|  |
| --- |
| [公司名称] |
| 质 量 评 估 报 告 |
| 子报告标题 |

|  |
| --- |
| [作者姓名]  日期 |

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# **概要信息**

## **应用信息**

### **日期**

Monday, xx July 2012

### **应用名称**

My Application Name

### **应用规模评估**

Small/Medium/Large/ExtraLarge

### **应用质量评估**

VeryLow/Low/Medium/Good/VeryGood

### **规则列表(按技术条件)**

|  |  |  |
| --- | --- | --- |
| Rule | Desc. | # Violations |
| Rule1 | Desc1 | 1 |
| Rule2 | Desc2 | 2 |
| Rule3 | Desc3 | 3 |

## **规则检查**

### **规则-总检查数**

0.00

### **规则-检查失败数**

0.00

### **规则-检查失败数与检查总数**

0.00

# **评分信息**

## **评分及变化**

### **合规性评分及其变化**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Prog. | Arch. | Doc. |
| Curr. Vers | **0.00** | **0.00** | **0.00** |
| Prev. Vers | 0.00 | 0.00 | 0.00 |
| Variation | 0.00 % | 0.00 % | 0.00% |

### **TQI整体质量指标评分及演化**

|  |  |  |
| --- | --- | --- |
| Statisticss | Current | Previous |
| - | **-** | **-** |

### **TQI 整体质量指标-按模块**

|  |  |  |  |
| --- | --- | --- | --- |
| Module | Current QI | Previous QI | Variation |
| Module | - | - | - |
| Module | - | - | - |
| Module | - | - | - |
| Module | - | - | - |

### **按照业务条件分类的技术条件及其评分表**

|  |  |  |
| --- | --- | --- |
| Technical Criteria Name | Grade | Evolution |
| Architecture - Multi-Layers and Data Access | 2.2 | 1.23 % |
| Architecture - Object-level Dependencies | 1.4 | 0.00 % |
| Architecture - OS and Platform Independence | 3.23 | 0.00 % |
| Architecture - Reuse | 3.45 | 0.00 % |
| Complexity - Algorithmic and Control Structure Complexity | 2.2 | 0.00 % |
| Complexity - Dynamic Instantiation | 1.4 | 0.00 % |
| Complexity - OO Inheritance and Polymorphism | 3.23 | 0.00 % |
| Complexity - SQL Queries | 3.45 | 0.00 % |
| Dead code (static) | 2.3 | 0.00 % |
| Programming Practices - Error and Exception Handling | 3.5 | 0.00 % |
| Programming Practices - OO Inheritance and Polymorphism | 1 | 0.00 % |
| Programming Practices - Structuredness | 2.2 | 0.00 % |
| Programming Practices - Unexpected Behaviour | 1.4 | 0.00 % |
| Secure Coding - Time and State | 3.23 | 0.00 % |
| Volume - Number of Components | 1 | 0.00 % |

# **排名分布信息**

## **排名及其分布**

### **技术排行-按规模**

|  |  |  |
| --- | --- | --- |
| Name |  | LOC |
| Techno 1 |  | 000,000 |
| Techno 2 |  | 000,000 |
| Techno 3 |  | 000,000 |
| Techno 4 |  | 000,000 |
| Techno 5 |  | 000,000 |

### **技术排行-按分数**

|  |  |
| --- | --- |
| Name | Value |
| Techno 1 | 000,000 |
| Techno 2 | 000,000 |
| Techno 3 | 000,000 |
| Techno 4 | 000,000 |
| Techno 5 | 000,000 |

### **技术排行-按规模的变化**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Previous LOC | Current LOC | Evolution | Evolution % |
| Techno 1 | 0,000 | 0,000 | 0,000 | 0.00 |
| Techno 2 | 0,000 | 0,000 | 0,000 | 0.00 |
| Techno 3 | 0,000 | 0,000 | 0,000 | 0.00 |
| Techno 4 | 0,000 | 0,000 | 0,000 | 0.00 |
| Techno 5 | 0,000 | 0,000 | 0,000 | 0.00 |

