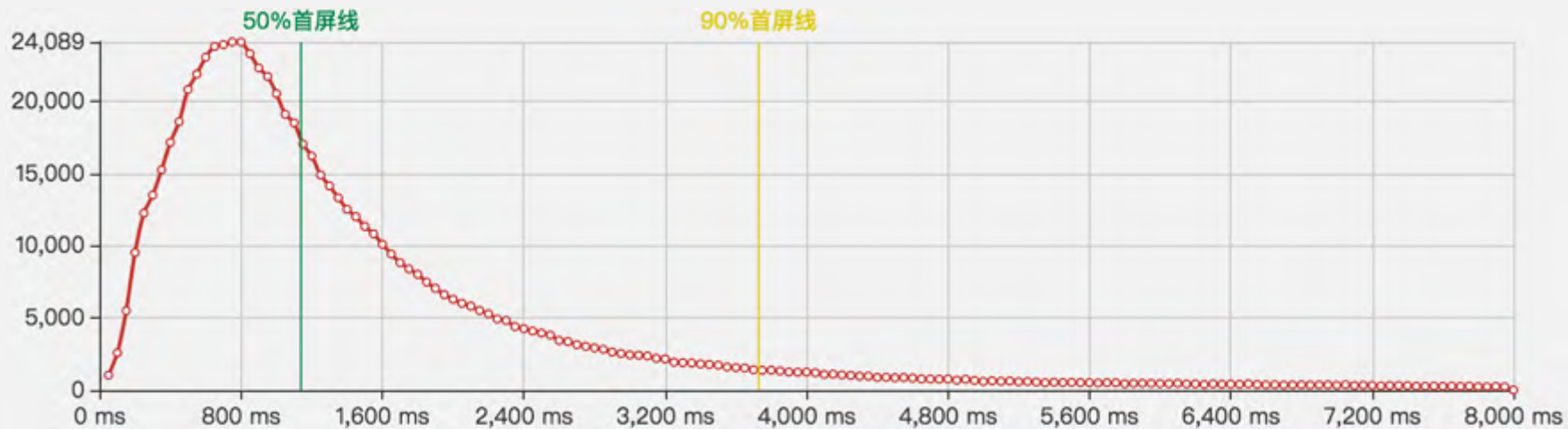


目标由来

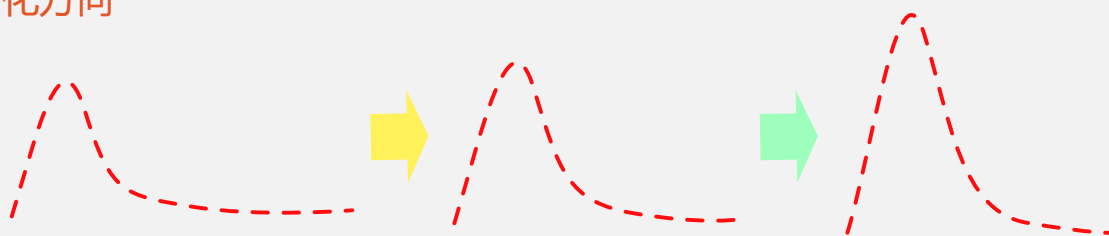




全渠道背景下的事（幂）实（率）分布



