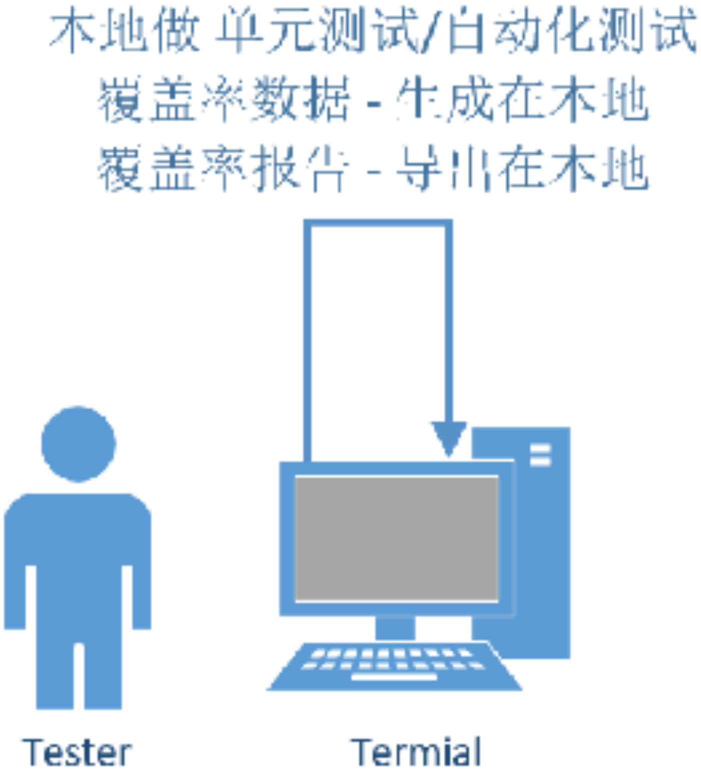
JS覆盖率统计平台

Build a JS Coverage Statistical Platform Based on Istanbul

酷家乐　银时

使用场景001 和 三个JS覆盖率统计工具



本地做 单元测试/自动化测试

覆盖率数据 - 生成在本地

覆盖率报告 - 导出在本地

使用场景001 和 三个JS覆盖率统计工具

ScriptCover

浏览器插件，使用方便，但Chrome商店已下架；
无需预插桩即可监控browser运行js代码，拿混淆后的代码毫无办法；
开源，但已停止维护；

Istanbul

覆盖率统计插件，可配多种各种UT框架和自动化框架使用；
编译时预插桩，代码在UT或browser运行时都可统计覆盖率；
开源，旧版已停止维护，新版(请搜nyc)维护的很好；
Js写的，可扩展；

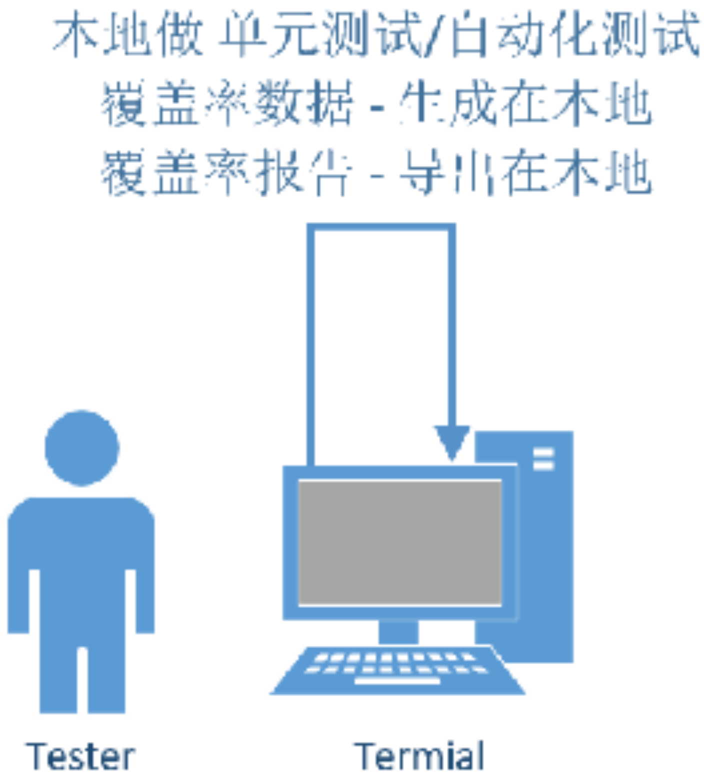
JsCoverage

单测覆盖率统计插件，可配多种各种UT框架和自动化框架使用；
编译时预插桩，代码在UT或browser运行时都可统计覆盖率；
开源，旧版已停止维护，新版(请搜JsCover)维护的很好；
Java写的，可扩展；和 Istanbul 非常的像；

karma-coverage

Karma 的插件，基于 Istanbul 写的；
如果用 Karma 做自动化，使用很方便；
较定制化，可模仿但不好直接扩展；

使用场景001 和 三个JS覆盖率统计工具



本地做 单元测试/自动化测试

覆盖率数据 - 生成在本地

覆盖率报告 - 导出在本地

单版本，单次测试

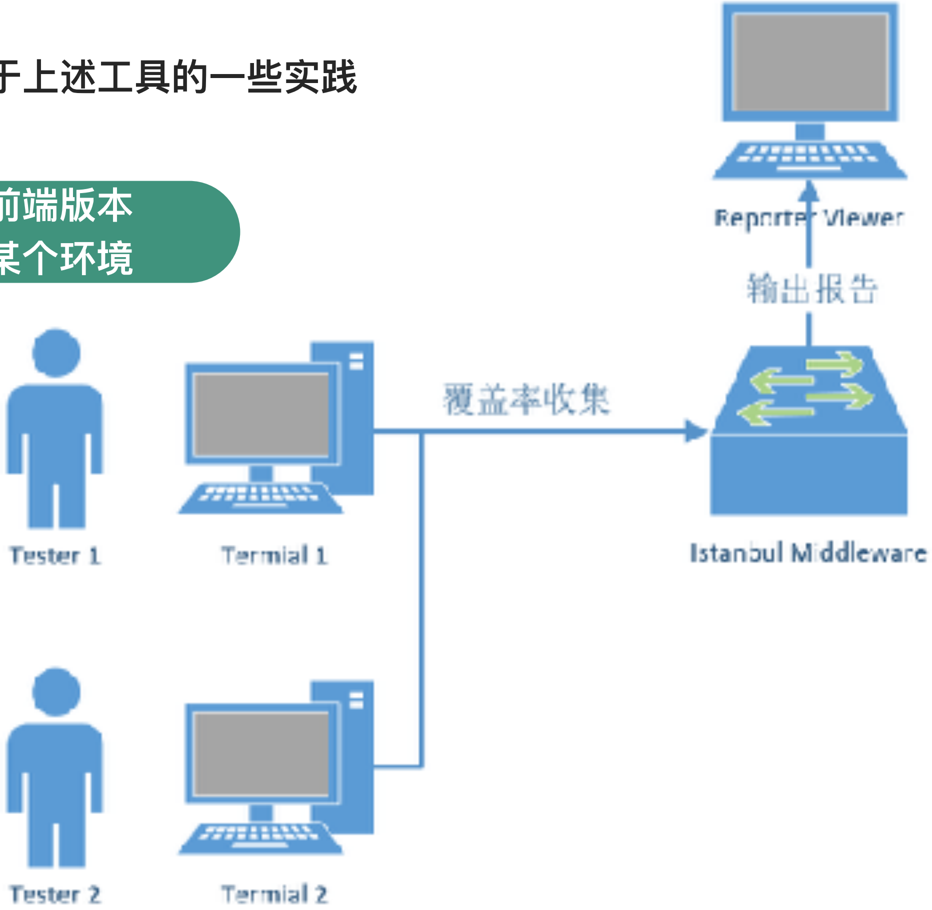
一般用于单元测试、前端自动化

报告生成在本地

~~不支持多次测试覆盖率叠加~~

使用场景002 和 基于上述工具的一些实践

打包一个前端版本
并部署在某个环境



实时统计，
实时出报告

多个测试 并行测试
或运行自动化

使用场景002 和 基于上述工具的一些实践

Istanbul-Middleware

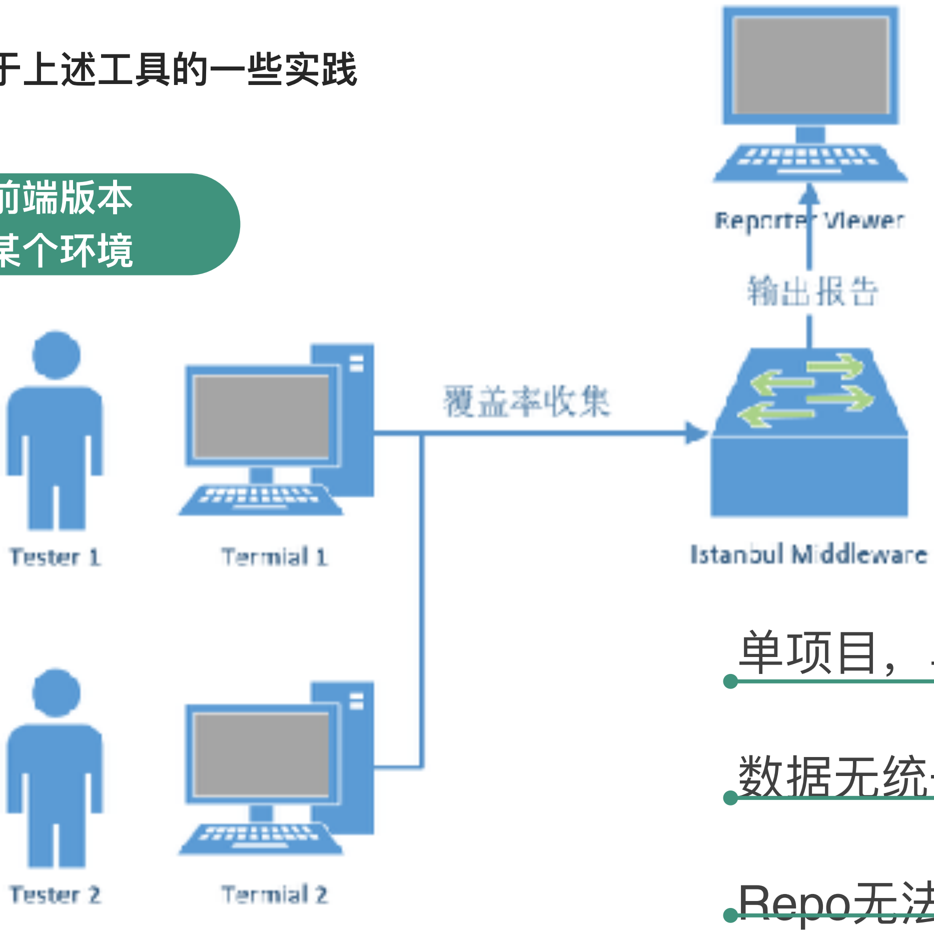
基于 Istanbul 写的中间件；
需要前端代码预插桩并调用 middleware 提供的数据上传接口；
可统计一个前端工程在多个终端、多种方式测试的总覆盖率；
官方，开源，可扩展性强。