### **技术排行-按模块代码行**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Techno1 | Techno2 | Techno3 | Techno4 |
| Module 1 | 0,000 | 0,000 | 0,000 | 0.00 |
| Module 2 | 0,000 | 0,000 | 0,000 | 0.00 |
| Module 3 | 0,000 | 0,000 | 0,000 | 0.00 |
| Module 4 | 0,000 | 0,000 | 0,000 | 0.00 |
| Module 5 | 0,000 | 0,000 | 0,000 | 0.00 |

### **模块排行-按规模**

|  |  |  |
| --- | --- | --- |
| Name | | LOC |
| Module 1 | 000,000 | |
| Module 2 | 000,000 | |
| Module 3 | 000,000 | |
| Module 4 | 000,000 | |
| Module 5 | 000,000 | |

### **技术规模信息**

|  |  |
| --- | --- |
| Name | Number |
| kLOCs | 000 |
| Files | 0,000 |
| Classes | 0,000 |
| SQL Art. | 00 |
| Tables | 00 |

### **技术规模变化信息**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Prev. Number | Cur. Number | Evolution | Evolution % |
|  |  |  |  |  |
| kLOCs | 000 | 000 | 000 | 0.00% |
| Files | 0,000 | 0,000 | 0,000 | 0.00% |
| Classes | 0,000 | 0,000 | 0,000 | 0.00% |
| SQL Art. | 00 | 00 | 00 | 0.00% |
| Tables | 00 | 00 | 00 | 0.00% |

### **健康因素分数和演化（同上一个快照相比）**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | TQI | Robu | Efcy | Secu | Trans | Chang |
| Curr. Vers | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |
| Prev. Vers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Variation | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % |

### **模块的健康因素评分和演化（当前快照和上一次快照）**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | TQI | Robu | Efcy | Secu | Trans | Chang |
| Curr. Vers |  |  |  |  |  |  |
| Module 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |
| Prev. Vers |  |  |  |  |  |  |
| Module 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Module 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |
| Variation |  |  |  |  |  |  |
| Module 1 | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % |
| Module 2 | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % |
| Module 3 | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % |
| Module 4 | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % | 0.00 % |

### **技术条件排名（按可优化的优先程度）**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Technical Criterion | Total Violation (#) | | Total Check (#) | Grade |
| Criteria1 | | 1 | 1 | 2.2 |
| Criteria2 | | 2 | 2 | 1.4 |
| Criteria3 | | 3 | 3 | 3.23 |
| Criteria4 | | 4 | 4 | 3.45 |
| Criteria5 | | 5 | 5 | 2.2 |
| Criteria6 | | 6 | 6 | 1.4 |
| Criteria7 | | 7 | 7 | 3.23 |
| Criteria8 | | 8 | 8 | 3.45 |
| Criteria9 | | 9 | 9 | 2.3 |
| Criteria10 | | 10 | 10 | 3.5 |

### **最具风险的交易排行**

|  |  |
| --- | --- |
| Artefact name | TwRI |
| Artefact one | Twri value 1 |
| Artefact two | Twri value 2 |

### **最具风险的组件排行**

|  |  |
| --- | --- |
| Artefact name | PRI |
| Artefact one | PRI value 1 |
| Artefact two | PRI value 2 |

### **规则排名（按照可优化的优先程度）**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 🡪 Rule | Current violation | Previous violation | Evol. | Grade | Evol. |
| Rule1 | 1 | 1 | 1 | 2.2 | 1 |
| Rule2 | 2 | 2 | 2 | 1.4 | 2 |
| Rule3 | 3 | 3 | 3 | 3.23 | 3 |
| Rule4 | 4 | 4 | 4 | 3.45 | 4 |
| Rule5 | 5 | 5 | 5 | 2.2 | 5 |
| Rule6 | 6 | 6 | 6 | 1.4 | 6 |
| Rule7 | 7 | 7 | 7 | 3.23 | 7 |
| Rule8 | 8 | 8 | 8 | 3.45 | 8 |
| Rule9 | 9 | 9 | 9 | 2.3 | 9 |
| Rule10 | 10 | 10 | 10 | 3.5 | 10 |

### **按照业务条件分类的规则表**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Criticality | Weight | Grade | Technical Criteria | Rule Name | # Violation | # Ok |
|  | 9 | 4.00 | Tech Criteria | Avoid direct instanciation | 12 | 200 |
|  | 2 | 1.50 | Tech Criteria 2 | Avoid second rule 2 | 4 | 31242 |

