



# Relatório do código RevCare

**Feito pelo grupo SoResenha / Entrega – 08/11**

## **Introdução**

Com uso de ferramentas de análise de código tivemos o resultado do sonar pelo código do revcare, as ferramentas utilizadas foram SonarQube, SonarLint e CheckStyles para uma busca mais profunda por problemas no código.



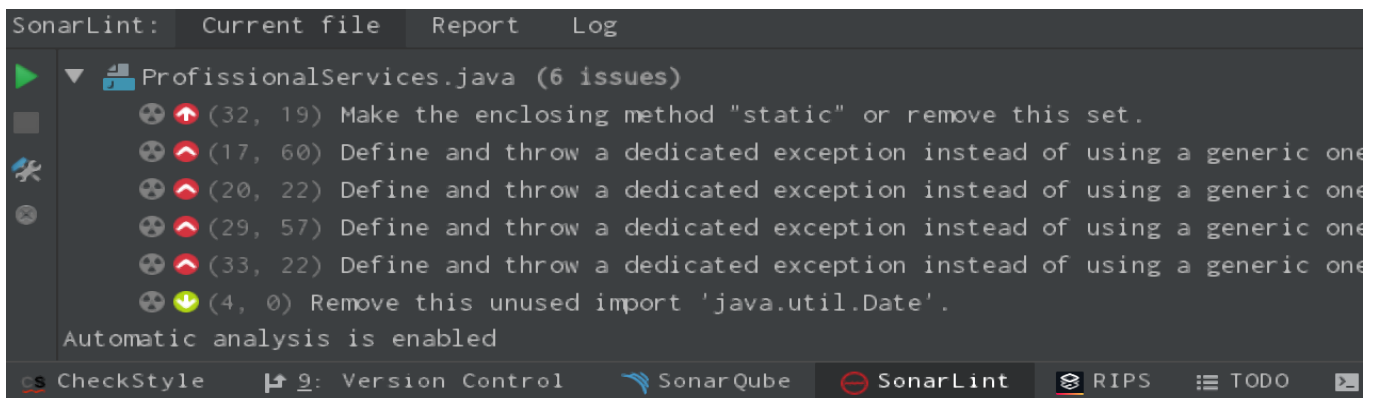
**RevCare**

# 1 - Resultados Gerais da Busca

## 1.1 - Busca pelo SonarQube

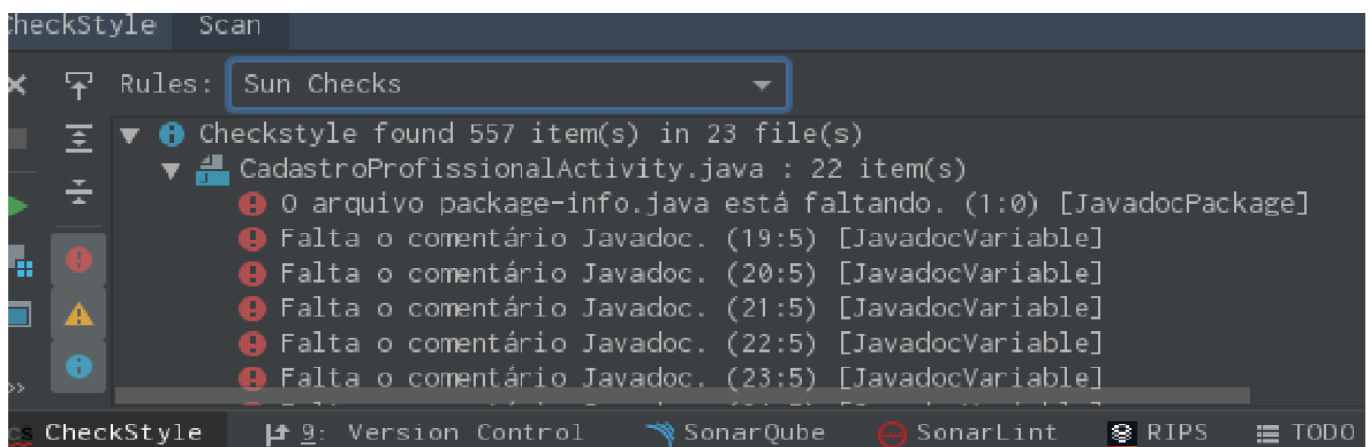


## 1.2 - Busca pelo SonarLint

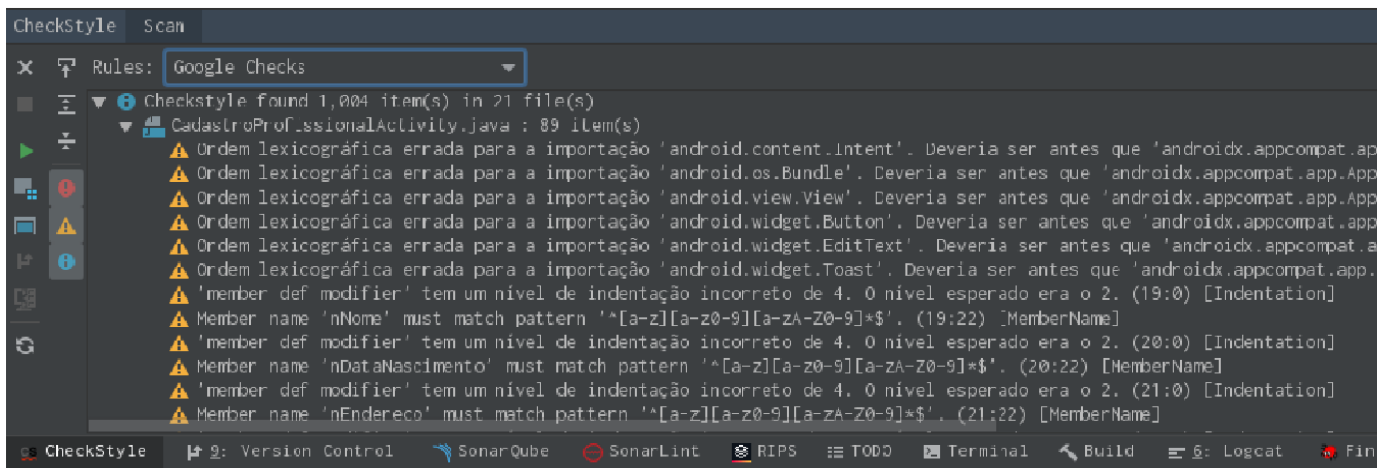


Obs : De forma geral apresentou uma média de 5 erros por Activity

## 1.3 – Busca pelo CheckStyles (Sun Checks)



### 1.3.1 – Busca pelo CheckStyles (Googles Checks)



## 2 – Vulnerabilidades encontradas

<input type="checkbox"/>	Make this "public static usuarioLogado" field final	23 hours ago	L8	cert, cwe
<input type="checkbox"/>	Make usuarioLogado a static final constant or non-public and provide accessors if needed.	23 hours ago	L8	cwe
<input type="checkbox"/>	Make this member "protected".	23 hours ago	L9	cert, cwe, unpredictable
<input type="checkbox"/>	Make this "public static horaLogin" field final	23 hours ago	L9	cert, cwe
<input type="checkbox"/>	Make horaLogin a static final constant or non-public and provide accessors if needed.	23 hours ago	L9	cwe

As Vulnerabilidades encontradas foram de menor risco mas apesar de apresentarem um menor risco devem ser tratadas imediatamente para não trazerem problemas futuros .