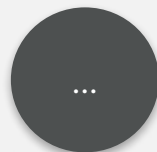
演化方向



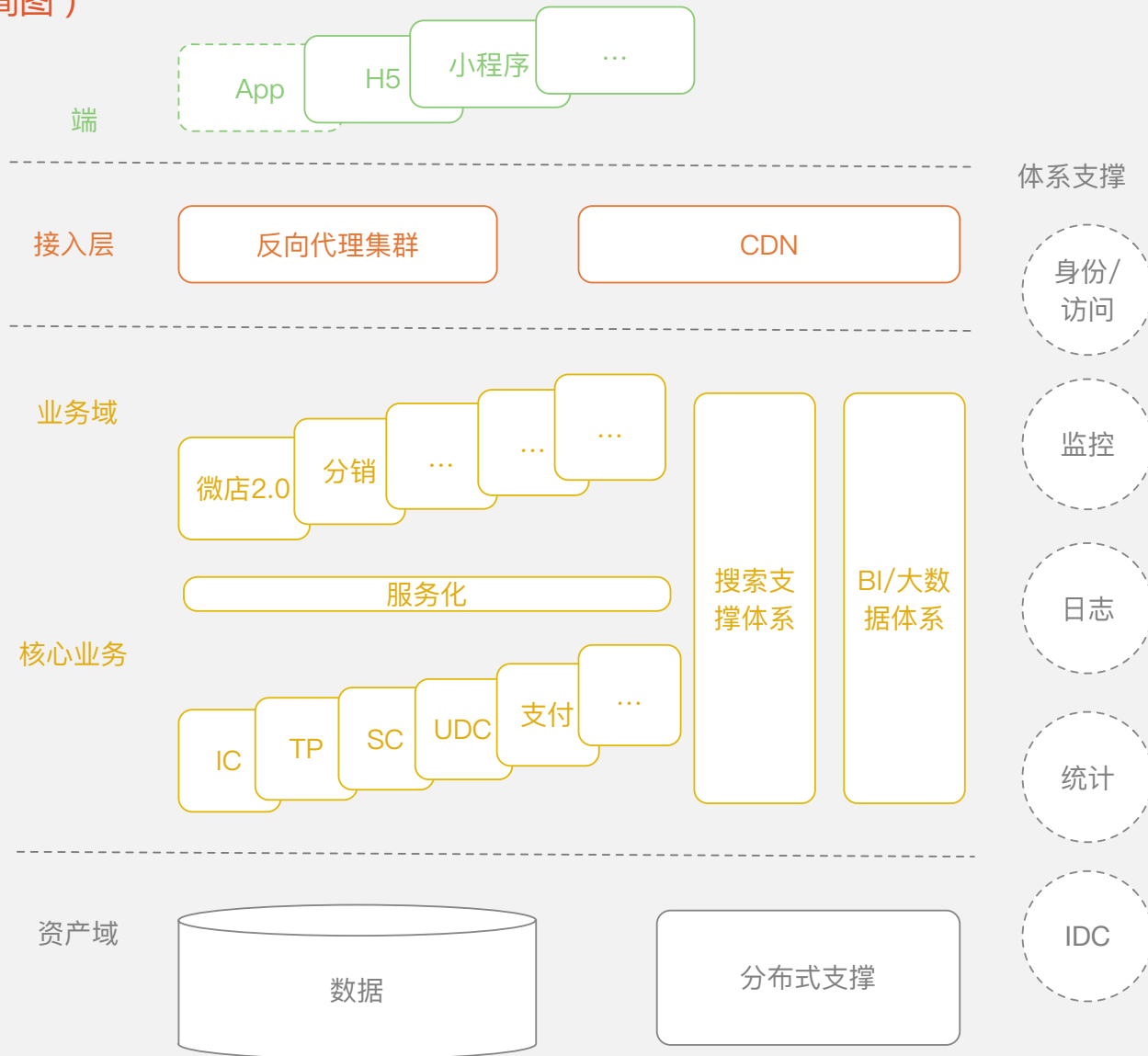


性能分布