JsCover++

基于 JsCover 写的服务；
和 Istanbul-Middleware 很相似，但更定制化；
没开源。

使用场景002 和 基于上述工具的一些实践

打包一个前端版本
并部署在某个环境



实时统计，
实时出报告

多个测试并行测试
或运行自动化

单项目，单版本

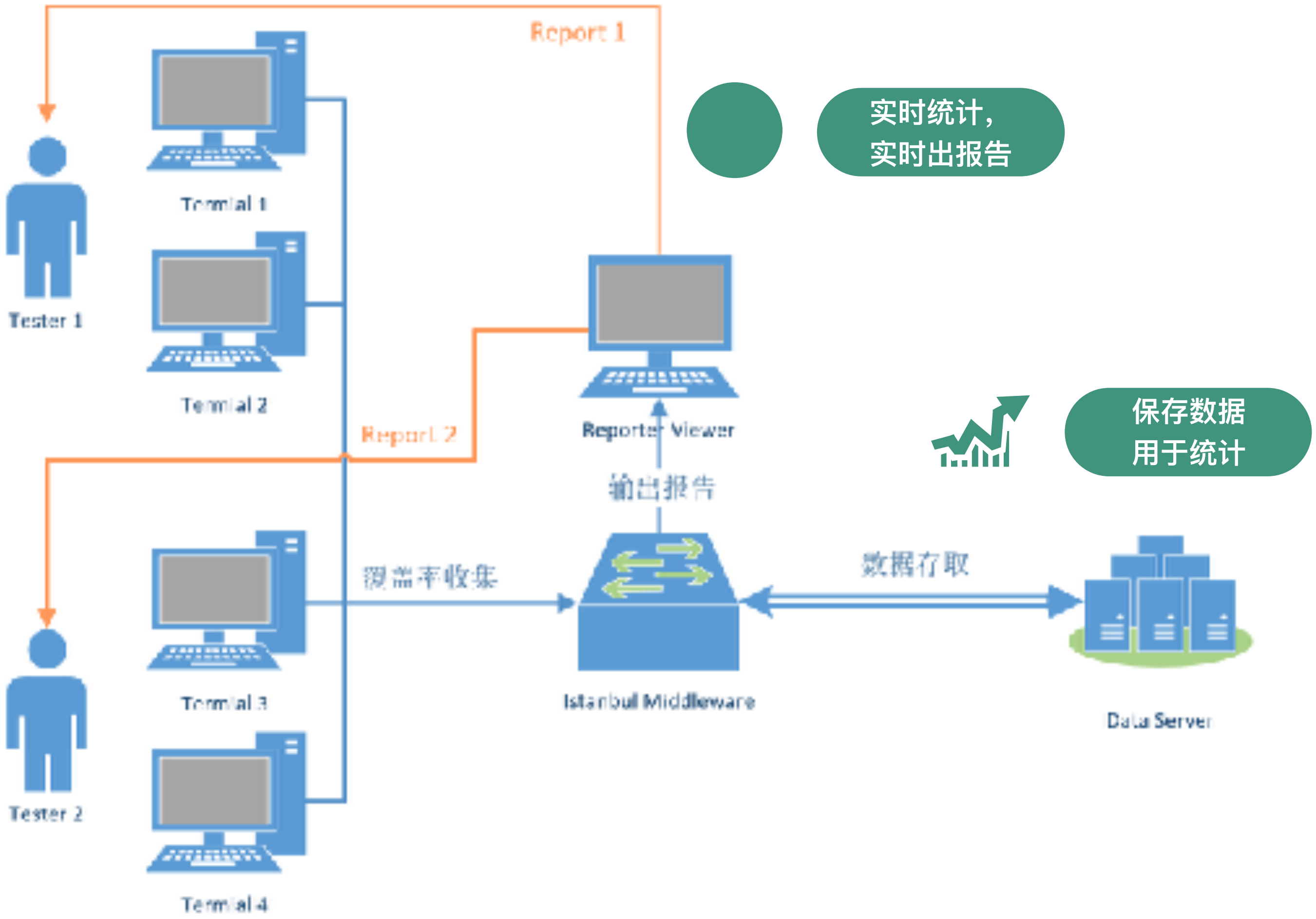
数据无统一管理，只能导成文件

Repo无法自动匹配更新

使用场景003 和 基于Istanbul的改造

打包多工程的前端版本
部署多个环境

测试各自测负责的版本
功能测试+自动化



实时统计，
实时出报告

保存数据
用于统计

使用场景003 和 基于Istanbul的改造

如何使用istanbul-midleware

部署middleware

找个环境部署 Istanbul-middleware

使 默认接口可用

插桩

使用Istanbul的插件给前端代码插桩

Link

浏览器运行插桩后代码

查看 window.__coverage__

Link

调用middleware的接口

前端代码调用 middleware/coverage/client 接口

Link

查看报告

浏览器打开网页 middleware/coverage

Link

使用场景003 和 基于Istanbul的改造

如果说，我们要满足这样的测试场景?

我这样设计架构
Link

我这样设计数据库
Link

我这样设计接口
Link

最后的效果
Link

我们有好多个 Repo 分别统计

每个Repo部署多个 环境 分别统计

每个环境有多个版本 版本 分别统计

使用场景003 和 基于Istanbul的改造

我还有哪些没做的?