# 3 - Code Smells

## Code Smells

6d <sup>B</sup>

Debt

55

Code Smells

started 23 hours ago

O código precisa receber uma manutenção pois está com um debito tecnicamente

Maintainability rating is B when the technical debt ratio is greater than 5.0%

Durante a busca foram encontrados 13 Codes Smells do tipo critico podendo ser perigoso para o andamento do código

☐ Define a constant instead of duplicating this literal " %3\$s TEXT NOT NULL, " 3 times. yesterday ▾ L65 3 🔗 ⚙️ ▾  

Code Smell ▾ Critical ▾ Open ▾ Not assigned ▾ 8min effort Comment design ▾

☐ Define a constant instead of duplicating this literal " %4\$s TEXT NOT NULL, " 6 times. yesterday ▾ L66 6 🔗 ⚙️ ▾  

Code Smell ▾ Critical ▾ Open ▾ Not assigned ▾ 14min effort Comment design ▾

☐ Define a constant instead of duplicating this literal " %5\$s TEXT NOT NULL, " 3 times. yesterday ▾ L67 3 🔗 ⚙️ ▾  

Code Smell ▾ Critical ▾ Open ▾ Not assigned ▾ 8min effort Comment design ▾

Codes Smells do tipo “Major” foram encontrados 26 e a maioria desses erros foram problemas com quantidades de parâmetros .

src/\_/java/br/ufprpe/revcare/infra/Sessao.java

☐ Add a private constructor to hide the implicit public one. yesterday ▾ L7 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 30min effort Comment design ▾

src/\_/br/ufprpe/revcare/infra/gui/MainActivity.java

☐ This class has 9 parents which is greater than 5 authorized. yesterday ▾ L21 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 6h effort Comment design ▾

src/\_/br/ufprpe/revcare/infra/gui/Validacao.java

☐ Method has 8 parameters, which is greater than 7 authorized. yesterday ▾ L30 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 20min effort Comment brain-overload ▾

src/\_/revcare/profissional/dominio/Profissional.java

☐ 1 duplicated blocks of code must be removed. yesterday ▾ 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 20min effort Comment pitfall ▾

src/\_/ufprpe/revcare/profissional/gui/CadastroProfissionalActivity.java

☐ 1 duplicated blocks of code must be removed. yesterday ▾ 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 20min effort Comment pitfall ▾

☐ This class has 9 parents which is greater than 5 authorized. yesterday ▾ L18 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 6h effort Comment design ▾

src/\_/ufprpe/revcare/profissional/gui/HomeProfissional.java

☐ This class has 9 parents which is greater than 5 authorized. yesterday ▾ L9 3 🔗 ⚙️ ▾  

Code Smell ▾ Major ▾ Open ▾ Not assigned ▾ 6h effort Comment design ▾

Em relação aos codes smells de menores impactos nos códigos foram encontrados 23 do tipo menor , Alguns desses codes smells estão causando as vulnerabilidades do código.

Make this "public static usuarioLogado" field final

Vulnerability

Minor

Open

Not assigned

20min effort

Comment

yesterday L8 cert, cwe

Make usuarioLogado a static final constant or non-public and provide accessors if needed.

Vulnerability

Minor

Open

Not assigned

10min effort

Comment

yesterday L8 cwe

Make this member "protected".

Vulnerability

Minor

Open

Not assigned

15min effort

Comment

yesterday L9 cert, cwe, unpredictable

Make this "public static horaLogin" field final

Vulnerability

Minor

Open

Not assigned

20min effort

Comment

yesterday L9 cert, cwe

Make horaLogin a static final constant or non-public and provide accessors if needed.

Vulnerability

Minor

Open

Not assigned

10min effort

Comment

yesterday L9 cwe

rc/.../br/ufpe/revcare/infra/gui/Validacao.java

Replace this if-then-else statement by a single return statement.

Code Smell

Minor

Open

Not assigned

2min effort

Comment

yesterday L110 clumsy

rc/.../br/ufpe/revcare/infra/negocio/Negocio.java

Remove this empty class, write its code or make it an "interface".

Code Smell

Minor

Open

Not assigned

5min effort

Comment

yesterday L3 clumsy

rc/.../revcare/infra/persistencia/GenericDAO.java

Remove the declaration of thrown exception 'br.ufpe.revcare.infra.RevCareRunTimeException' which is a runtime exception.

Code Smell

Minor

Open

Not assigned

5min effort

Comment

yesterday L10 clumsy, redundant, unused

Remove this empty class, write its code or make it an "interface".