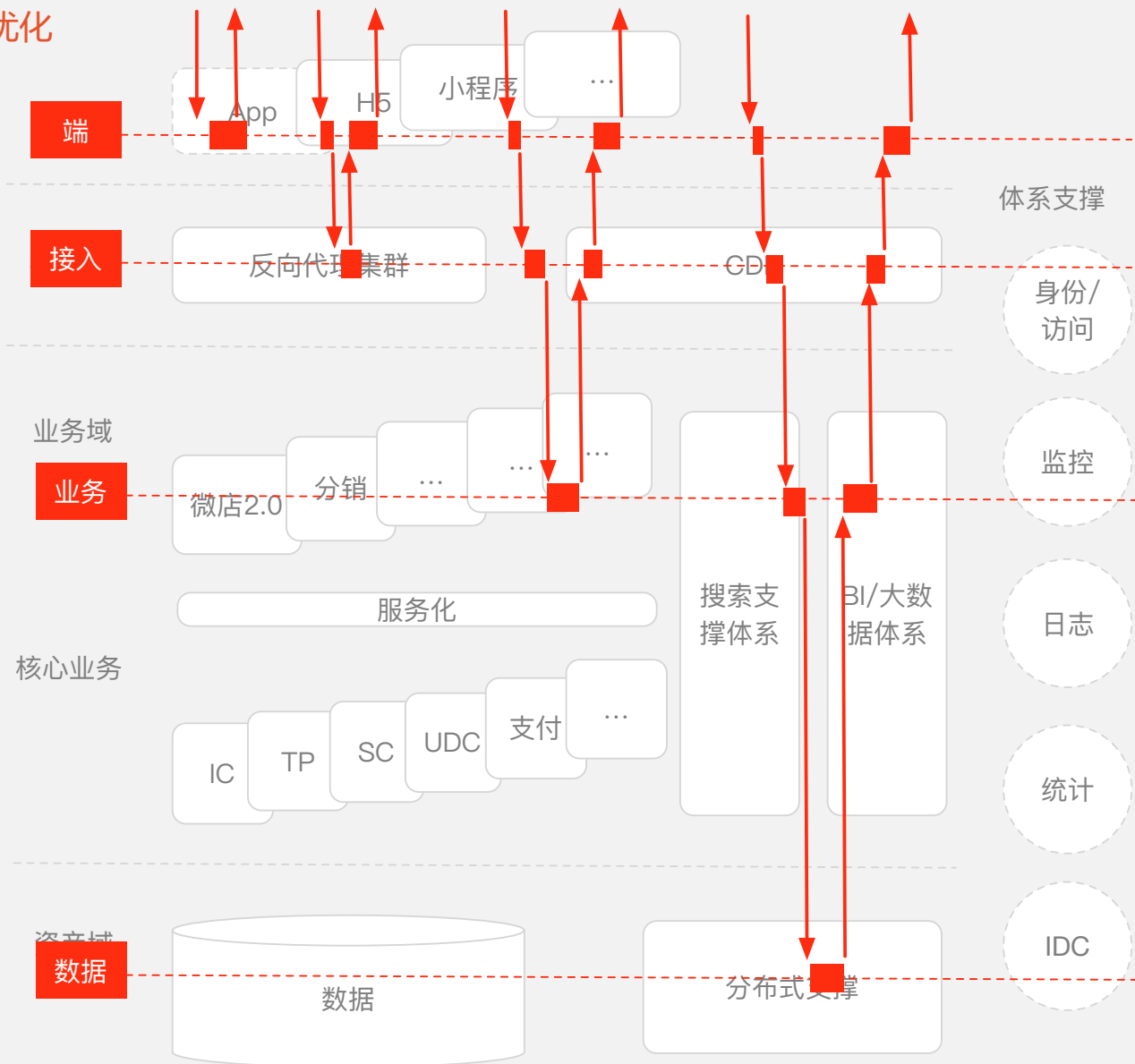
问题分析



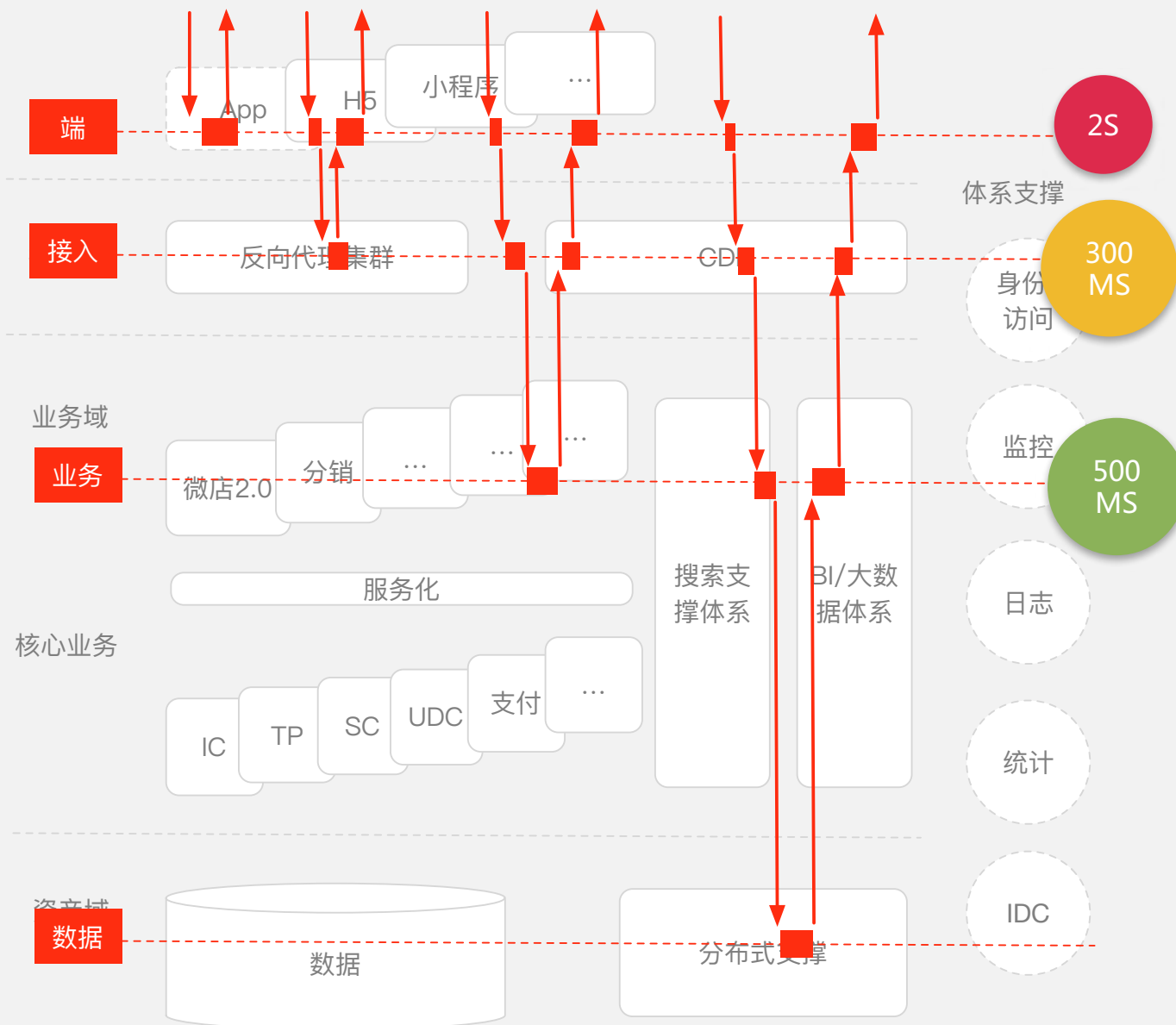
总体架构 (简图)