01

代码Diff，支持增量覆盖率统计

02

基于代码Diff，支持多个版本的覆盖率数据 Merge

03

可视化统计各工程、各版本覆盖率数据

酷家乐技术质量 知乎主页

酷家乐 官方技术博客

以下是 截图素材

截图—如何插桩

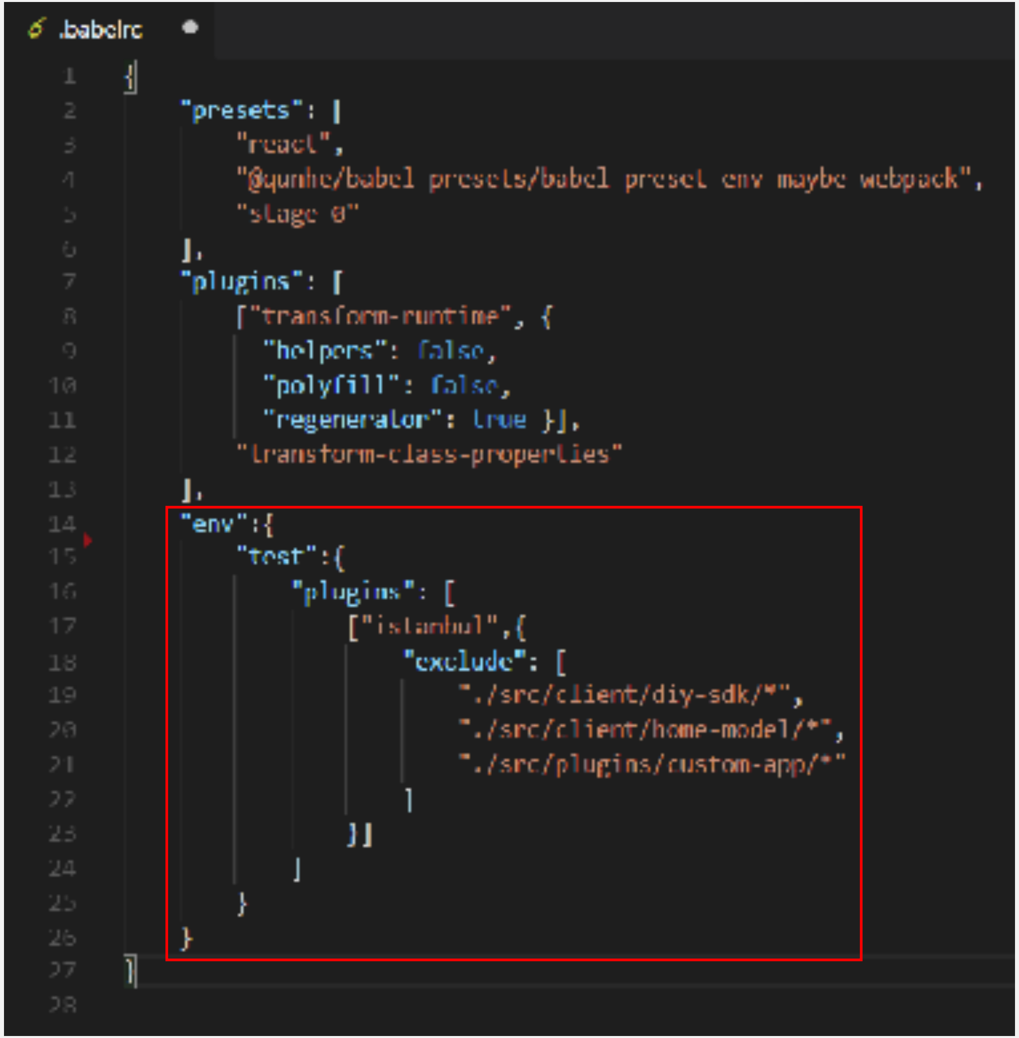
以酷家乐的某个前端repo为例：

它使用babel编译打包，可使用babel-plugin-Istanbul插桩

请参考：github.com/istanbuljs/babel-plugin-istanbul

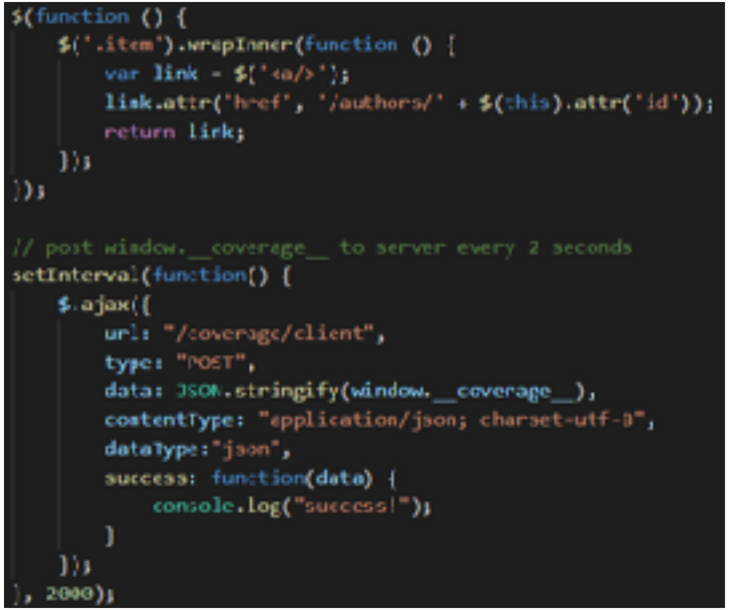
对于其他类型的JS前端工程，

请参考：github.com/istanbuljs/nyc

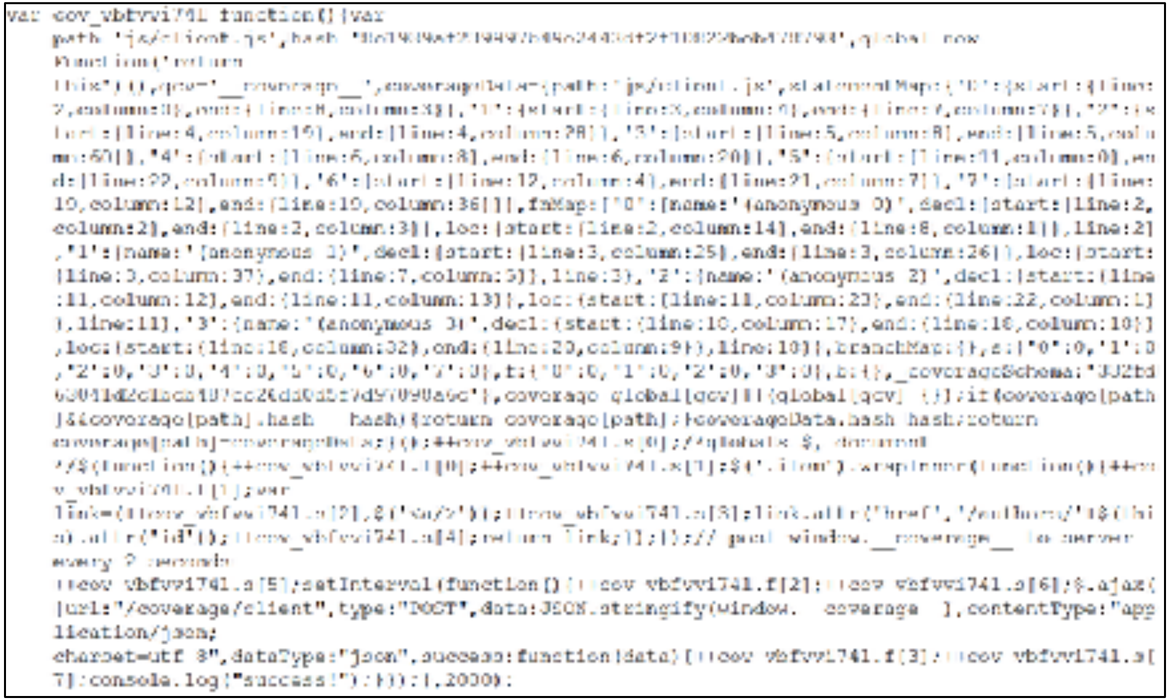


```
{
    "presets": [
        "react",
        "@qunhe/babel-presets/babel-preset-env-maybe-webpack",
        "stage-0"
    ],
    "plugins": [
        ["transform-runtime", {
          "helpers": false,
          "polyfill": false,
          "regenerator": true }],
        "transform-class-properties"
    ],
    "env":{
        "test":{
            "plugins": [
                ["istanbul",{
                    "exclude": [
                        "./src/client/diy-sdk/*",
                        "./src/client/home-model/*",
                        "./src/plugins/custom-app/*"
                    ]
                }]
            ]
        }
    }
}
```

截图—插桩前后代码对比



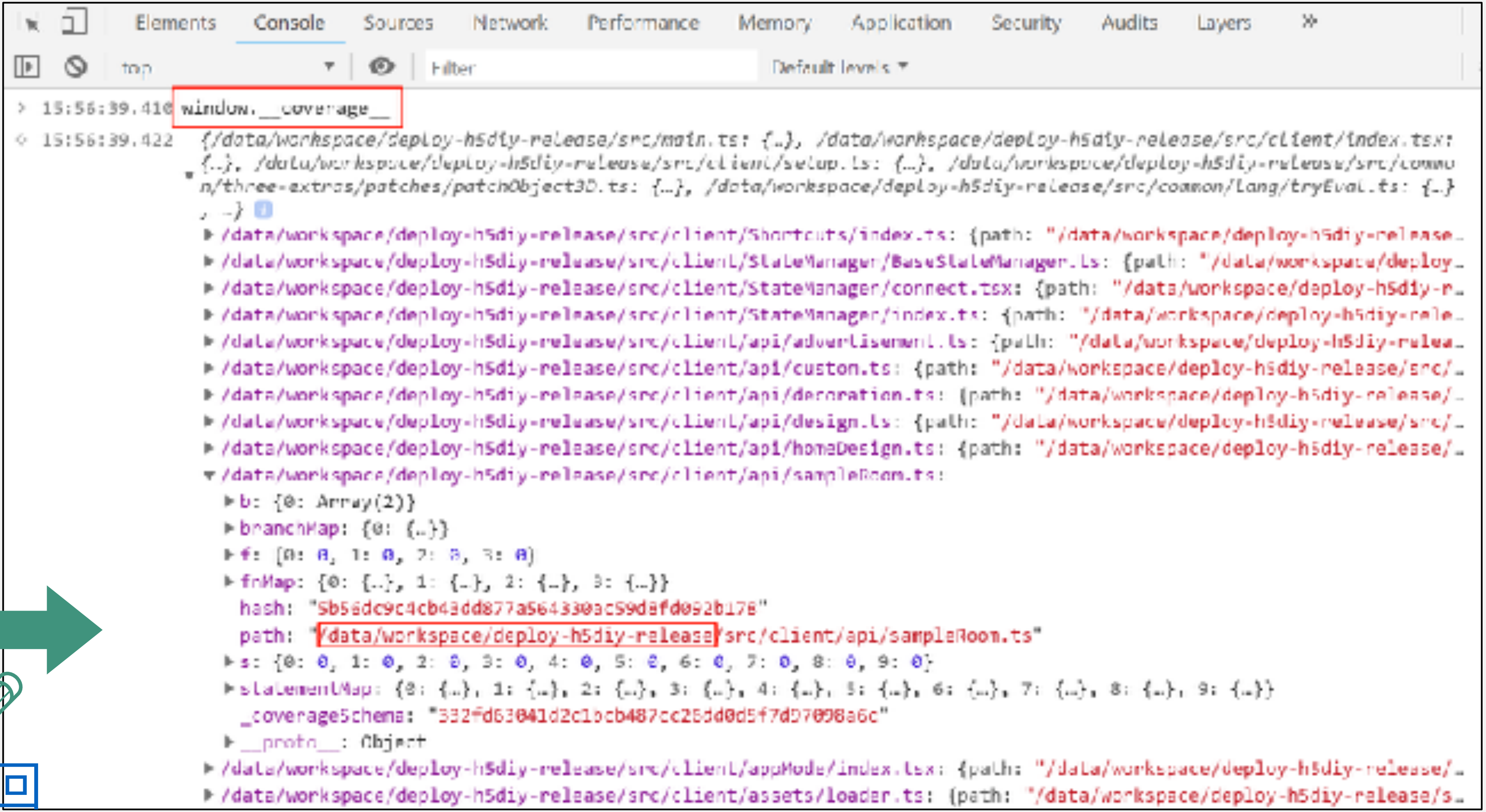
```
$(function () {
    $('.item').wrapInner(function () {
        var link = $('<a/>');
        link.attr('href', '/authors/' + $(this).attr('id'));
        return link;
    });
});

// post window.__coverage__ to server every 2 seconds
setInterval(function() {
    $.ajax({
        url: "/coverage/client",
        type: "POST",
        data: JSON.stringify(window.__coverage__),
        contentType: "application/json; charset=utf-8",
        dataType:"json",
        success: function(data) {
            console.log("success!");
        }
    });
}, 2000);
```



```
var cov_vbfvvi741 function(){var
    path 'js/client.js',hash '[illegible]',global new
    Function('return
    this')(),gcv='__coverage__',coverageData={path:'js/client.js',statementMap:{'0':{start:{line:
    2,column:0},end:{line:8,column:3}},'1':{start:{line:3,column:4},end:{line:7,column:7}},'2':{s
    tart:{line:4,column:15},end:{line:4,column:28}},'3':{start:{line:5,column:8},end:{line:5,colu
    mn:60}},'4':{start:{line:6,column:8},end:{line:6,column:20}},'5':{start:{line:11,column:0},en
    d:{line:22,column:5}},'6':{start:{line:12,column:4},end:{line:21,column:7}},'7':{start:{line:
    10,column:12},end:{line:10,column:36}}},fnMap:{'0':{name:'(anonymous 0)',decl:{start:{line:2,
    column:2},end:{line:2,column:3}},loc:{start:{line:2,column:14},end:{line:8,column:1}},line:2}
    ,'1':{name:'(anonymous 1)',decl:{start:{line:3,column:25},end:{line:3,column:26}},loc:{start:
    {line:3,column:37},end:{line:7,column:5}},line:3},'2':{name:'(anonymous 2)',decl:{start:{line
    :11,column:12},end:{line:11,column:13}},loc:{start:{line:11,column:23},end:{line:22,column:1}
    },line:11},'3':{name:'(anonymous 3)',decl:{start:{line:10,column:17},end:{line:16,column:10}}
    ,loc:{start:{line:16,column:32},end:{line:20,column:9}},line:10}},branchMap:{},s:{'0':0,'1':0
    ,'2':0,'3':0,'4':0,'5':0,'6':0,'7':0},f:{'0':0,'1':0,'2':0,'3':0},b:{},_coverageSchema:'332bd
    63041d2c1bcb187cc26dd0d5f7d97090a6c'},coverage global[gcv]||(global[gcv] {});if(coverage[path
    ]&&coverage[path].hash   hash){return coverage[path];}coverageData.hash hash;return
    coverage[path]=coverageData;}();++cov_vbfvvi741.s[0];/*globals $, document
    */$(function(){++cov_vbfvvi741.f[0];++cov_vbfvvi741.s[1];$('.item').wrapInner(function(){++co
    v_vbfvvi741.f[1];var
    link=(++cov_vbfvvi741.s[2],$('<a/>'));++cov_vbfvvi741.s[3];link.attr('href','/authors/'+$(thi
    s).attr("id"));++cov_vbfvvi741.s[4];return link;});});// post window.__coverage__ to server
    every 2 seconds
    ++cov vbfvvi741.s[5];setInterval(function(){++cov vbfvvi741.f[2];++cov vbfvvi741.s[6];$.ajax(
    {url:"/coverage/client",type:"POST",data:JSON.stringify(window.__coverage__),contentType:"app
    lication/json;
    charset=utf 8",dataType:"json",success:function(data){++cov vbfvvi741.f[3];++cov vbfvvi741.s[
    7];console.log("success!");}});},2000);
```