Code Smell

Minor

Open







Not assigned

5min effort

Comment

yesterday L26 clumsy

## 4 - Duplications

Duplications 		
<div><div></div><div>10.6%</div><div>Duplications</div></div> <div><div>4</div><div>Duplicated Blocks</div></div>		
	Duplicated Lines (%)	Duplicated Lines
 src/main/java/br/ufpe/revcare/usuario/dominio/Usuario.java	65.5%	57
 src/main/java/br/ufpe/revcare/profissional/dominio/Profissional.java	60.0%	57
 src/main/java/br/ufpe/revcare/usuario/gui/CadastroUsuarioActivity.java	16.1%	15
 src/main/java/br/ufpe/revcare/profissional/gui/CadastroProfissionalActivity.java	15.7%	17

## 5 – Complexidade Ciclomática


No total o código apresentou uma complexidade de 165

### 1 - Método com Elevado Risco

 src/main/java/br/ufrrpe/revcare/infra/gui/Validacao.java

27


### 2 – Métodos com Moderado Risco

 src/main/java/br/ufrrpe/revcare/profissional dominio/Profissional.java

20


 src/main/java/br/ufrrpe/revcare/usuario dominio/Usuario.java

18


 src/main/java/br/ufrrpe/revcare/servico dominio/Servico.java

16

### 3 – Métodos com Baixo Risco

 src/main/java/br/ufrrpe/revcare/infra/gui/MainActivity.java

10

 src/main/java/br/ufrrpe/revcare/profissional/gui/CadastroProfissionalActivity.java

9

 src/main/java/br/ufrrpe/revcare/usuario/gui/CadastroUsuarioActivity.java


9

 src/main/java/br/ufrrpe/revcare/infra/persistencia/DBHelper.java

8

 src/main/java/br/ufrrpe/revcare/profissional/persistencia/ProfissionalDAO.java


7

 src/main/java/br/ufrrpe/revcare/usuario/persistencia/UsuarioDAO.java


7

 src/main/java/br/ufrrpe/revcare/profissional/negocio/ProfissionalServices.java

6

 src/main/java/br/ufrrpe/revcare/usuario/negocio/UsuarioServices.java

6

 src/main/java/br/ufrrpe/revcare/usuario/gui/RecyclerViewAdapter.java

5

 src/main/java/br/ufrrpe/revcare/usuario/gui/RecyclerViewUsuario.java

4

 src/main/java/br/ufrrpe/revcare/servico/persistencia/ServicoDAO.java

3

 src/main/java/br/ufrrpe/revcare/infra/persistencia/GenericDAO.java

2

 src/main/java/br/ufrrpe/revcare/usuario/gui/HomeUsuario.java

2

 src/main/java/br/ufrrpe/revcare/infra/RevCareRunTimeException.java

2

 src/main/java/br/ufrrpe/revcare/infra/Sessao.java











2

 src/main/java/br/ufrrpe/revcare/servico/gui/CadastroServicoActivity.java

1

Obs : Os outros métodos não apresentam risco.

## 6 – Complexidade Cognitiva

 src/main/java/br/ufpr/revcare/infra/gui/Validacao.java	18
 src/main/java/br/ufpr/revcare/infra/gui/MainActivity.java	11
 src/main/java/br/ufpr/revcare/profissional/gui/CadastroProfissionalActivity.java	5
 src/main/java/br/ufpr/revcare/usuario/gui/CadastroUsuarioActivity.java	5
 src/main/java/br/ufpr/revcare/infra/persistencia/GenericDAO.java	3
 src/main/java/br/ufpr/revcare/profissional/persistencia/ProfissionalDAO.java	2
 src/main/java/br/ufpr/revcare/profissional/negocio/ProfissionalServices.java	2
 src/main/java/br/ufpr/revcare/usuario/persistencia/UsuarioDAO.java	2
 src/main/java/br/ufpr/revcare/usuario/negocio/UsuarioServices.java	2
 src/main/java/br/ufpr/revcare/infra/persistencia/DBHelper.java	1