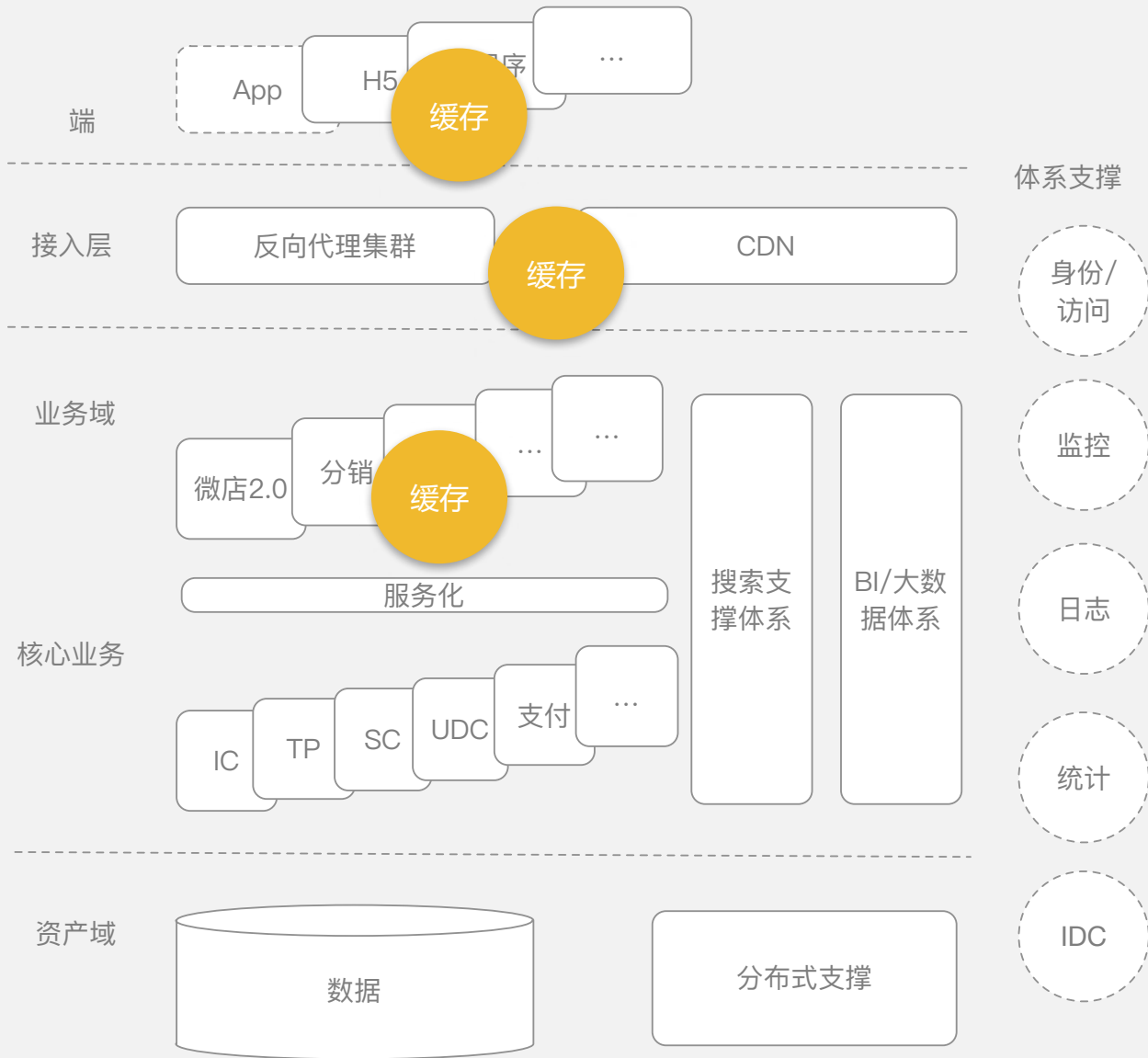
链路分析及优化



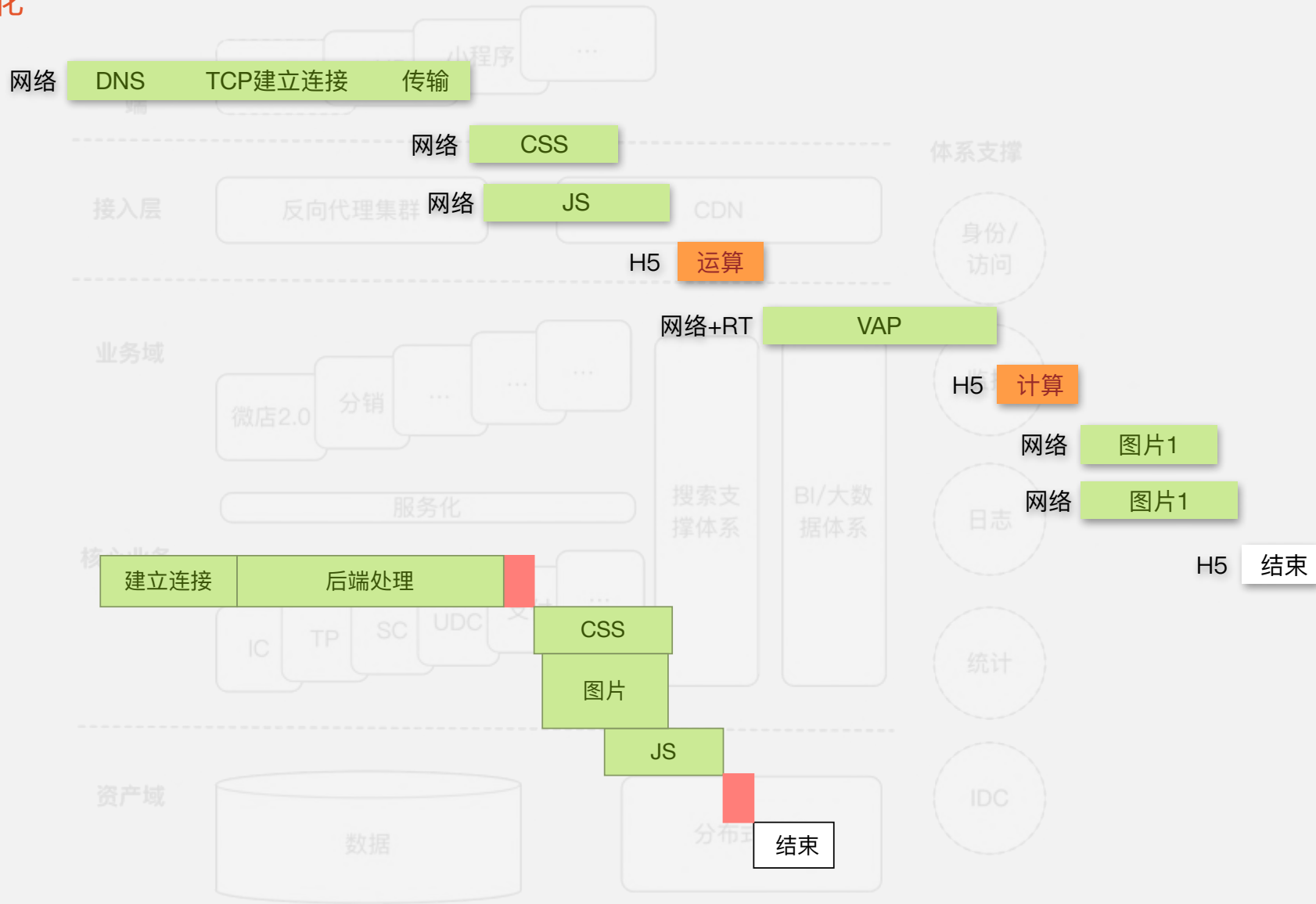
RT



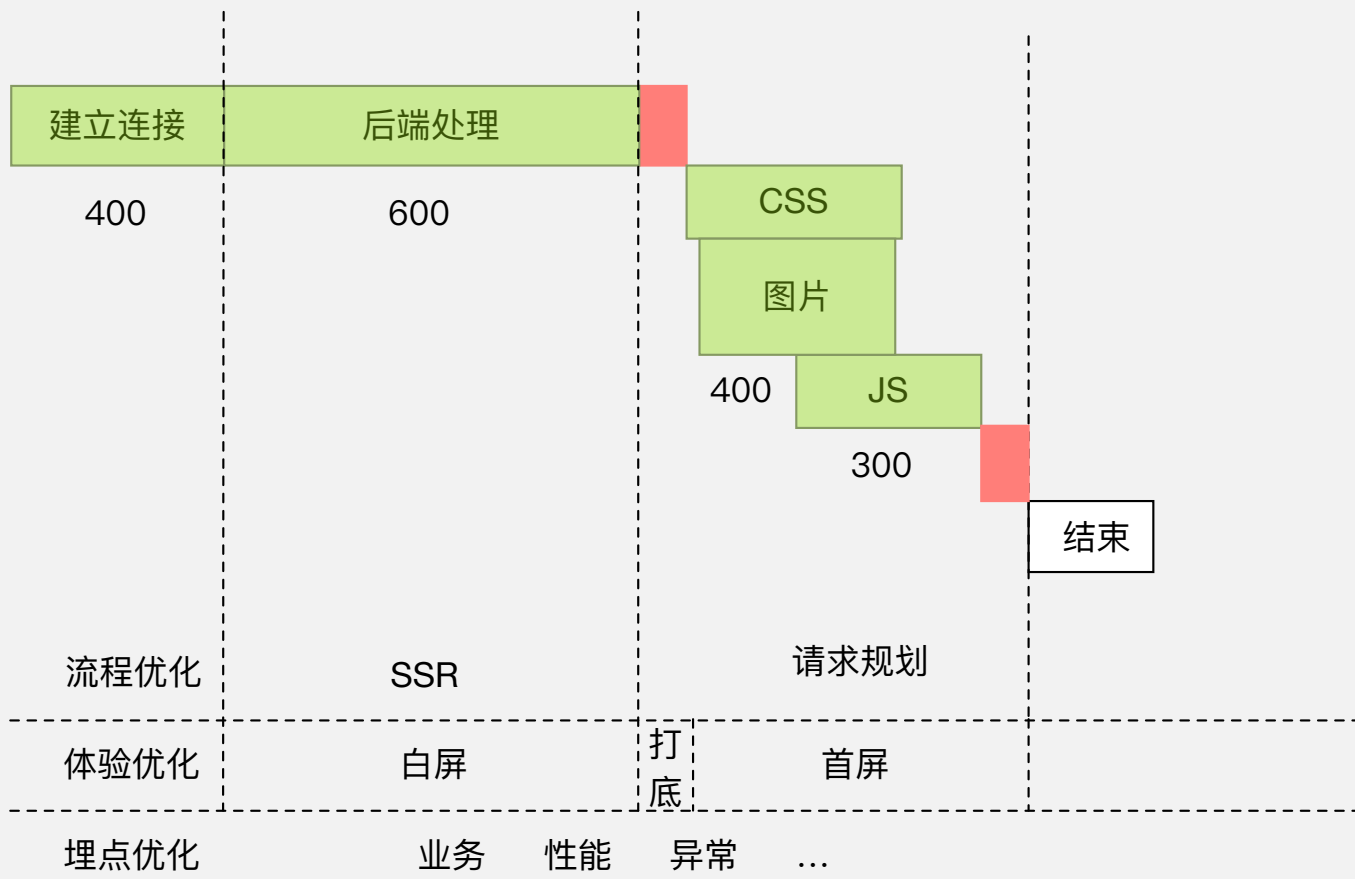
流程优化



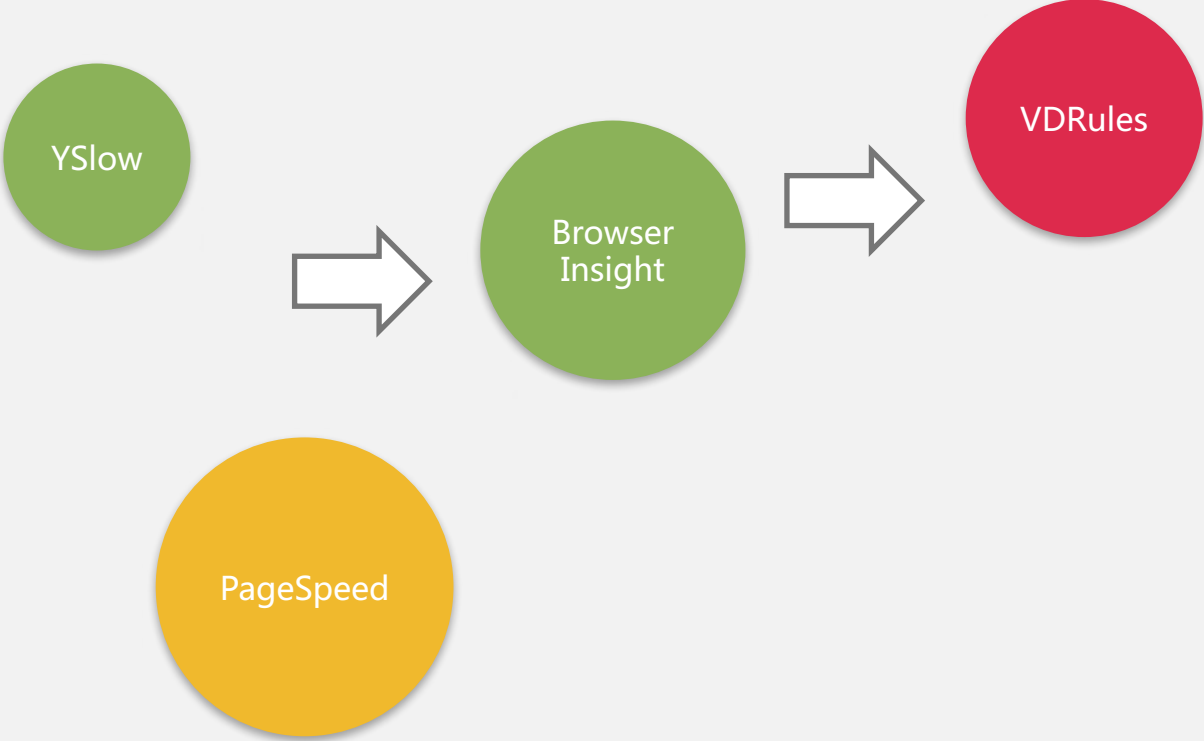