返回

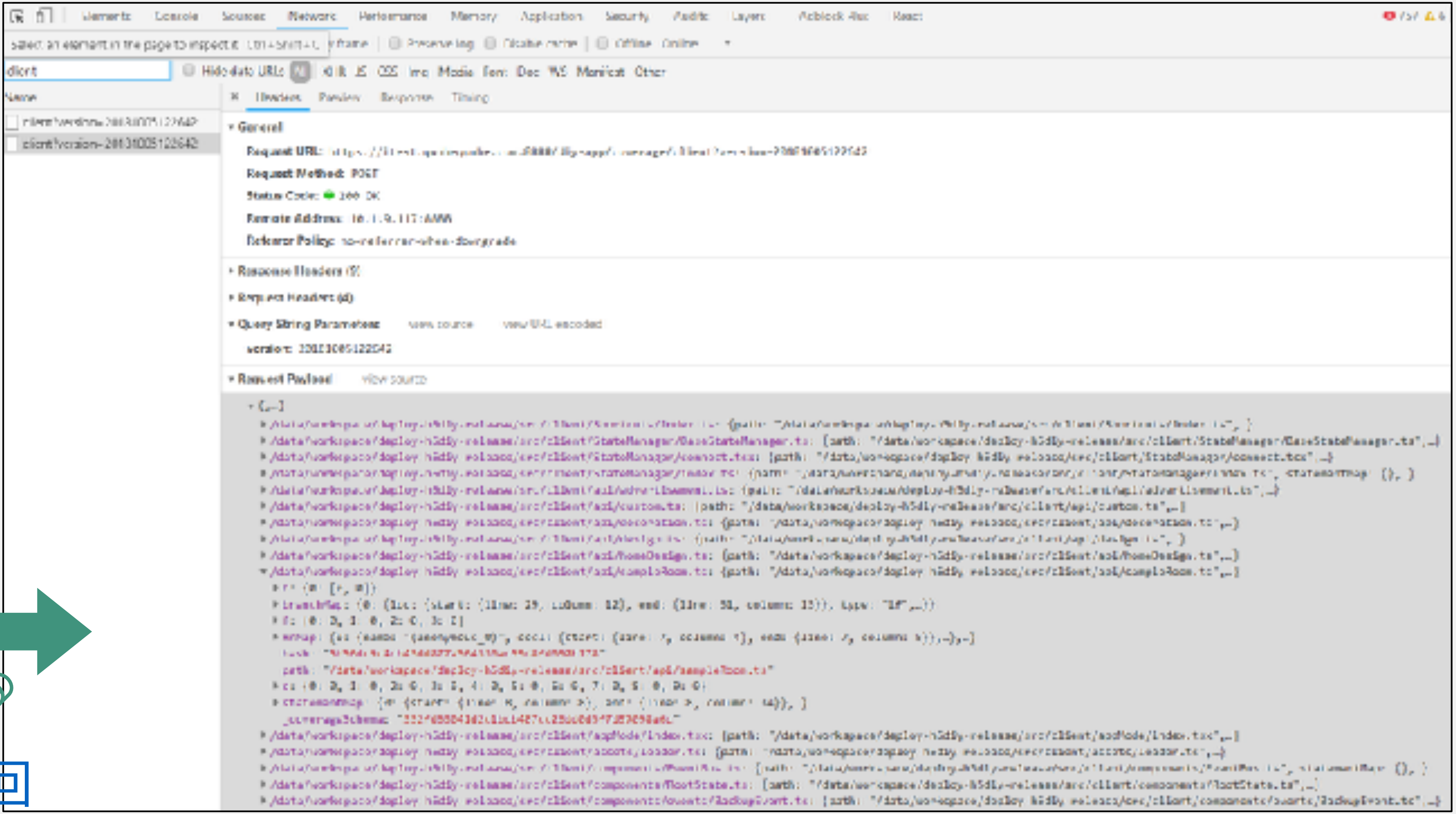
截图—前端覆盖率数据长什么样



```
> 15:56:39.410 window.__coverage__
< 15:56:39.422   {/data/workspace/deploy-h5diy-release/src/main.ts: {…}, /data/workspace/deploy-h5diy-release/src/client/index.tsx:
                 {…}, /data/workspace/deploy-h5diy-release/src/client/setup.ts: {…}, /data/workspace/deploy-h5diy-release/src/commo
                 n/three-extras/patches/patchObject3D.ts: {…}, /data/workspace/deploy-h5diy-release/src/common/Lang/tryEval.ts: {…}
                 , …}
                  ▶ /data/workspace/deploy-h5diy-release/src/client/Shortcuts/index.ts: {path: "/data/workspace/deploy-h5diy-release…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/StateManager/BaseStateManager.ts: {path: "/data/workspace/deploy…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/StateManager/connect.tsx: {path: "/data/workspace/deploy-h5diy-r…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/StateManager/index.ts: {path: "/data/workspace/deploy-h5diy-rele…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/api/advertisement.ts: {path: "/data/workspace/deploy-h5diy-relea…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/api/custom.ts: {path: "/data/workspace/deploy-h5diy-release/src/…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/api/decoration.ts: {path: "/data/workspace/deploy-h5diy-release/…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/api/design.ts: {path: "/data/workspace/deploy-h5diy-release/src/…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/api/homeDesign.ts: {path: "/data/workspace/deploy-h5diy-release/…
                  ▼ /data/workspace/deploy-h5diy-release/src/client/api/sampleRoom.ts:
                    ▶ b: {0: Array(2)}
                    ▶ branchMap: {0: {…}}
                    ▶ f: {0: 0, 1: 0, 2: 0, 3: 0}
                    ▶ fnMap: {0: {…}, 1: {…}, 2: {…}, 3: {…}}
                      hash: "5b56dc9c4cb43dd877a564330ac59d8fd092b178"
                      path: "/data/workspace/deploy-h5diy-release/src/client/api/sampleRoom.ts"
                    ▶ s: {0: 0, 1: 0, 2: 0, 3: 0, 4: 0, 5: 0, 6: 0, 7: 0, 8: 0, 9: 0}
                    ▶ statementMap: {0: {…}, 1: {…}, 2: {…}, 3: {…}, 4: {…}, 5: {…}, 6: {…}, 7: {…}, 8: {…}, 9: {…}}
                      _coverageSchema: "332fd63041d2c1bcb487cc26dd0d5f7d97098a6c"
                    ▶ __proto__: Object
                  ▶ /data/workspace/deploy-h5diy-release/src/client/appMode/index.tsx: {path: "/data/workspace/deploy-h5diy-release/…
                  ▶ /data/workspace/deploy-h5diy-release/src/client/assets/loader.ts: {path: "/data/workspace/deploy-h5diy-release/s…
```