### **按代码行统计的技术分布**

### **健康状况雷达图**

### **合规性状况雷达图**

### **健康状况趋势变化图**

### **合规状况趋势变化图**

### **总体状况趋势图**

### **总体状况雷达图**

# **复杂度评估**

## **复杂度分布**

### **CAST复杂度**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cast complexity | Current total | Previous total | Evol. | Evol. % | % on total elements |
| Low | A2 | A1 | A2-A1 | (A2-A1)/A1 | 100\*A2/(A2+B2+C2+D2) |
| Average | B2 | B1 | B2-B1 | (B2-B1)/B1 | 100\*B2/(A2+B2+C2+D2) |
| High | C2 | C1 | C2-C1 | (C2-C1)/C1 | 100\*C2/(A2+B2+C2+D2) |
| Very High | D2 | D1 | D2-D1 | (D2-D1)/D1 | 100\*D2/(A2+B2+C2+D2) |

### **CAST 分布**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distribution | Current total | Previous total | Evol. | Evol. % | % on total elements |
| Low | A2 | A1 | A2-A1 | (A2-A1)/A1 | 100\*A2/(A2+B2+C2+D2) |
| Average | B2 | B1 | B2-B1 | (B2-B1)/B1 | 100\*B2/(A2+B2+C2+D2) |
| High | C2 | C1 | C2-C1 | (C2-C1)/C1 | 100\*C2/(A2+B2+C2+D2) |
| Very High | D2 | D1 | D2-D1 | (D2-D1)/D1 | 100\*D2/(A2+B2+C2+D2) |

### **CAST 高分布与极高分布 图表**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cyclomatic Complexity Distribution | Current total | Previous total | Evol. | % on total elements |
| High and Very High Complexity | C2+D2 | C1+D1 | (C2+D2)-(C1+D1) | 100\*(C2+D2)/(A2+B2+C2+D2) |

### **CAST高复杂度与极高复杂度图表**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cast complexity | Current total | Previous total | Evol. | % on total elements |
| High and Very High Complexity | C2+D2 | C1+D1 | (C2+D2)-(C1+D1) | 100\*(C2+D2)/(A2+B2+C2+D2) |

### **复杂度及违规统计：组件统计 – CAST复杂度和违规**

|  |  |  |
| --- | --- | --- |
| Module | Artifacts | W/violations |
| Externe | - | - |
| High |  | - |
| Average | - | - |
| Low | - | - |

### **CAST复杂度**

CAST基于以下几项分布提供对象分布。

* 算法复杂度（基于圈复杂度
* 耦合 (扇入, 扇出)
* 文档比例
* 组件规模

### **CAST 分布**

CAST 基于选择的分布提供对象分布。

# **规模信息**

## **功能点度量**

### **未调整的数据功能点度量值**

0.00

### **未调整的交易功能点度量值**

0.00

### **汇总的EFP度量值**

0.00

### **功能点信息**

|  |  |
| --- | --- |
| Name | Number |
| Automated Function Points | 000 |
| Decision Points (Total CC) | 0,000 |
| Back Fire Function Points | 0,000 |

### 功能点变化信息

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Prev. Number | Cur. Number | Evolution | Evolution % |
| Automated Function Points | 000 | 000 | 000 | 0.00% |
| Decision Points (Total CC) | 0,000 | 0,000 | 0,000 | 0.00% |
| Back Fire Function Points | 0,000 | 0,000 | 0,000 | 0.00% |

### IFPUG 功能点

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Element Type | Object Name | # of FPs | FP Details | Object Type | Nom du module | Technology |
| Data Function | Object Name | 7 | DET: 1, RET: 1, ILF: 7 (Internal) | NodeJS Mongoose model | Module | HTML5 |

# **违规信息**

## **违规统计**

### **违规情况统计**

|  |  |
| --- | --- |
| Name | Number |
| Critical Violations | 0,000 |
| per File | 0.00 |
| per kLOCs | 0.00 |
| Complex Objects | 0,000 |
| with violations | 000 |