流程优化



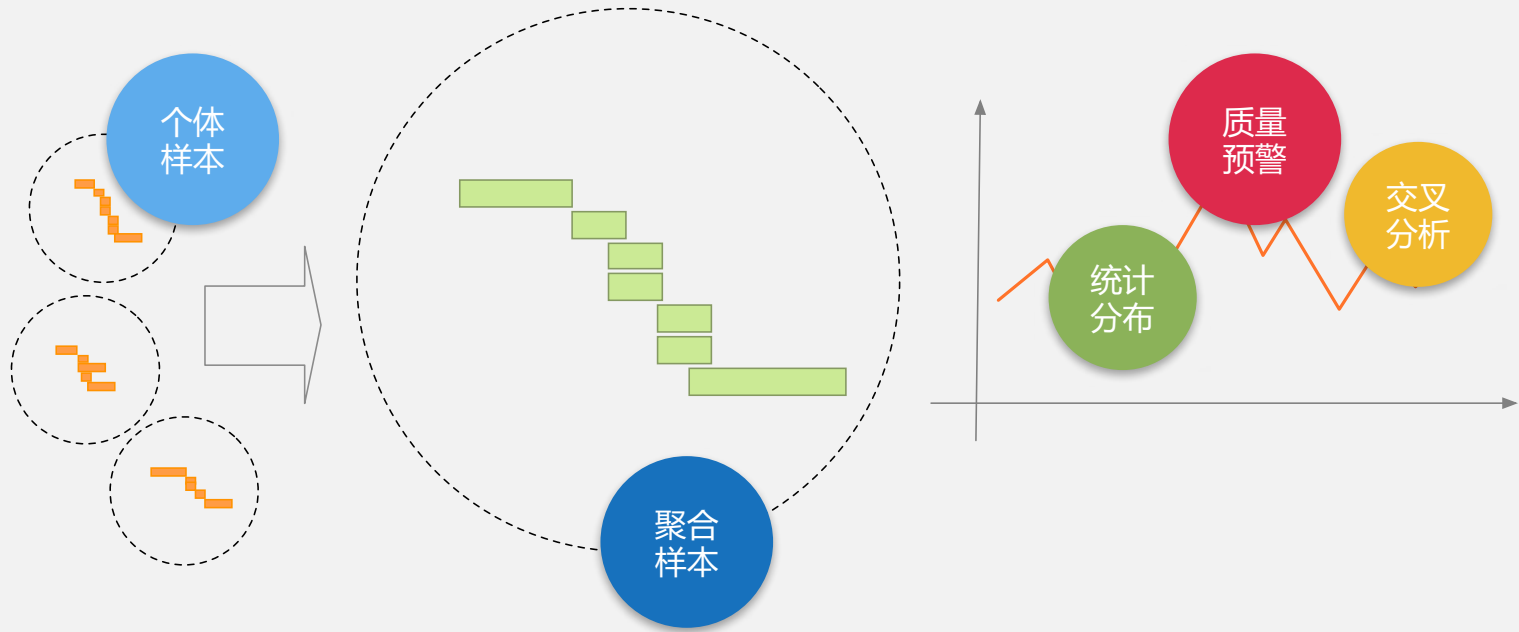
质量/前端



度量模型

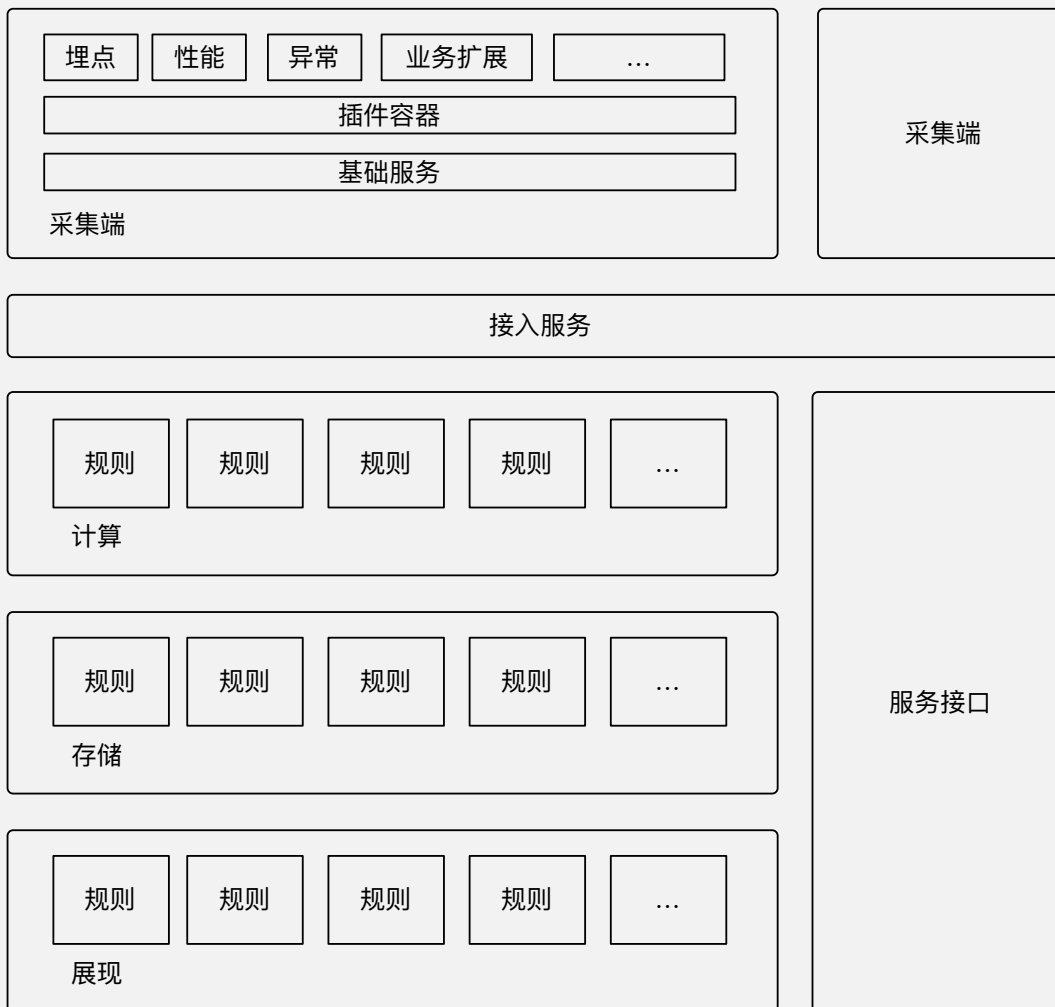


建设思路

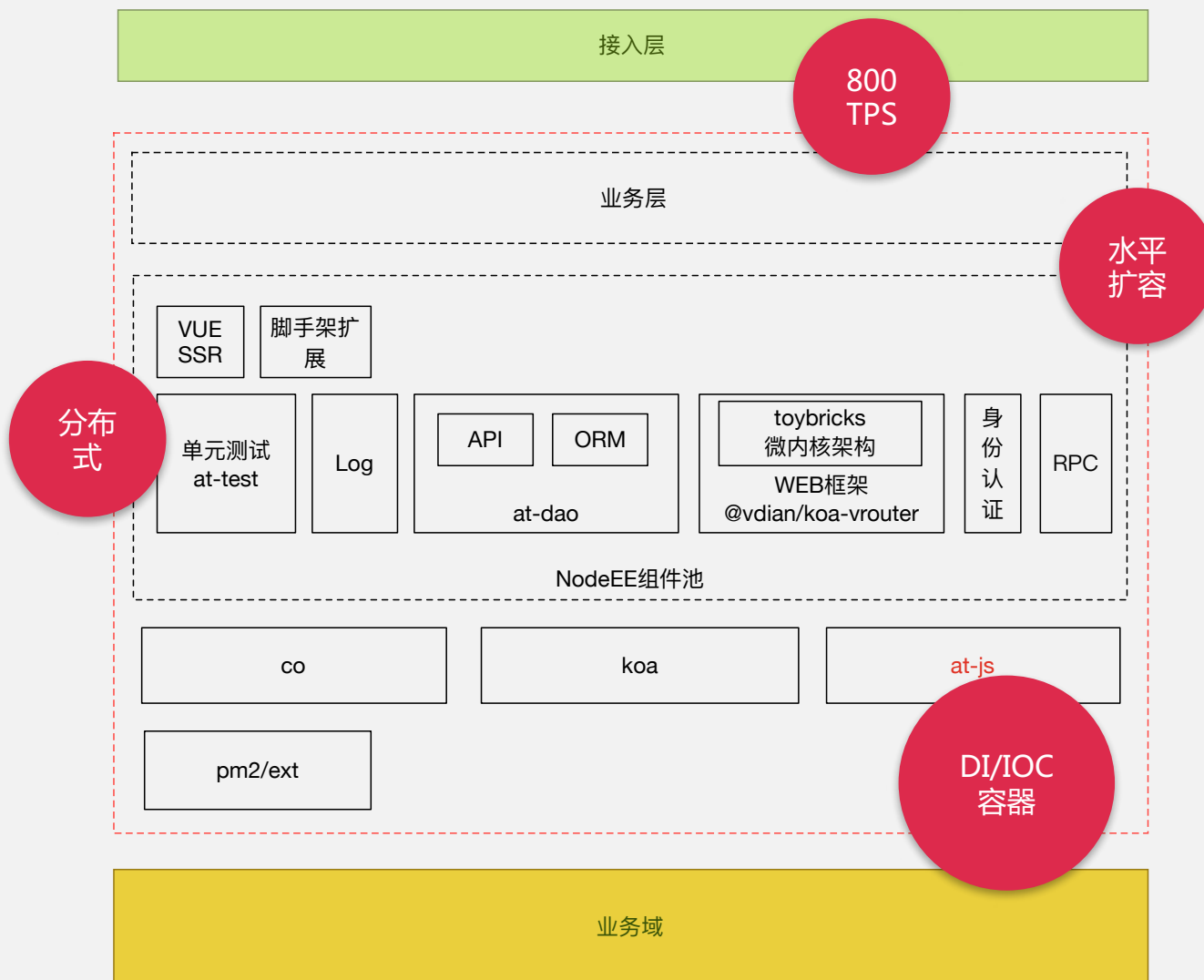




系统架构



微店NodeEE





实践总结 (前端)

微店NodeEE / 基于 at-js 的 DAO

```
'@dao.column(name=url)';  
var url;  
  
'@dao.column(name=gmt_create)';  
var createTime = function (_time) {  
  var mm = require('moment');  
  return mm(_time).format("YYYY-MM-DD  
HH:mm:ss");  
}
```

at-dao 参考 <https://github.com/CheMingjun/at-dao>



实践总结 (前端)