返回

截图—覆盖率是如何收集的

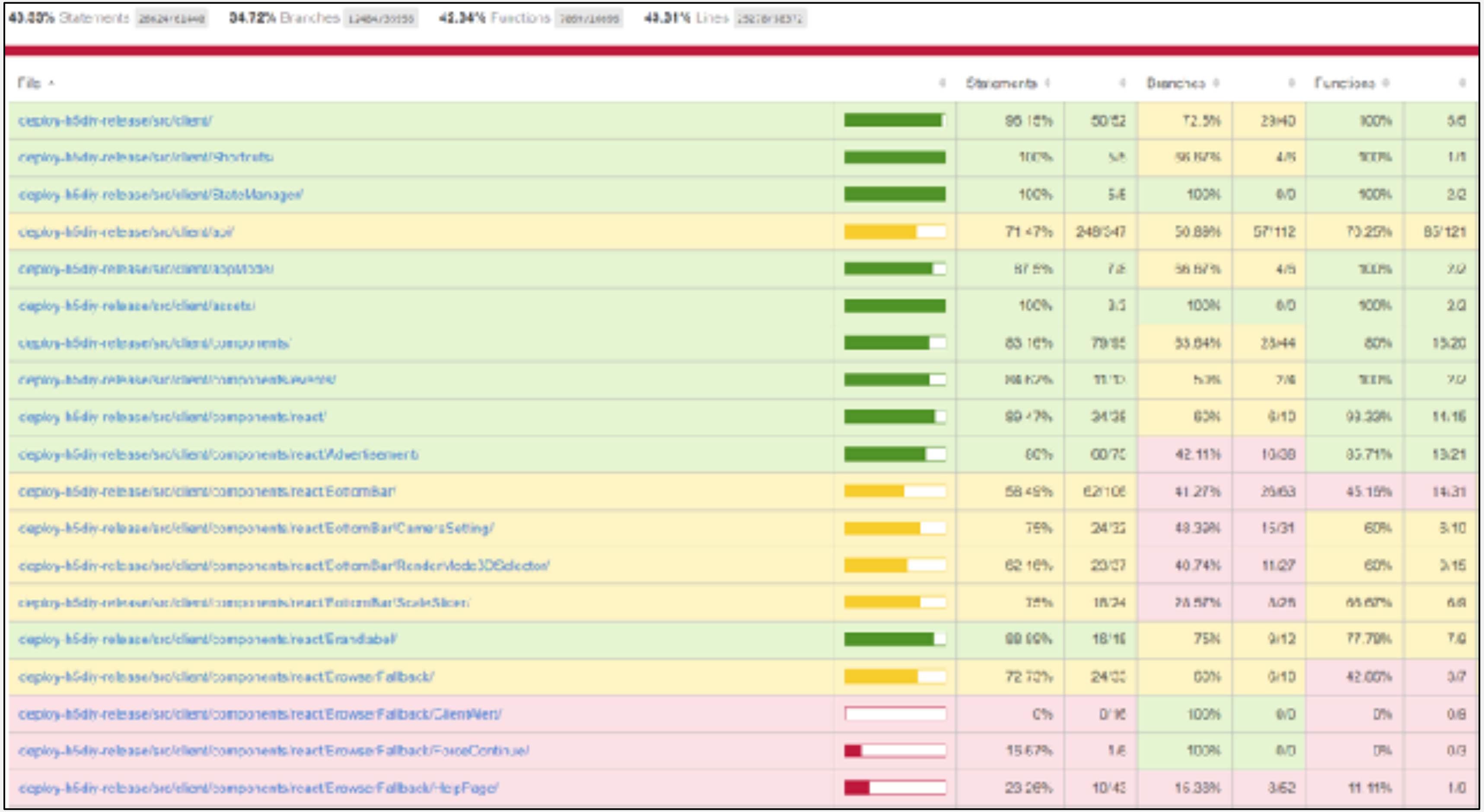


Elements　Console　Sources　Network　Performance　Memory　Application　Security　Audits　Layers　Adblock Plus　React
Select an element in the page to inspect it Ctrl+Shift+C
frame　□ Preserve log　□ Disable cache　□ Offline　Online
client
□ Hide data URLs　All　XHR　JS　CSS　Img　Media　Font　Doc　WS　Manifest　Other
Name
client?version=20181005122642
client?version=20181005122642
×　Headers　Preview　Response　Timing

```
▾ General
    Request URL: https://[illegible]/coverage/client?version=20181005122642
    Request Method: POST
    Status Code: ● 200 OK
    Remote Address: 10.1.9.117:8888
    Referrer Policy: no-referrer-when-downgrade
▸ Response Headers (9)
▸ Request Headers (4)
▾ Query String Parameters      view source      view URL encoded
    version: 20181005122642
▾ Request Payload      view source
  ▾ {…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/[illegible].ts: {path: "/data/workspace/deploy-h5dly-release/src/client/[illegible].ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/BaseStateManager.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/BaseStateManager.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/connect.tsx: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/connect.tsx",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/[illegible].ts: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/[illegible].ts", statementMap: {}, }
    ▸ /data/workspace/deploy-h5dly-release/src/client/api/advertisement.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/advertisement.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/api/custom.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/custom.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/api/decoration.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/decoration.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/api/design.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/design.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/api/homeDesign.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/homeDesign.ts",…}
    ▾ /data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts",…}
      ▸ b: {0: [1, 0]}
      ▸ branchMap: {0: {loc: {start: {line: 29, column: 12}, end: {line: 31, column: 13}}, type: "if",…}}
      ▸ f: {0: 2, 1: 0, 2: 0, 3: 1}
      ▸ fnMap: {0: {name: "(anonymous_0)", decl: {start: {line: 7, column: 4}, end: {line: 7, column: 8}},…},…}
        hash: "[illegible]"
        path: "/data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts"
      ▸ s: {0: 2, 1: 0, 2: 0, 3: 1, 4: 2, 5: 0, 6: 0, 7: 2, 8: 0, 9: 0}
      ▸ statementMap: {0: {start: {line: 8, column: 8}, end: {line: 8, column: 14}}, }
        _coverageSchema: "332fd63043d2c1bc1427cc25bc0d34f7357058a6c"
    ▸ /data/workspace/deploy-h5dly-release/src/client/appMode/index.tsx: {path: "/data/workspace/deploy-h5dly-release/src/client/appMode/index.tsx",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/boots/loader.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/boots/loader.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/components/[illegible].tsx: {path: "/data/workspace/deploy-h5dly-release/src/client/components/[illegible].tsx", statementMap: {}, }
    ▸ /data/workspace/deploy-h5dly-release/src/client/components/RootState.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/components/RootState.ts",…}
    ▸ /data/workspace/deploy-h5dly-release/src/client/components/events/[illegible].ts: {path: "/data/workspace/deploy-h5dly-release/src/client/components/events/[illegible].ts",…}
```

返回

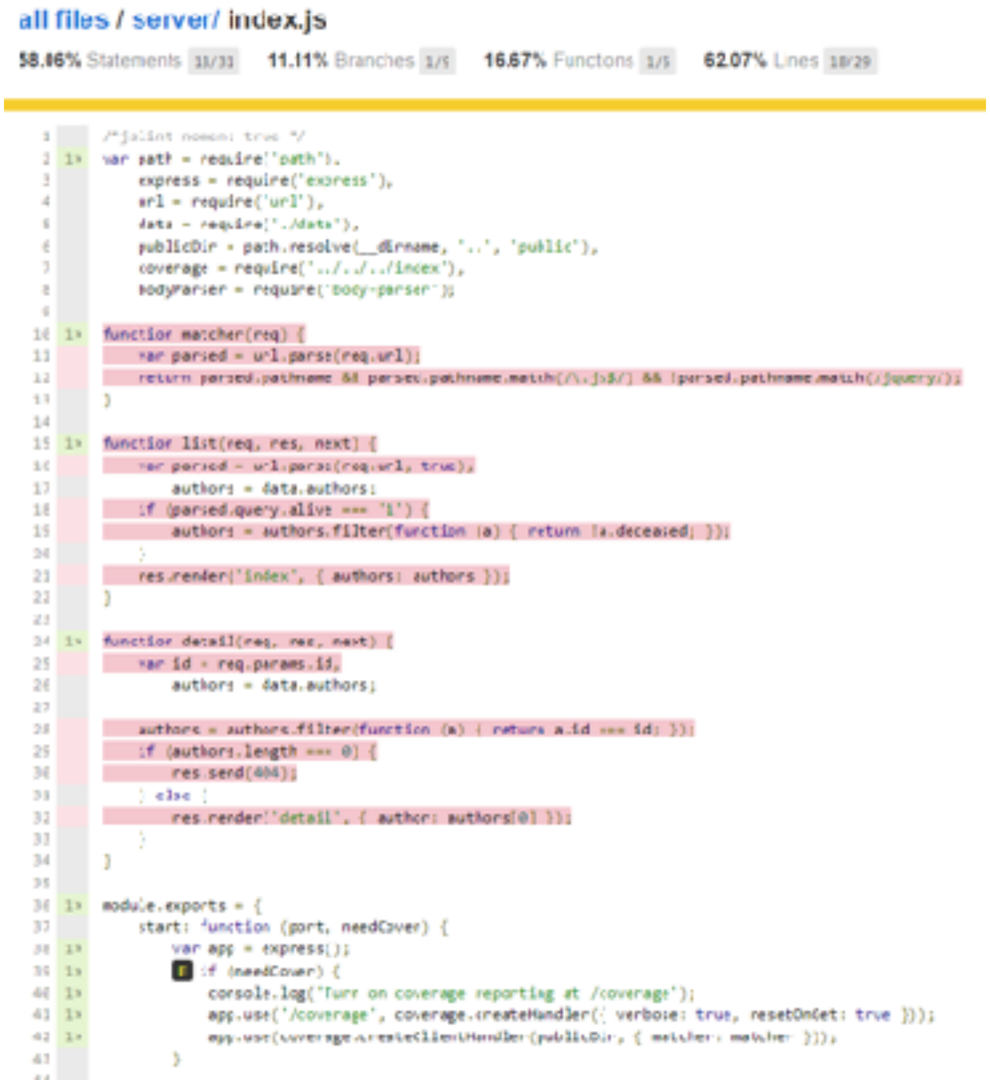
截图—覆盖率报告长什么样-文件列表



43.03% Statements [illegible]   **34.72%** Branches 12484/35955   **42.34%** Functions [illegible]   **43.31%** Lines [illegible]

File ▲		Statements		Branches		Functions	
deploy-h5diy-release/src/client/		96.15%	50/52	72.5%	29/40	100%	5/5
deploy-h5diy-release/src/client/Shortcuts/		100%	5/5	66.67%	4/6	100%	1/1
deploy-h5diy-release/src/client/StateManager/		100%	5/5	100%	0/0	100%	2/2
deploy-h5diy-release/src/client/api/		71.47%	248/347	50.89%	57/112	70.25%	85/121
deploy-h5diy-release/src/client/appModel/		87.5%	7/8	66.67%	4/6	100%	2/2
deploy-h5diy-release/src/client/assets/		100%	3/3	100%	0/0	100%	2/2
deploy-h5diy-release/src/client/components/		83.16%	79/95	53.64%	23/44	80%	16/20
deploy-h5diy-release/src/client/components/[illegible]/		91.67%	11/12	[illegible]	7/8	100%	2/2
deploy-h5diy-release/src/client/components/react/		89.47%	34/38	60%	6/10	93.33%	14/15
deploy-h5diy-release/src/client/components/react/Advertisements/		80%	60/75	42.11%	16/38	61.9%	13/21
deploy-h5diy-release/src/client/components/react/BottomBar/		58.49%	62/106	41.27%	26/63	45.16%	14/31
deploy-h5diy-release/src/client/components/react/BottomBar/CameraSetting/		75%	24/32	48.39%	15/31	60%	6/10
deploy-h5diy-release/src/client/components/react/BottomBar/RenderMode3DSelector/		62.16%	23/37	40.74%	11/27	60%	9/15
deploy-h5diy-release/src/client/components/react/BottomBar/ScaleSlider/		75%	18/24	28.57%	8/28	66.67%	6/9
deploy-h5diy-release/src/client/components/react/BrandLabel/		88.89%	16/18	75%	9/12	77.78%	7/9
deploy-h5diy-release/src/client/components/react/BrowserFallback/		72.73%	24/33	60%	6/10	42.86%	3/7
deploy-h5diy-release/src/client/components/react/BrowserFallback/ClientAlert/		0%	0/16	100%	0/0	0%	0/6
deploy-h5diy-release/src/client/components/react/BrowserFallback/ForceContinue/		16.67%	1/6	100%	0/0	0%	0/3
deploy-h5diy-release/src/client/components/react/BrowserFallback/HelpPage/		23.26%	10/43	15.38%	8/52	11.11%	1/9