### **违规情况变化统计**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Current | Previous | Evolution |
| Critical Violations | 0.000 | 0,000 | 0.00 % |
| per File | 0.00 | 0.00 | 0.00 % |
| per kLOCs | 0.00 | 0.00 | 0.00 % |
| Complex Objects | 0.000 | 0,000 | 0.00 % |
| with violations | 0.00 | 0.00 | 0.00 % |

### **规则详情及违规数统计**

|  |  |
| --- | --- |
| Lorem ipsum dolor sit amet, consectetur adipiscing elit (Sed et accumsan felis etiam pharetra semper suscipit) | |
| Description | Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed et accumsan felis. Etiam pharetra semper suscipit. Mauris hendrerit placerat lorem sit amet commodo. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aliquam erat volutpat. |
| Remediation | Aliquam erat volutpat. Vestibulum quam ante, venenatis at bibendum vitae, viverra eget nulla. Donec pulvinar consequat varius. Morbi eget adipiscing lacus. Sed et libero odio, eget tempus massa. Phasellus venenatis commodo enim eget aliquet. Quisque posuere elit sed nunc aliquam eu ornare elit lacinia. Curabitur luctus, eros id venenatis lacinia, dolor libero tincidunt nibh, eget dapibus orci lectus pellentesque nisl. Ut quis velit est. |

### **关键性违规排行**

|  |  |
| --- | --- |
| Rules | Count |
| Rule 1 | 0 |
| Rule 2 | 0 |
| Rule 3 | 0 |
| Rule 4 | 0 |
| Rule 5 | 0 |

### **关键性违规排行的演化**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rules | Current | Previous | Evolution | Evolution % |
| Rule 1 | 0 | 0 | 0 | 0.00% |
| Rule 2 | 0 | 0 | 0 | 0.00% |
| Rule 3 | 0 | 0 | 0 | 0.00% |
| Rule 4 | 0 | 0 | 0 | 0.00% |
| Rule 5 | 0 | 0 | 0 | 0.00% |
| Rule 6 | 0 | 0 | 0 | 0.00% |
| Rule 7 | 0 | 0 | 0 | 0.00% |
| Rule 8 | 0 | 0 | 0 | 0.00% |
| Rule 9 | 0 | 0 | 0 | 0.00% |
| Rule 10 | 0 | 0 | 0 | 0.00% |

### **非关键性违规排行**

|  |  |
| --- | --- |
| Rules | Count |
| Rule 1 | 0 |
| Rule 2 | 0 |
| Rule 3 | 0 |
| Rule 4 | 0 |
| Rule 5 | 0 |
| Rule 6 | 0 |
| Rule 7 | 0 |
| Rule 8 | 0 |
| Rule 9 | 0 |
| Rule 10 | 0 |

### **非关键性违规排行的变化**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rules | Prev. Count | Cur. Count | Evolution | Evolution % |
| Rule 1 | 0 | 0 | 0 | 0.00% |
| Rule 2 | 0 | 0 | 0 | 0.00% |
| Rule 3 | 0 | 0 | 0 | 0.00% |
| Rule 4 | 0 | 0 | 0 | 0.00% |
| Rule 5 | 0 | 0 | 0 | 0.00% |
| Rule 6 | 0 | 0 | 0 | 0.00% |
| Rule 7 | 0 | 0 | 0 | 0.00% |
| Rule 8 | 0 | 0 | 0 | 0.00% |
| Rule 9 | 0 | 0 | 0 | 0.00% |
| Rule 10 | 0 | 0 | 0 | 0.00% |

### **组件及违规列表(按照业务规则)**

|  |  |
| --- | --- |
| Rules Descriptions for Top Critical Violations for Business Criterion | # of # |
| C:\SRC\MODULE\artefact1.cs |  |
| C:\SRC\MODULE\artefact2.cs |  |
| C:\SRC\MODULE\artefact3.cs |  |

## **违规详情**

### **增加的违规列表**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Violation Status | Rule Name | Business Criterion | Object Name | Object Status |
| Added | Rule 1 | Security | Object 1 | updated |
| Unchanged | Rule 2 | Security | Object 2 | unchanged |

### **修改的违规列表**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Violation Status | Rule Name | Business Criterion | Object Name | Object Status |
| Added | Rule 1 | Security | Object 1 | updated |
| Unchanged | Rule 2 | Security | Object 2 | unchanged |