微店NodeEE / 基于 at-js 的 IOC

```
'@logger';  
var logger = {}
```

```
logger.info('Here is a info msg.')
```

at-js 参考 <https://github.com/CheMingjun/at-js>



微店NodeEE / 基于 at-js 的 单元测试

```
var assert = require('assert');  
var ds = null;
```

```
'@test.start';  
var start = function () {  
  ds = {};  
}
```

```
'@test.step(timeout=2000)';  
var test0 = function* () {  
  ds.test0 = 'finish';  
  var rtn = yield (function(){  
    return function(_next){  
      setTimeout(function(){  
        _next(null,3);  
      },2000)  
    }  
  })();  
  assert.equal(rtn,3);  
}
```

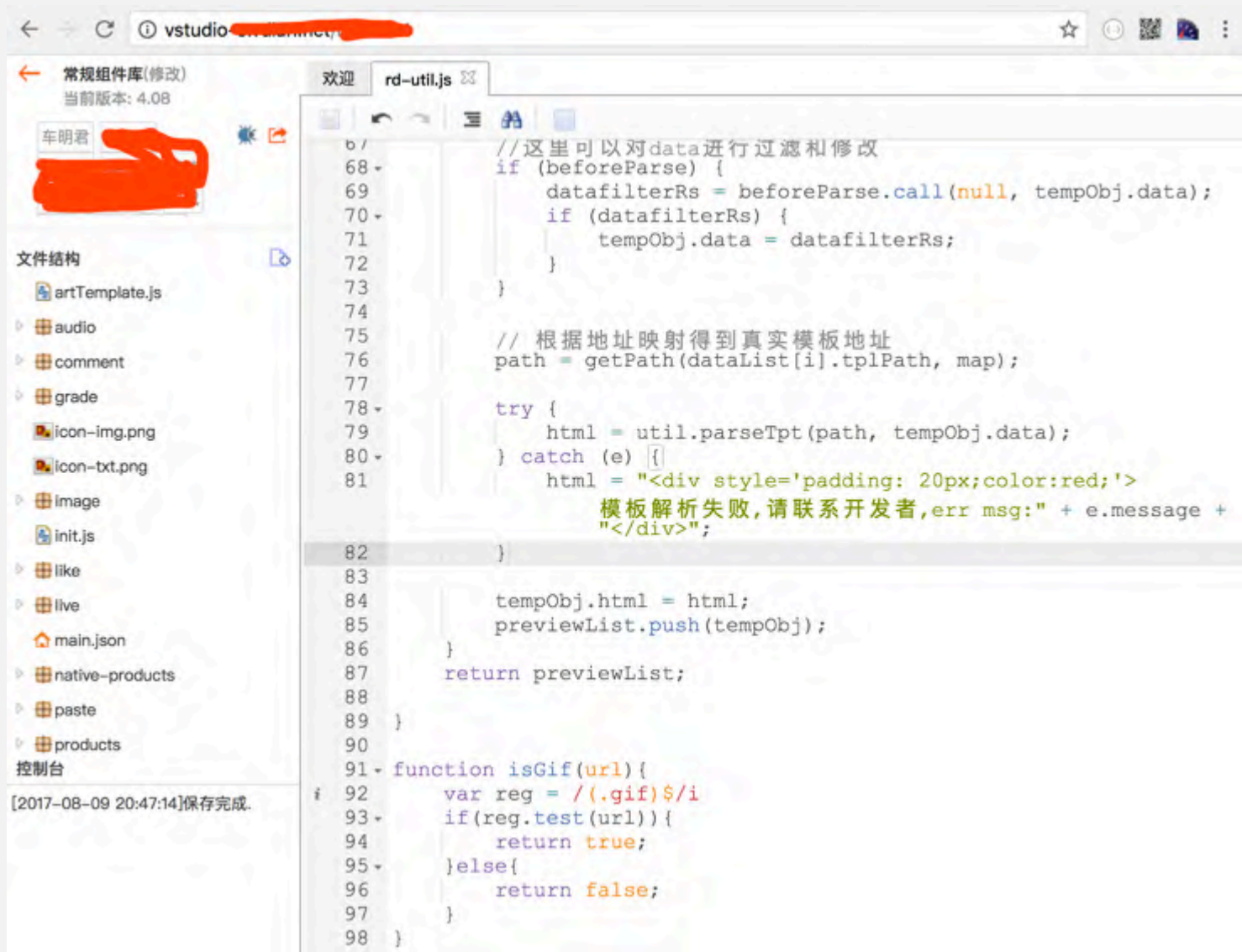
```
'@test.step';  
var test1 = function () {  
  ds.test1 = 'finish';  
  return ds;  
}
```

at-test 参考 <https://github.com/CheMingjun/at-test>

VStudio云端生产力平台



云端生产力协作平台 Vstudio



```
67 //这里可以对data进行过滤和修改
68 if (beforeParse) {
69     datafilterRs = beforeParse.call(null, tempObj.data);
70     if (datafilterRs) {
71         tempObj.data = datafilterRs;
72     }
73 }
74
75 // 根据地址映射得到真实模板地址
76 path = getPath(dataList[i].tplPath, map);
77
78 try {
79     html = util.parseTpt(path, tempObj.data);
80 } catch (e) {
81     html = "<div style='padding: 20px;color:red;'>
            模板解析失败,请联系开发者,err msg:" + e.message +
            "</div>";
82 }
83
84 tempObj.html = html;
85 previewList.push(tempObj);
86 }
87 return previewList;
88 }
89 }
90
91 function isGif(url) {
92     var reg = /\.(gif)$/i
93     if(reg.test(url)) {
94         return true;
95     }else{
96         return false;
97     }
98 }
```



实践总结（前端）

微店前端开源列表

NodeEE

Vbuilder

Hotpot

VueBook

...

欢迎大家关注微店技术，敬请期待

致谢

联系作者
微信号 ALJZJZ