截图—覆盖率报告长什么样-代码



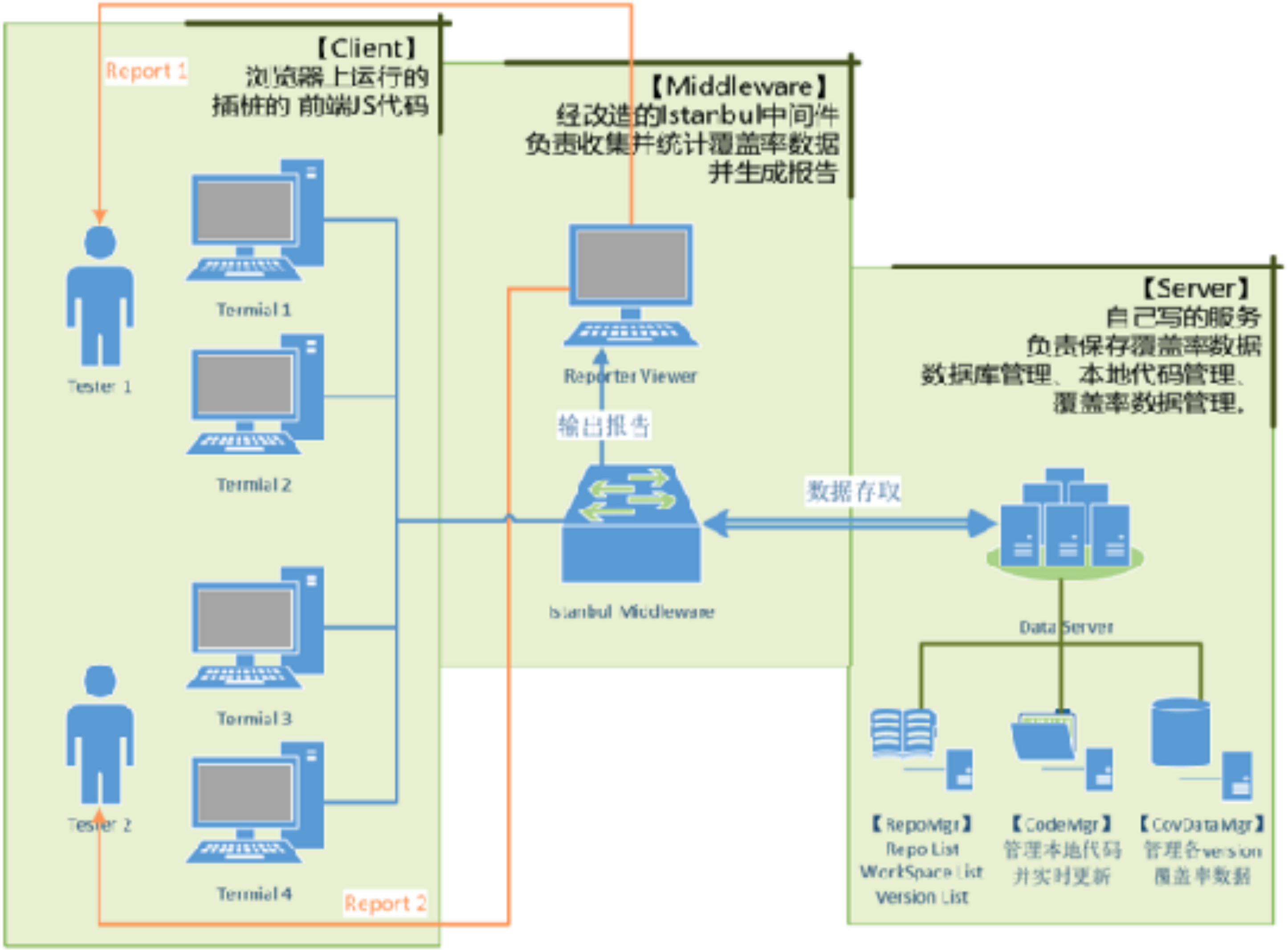
all files / server/ index.js

58.06% Statements 18/31 11.11% Branches 1/9 16.67% Functions 1/6 62.07% Lines 18/29

```
/*jslint nomen: true */
var path = require('path'),
    express = require('express'),
    url = require('url'),
    data = require('./data'),
    publicDir = path.resolve(__dirname, '..', 'public'),
    coverage = require('../../../index'),
    bodyParser = require('body-parser');

function matcher(req) {
    var parsed = url.parse(req.url);
    return parsed.pathname && parsed.pathname.match(/\.js$/) && !parsed.pathname.match(/jquery/);
}

function list(req, res, next) {
    var parsed = url.parse(req.url, true),
        authors = data.authors;
    if (parsed.query.alive === '1') {
        authors = authors.filter(function (a) { return !a.deceased; });
    }
    res.render('index', { authors: authors });
}

function detail(req, res, next) {
    var id = req.params.id,
        authors = data.authors;

    authors = authors.filter(function (a) { return a.id === id; });
    if (authors.length === 0) {
        res.send(404);
    } else {
        res.render('detail', { author: authors[0] });
    }
}

module.exports = {
    start: function (port, needCover) {
        var app = express();
        if (needCover) {
            console.log('Turn on coverage reporting at /coverage');
            app.use('/coverage', coverage.createHandler({ verbose: true, resetOnGet: true }));
            app.use(coverage.createClientHandler(publicDir, { matcher: matcher }));
        }
```

返回

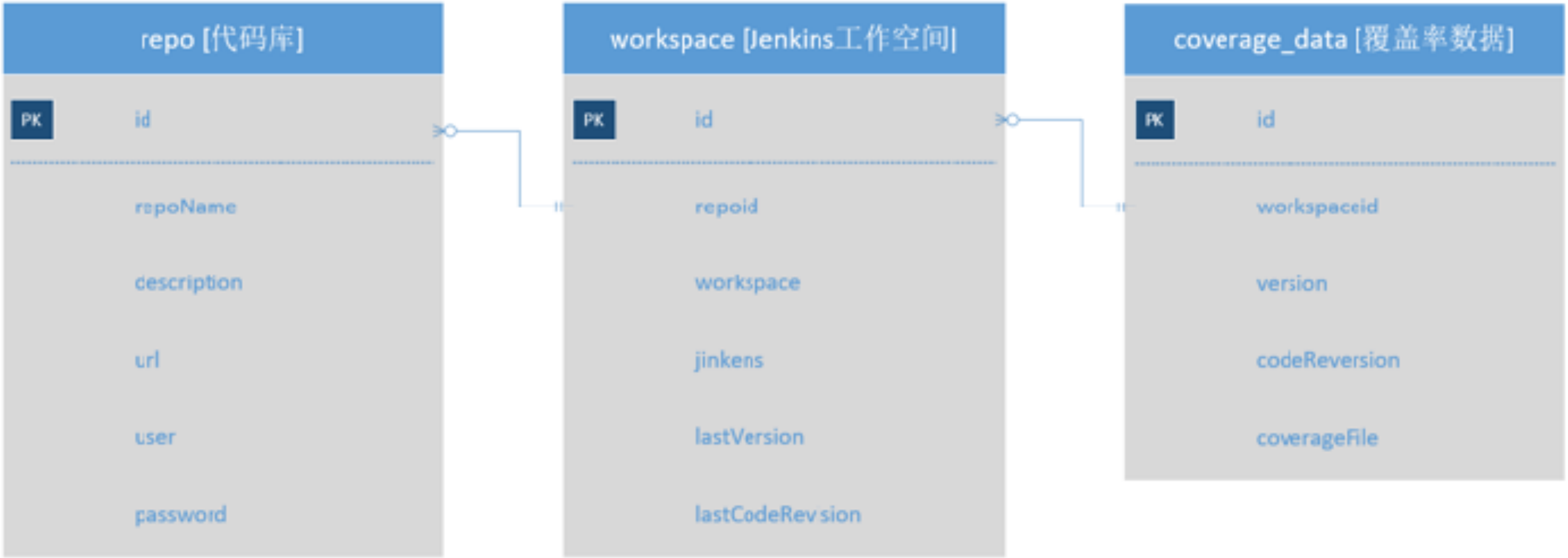
截图—设计架构


【Client】
浏览器上运行的
插桩的 前端JS代码
Report 1
Tester 1
Termial 1
Termial 2
Termial 3
Termial 4
Tester 2
Report 2
【Middleware】
经改造的Istarbul中间件
负责收集并统计覆盖率数据
并生成报告
Reporter Viewer
输出报告
Istanbul Middleware
数据存取
【Server】
自己写的服务
负责保存覆盖率数据
数据库管理、本地代码管理、
覆盖率数据管理。
Data Server
【RepoMgr】
Repo List
WorkSpace List
Version List
【CodeMgr】
管理本地代码
并实时更新
【CovDataMgr】
管理各version
覆盖率数据

返回

截图—设计数据库

返回



repo [代码库]

PK	id
	repoName
	description
	url
	user
	password

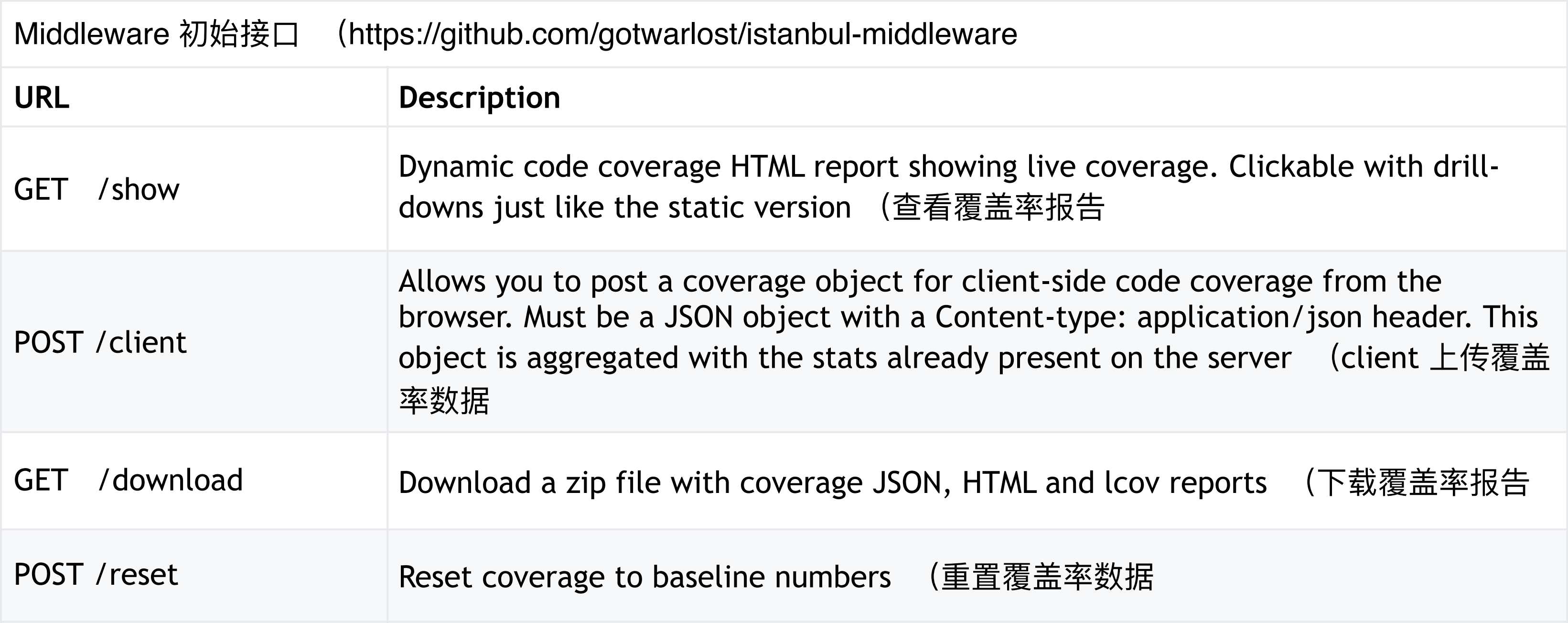
workspace [Jenkins工作空间]

PK	id
	repoid
	workspace
	jinkens
	lastVersion
	lastCodeRevision

coverage_data [覆盖率数据]

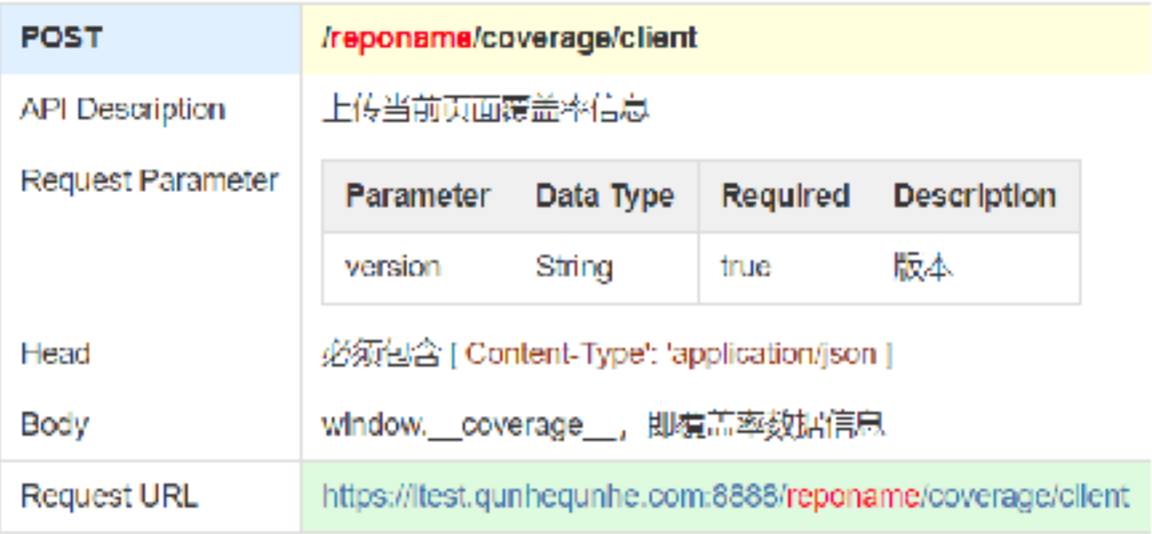
PK	id
	workspaceid
	version
	codeReversion
	coverageFile

截图—设计接口



Middleware 初始接口 （https://github.com/gotwarlost/istanbul-middleware	
URL	**Description**
GET /show	Dynamic code coverage HTML report showing live coverage. Clickable with drill-downs just like the static version （查看覆盖率报告
POST /client	Allows you to post a coverage object for client-side code coverage from the browser. Must be a JSON object with a Content-type: application/json header. This object is aggregated with the stats already present on the server （client 上传覆盖率数据
GET /download	Download a zip file with coverage JSON, HTML and lcov reports （下载覆盖率报告
POST /reset	Reset coverage to baseline numbers （重置覆盖率数据

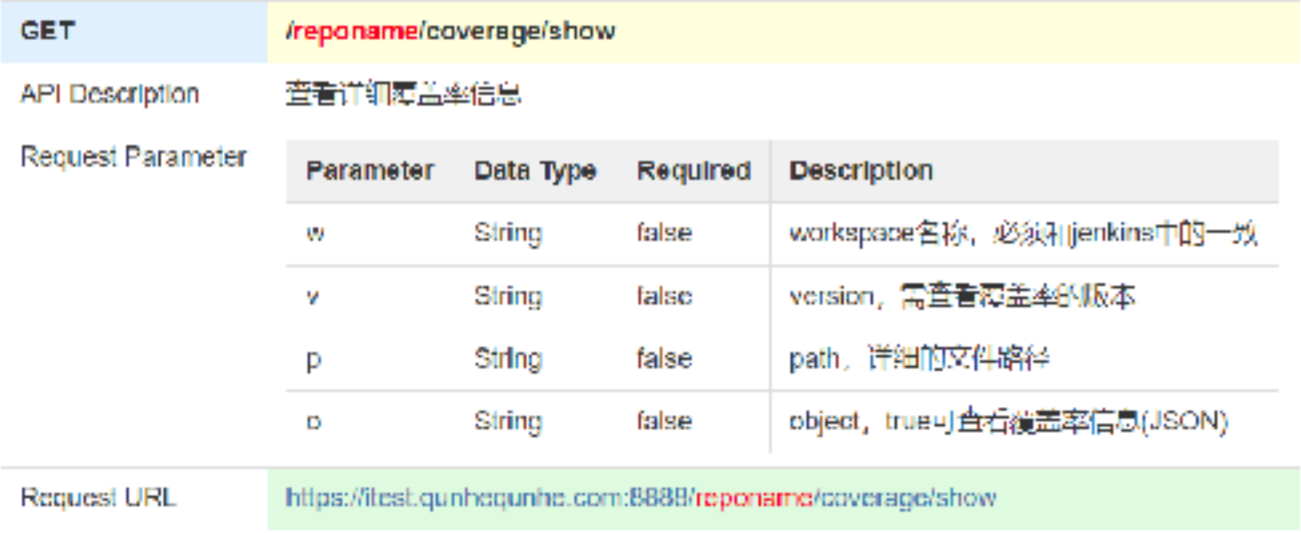
截图—设计接口



POST	/reponame/coverage/client
API Description	上传当前页面覆盖率信息
Request Parameter	

Parameter	Data Type	Required	Description
version	String	true	版本

Head	必须包含 [Content-Type': 'application/json]
Body	window.__coverage__，即覆盖率数据信息
Request URL	https://itest.qunhequnhe.com:8888/reponame/coverage/client



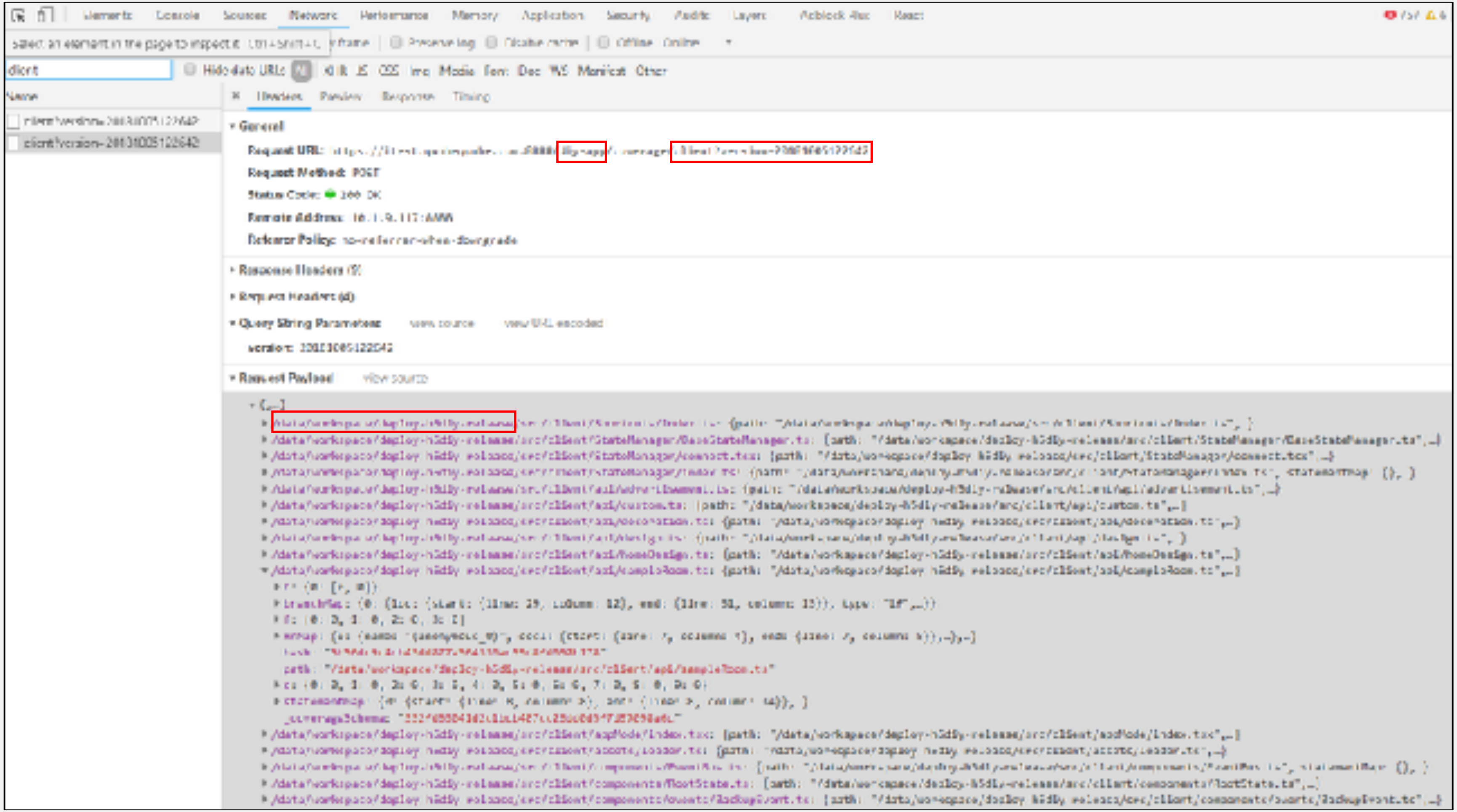
GET	/reponame/coverage/show
API Description	查看详细覆盖率信息
Request Parameter	

Parameter	Data Type	Required	Description
w	String	false	workspace名称，必须和jenkins中的一致
v	String	false	version，需查看覆盖率的版本
p	String	false	path，详细的文件路径
o	String	false	object，true可查看覆盖率信息(JSON)

Request URL	https://itest.qunhequnhe.com:8888/reponame/coverage/show

返回

截图—上传覆盖率数据 调接口区分工程和版本



Select an element in the page to inspect it Ctrl+Shift+C

client

client?version=20181005122642

client?version=20181005122642

▾ General

Request URL: https://[illegible]:8888/[illegible]/coverage/client?version=20181005122642

Request Method: POST

Status Code: 200 OK

Remote Address: [illegible]

Referrer Policy: no-referrer-when-downgrade

▸ Response Headers

▸ Request Headers

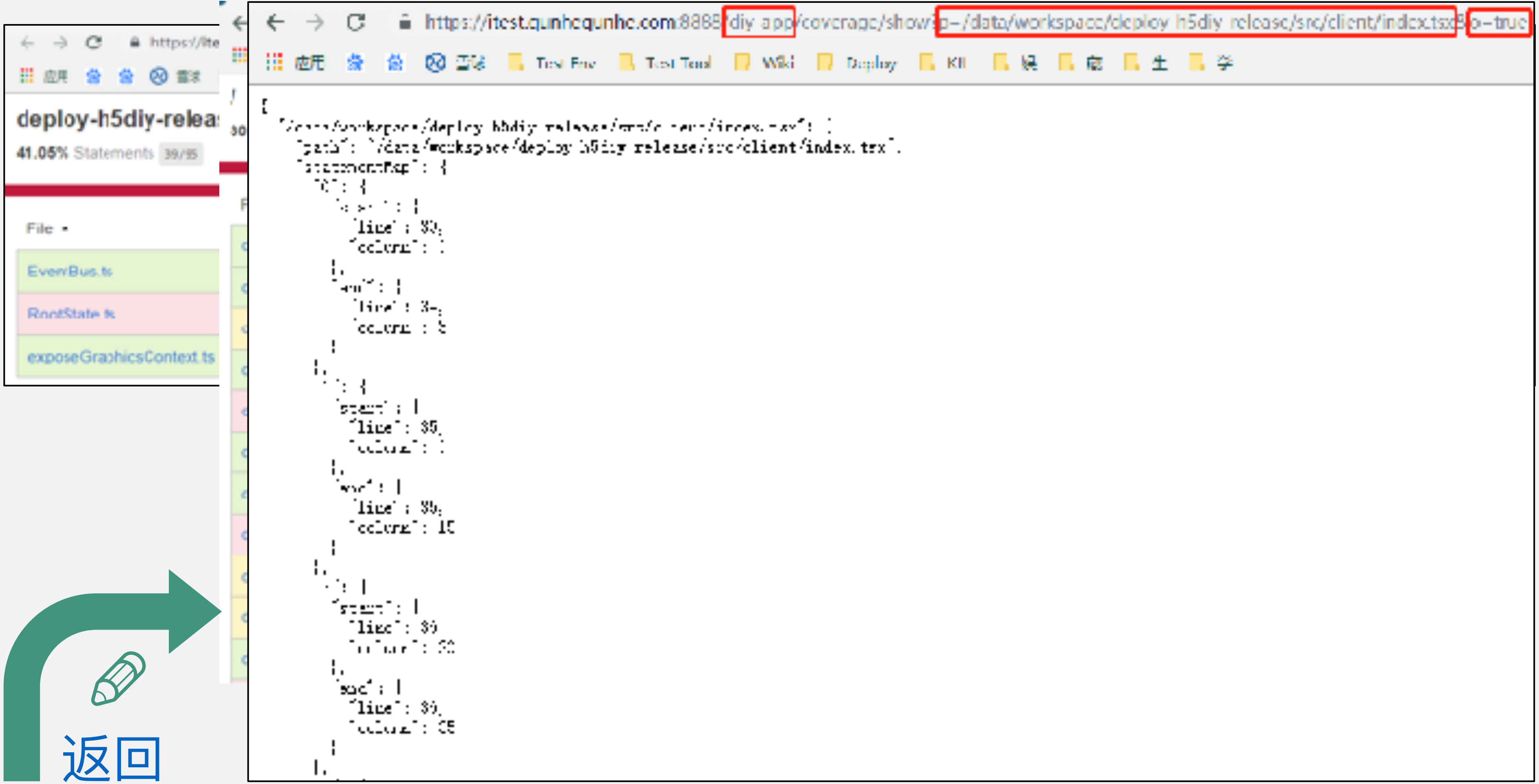
▾ Query String Parameters   view source   view URL encoded

version: 20181005122642

▾ Request Payload   view source

```
▾ {…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/[illegible]: {path: "/data/workspace/deploy-h5dly-release/src/client/[illegible]", …}
  ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/BaseStateManager.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/BaseStateManager.ts",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/connect.tsx: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/connect.tsx",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/StateManager/[illegible]: {path: "/data/workspace/deploy-h5dly-release/src/client/StateManager/[illegible]", statementMap: {}, }
  ▸ /data/workspace/deploy-h5dly-release/src/client/api/advertisement.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/advertisement.ts",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/api/custom.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/custom.ts",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/api/decoration.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/decoration.ts",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/api/design.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/design.ts", }
  ▸ /data/workspace/deploy-h5dly-release/src/client/api/homeDesign.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/homeDesign.ts",…}
  ▾ /data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts",…}
    ▸ b: {0: [1, 0]}
    ▸ branchMap: {0: {loc: {start: {line: 29, column: 12}, end: {line: 31, column: 13}}, type: "if",…}}
    ▸ f: {0: 3, 1: 0, 2: 0, 3: 1}
    ▸ fnMap: {0: {name: "(anonymous_0)", decl: {start: {line: 7, column: 1}, end: {line: 7, column: 1}},…},…}
      hash: "[illegible]"
      path: "/data/workspace/deploy-h5dly-release/src/client/api/sampleRoom.ts"
    ▸ s: {0: 3, 1: 0, 2: 0, 3: 1, 4: 3, 5: 0, 6: 0, 7: 3, 8: 0, 9: 0}
    ▸ statementMap: {0: {start: {line: 8, column: 2}, end: {line: 2, column: 14}}, }
      _coverageSchema: "[illegible]"
  ▸ /data/workspace/deploy-h5dly-release/src/client/appMode/index.tsx: {path: "/data/workspace/deploy-h5dly-release/src/client/appMode/index.tsx",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/[illegible]: {path: "/data/workspace/deploy-h5dly-release/src/client/[illegible]",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/components/[illegible]: {path: "/data/workspace/deploy-h5dly-release/src/client/components/[illegible]", statementMap: {}, }
  ▸ /data/workspace/deploy-h5dly-release/src/client/components/RootState.ts: {path: "/data/workspace/deploy-h5dly-release/src/client/components/RootState.ts",…}
  ▸ /data/workspace/deploy-h5dly-release/src/client/components/[illegible]: {path: "/data/workspace/deploy-h5dly-release/src/client/components/[illegible]",…}
```

截图—查看覆盖率报告 筛选目录、版本，或查看源数据



https://ite

deploy-h5diy-releas

41.05% Statements 39/95

File ▾

EventBus.ts

RootState.ts

exposeGraphicsContext.ts

https://itest.qunhequnhe.com:8888/diy-app/coverage/show?p=/data/workspace/deploy-h5diy-release/src/client/index.tsx&o=true

```
{
  "/data/workspace/deploy-h5diy-release/src/client/index.tsx": {
    "path": "/data/workspace/deploy-h5diy-release/src/client/index.tsx",
    "statementMap": {
      "0": {
        "start": {
          "line": 33,
          "column": 2
        },
        "end": {
          "line": 34,
          "column": 5
        }
      },
      "1": {
        "start": {
          "line": 35,
          "column": 2
        },
        "end": {
          "line": 35,
          "column": 15
        }
      },
      "2": {
        "start": {
          "line": 39,
          "column": 20
        },
        "end": {
          "line": 39,
          "column": 25
        }
      },
```

返回