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Análise Estática de Código: MediControl

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1. Visão Geral

Através da ferramenta Sonarqube foi feita uma análise estática do código do projeto para encontrar erros já presentes e ameaças de futuros erros que poderiam surgir com o andamento do projeto dificultando tanto o desenvolvimento do mesmo quanto a manutenção posterior.

2. Resultado da Análise Estática do Código

	Total	Tipo
Bugs	12	Minor: 6
		Major: 4
		Critical: 0
		Blocker: 0
Vulnerabilidades	19	Minor: 18
		Major: 0
		Critical: 0
		Blocker: 1
Codesmells	233	Minor: 135
		Major: 71
		Critical: 27
		Blocker: 0

2.1. Outros resultados

Além disso, foram encontrados 60 blocos de código duplicados.

2.2 Erros críticos encontrados

app/.../medicontrol/infra/persistencia/DBHelper.java	
Define a constant instead of duplicating this literal "CREATE TABLE " 4 times. See Rule	last month ▾ L63 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 design
Define a constant instead of duplicating this literal " INTEGER PRIMARY KEY AUTOINCREMENT, " 4 times. See Rule	last month ▾ L64 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 design
Define a constant instead of duplicating this literal " INTEGER NOT NULL, " 6 times. See Rule	3 days ago ▾ L65 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 14min effort	🔗 design
Define a constant instead of duplicating this literal "FOREIGN KEY(" 4 times. See Rule	last month ▾ L69 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 design
Define a constant instead of duplicating this literal "REFERENCES " 4 times. See Rule	last month ▾ L70 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 design
Define a constant instead of duplicating this literal " TEXT NOT NULL, " 4 times. See Rule	last month ▾ L93 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 design
Define a constant instead of duplicating this literal " INTEGER NOT NULL, " 3 times. See Rule	2 days ago ▾ L111 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 8min effort	🔗 design
app/.../android/medicontrol/alarme/ui/AlarmeAtualizacaoActivity.java	
Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed. See Rule	last month ▾ L170 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 brain-overload
app/.../android/medicontrol/alarme/ui/AlarmeAtualizacaoCuidadorActivity.java	
Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed. See Rule	9 days ago ▾ L166 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 brain-overload
app/.../android/medicontrol/alarme/ui/AlarmeCadastroActivity.java	
Make the enclosing method "static" or remove this set. See Rule	2 days ago ▾ L74 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 20min effort	🔗 multi-threading
Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed. See Rule	last month ▾ L160 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 10min effort	🔗 brain-overload
app/.../android/medicontrol/alarme/ui/AlarmeListaCuidador.java	
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed. See Rule	9 days ago ▾ L110 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 7min effort	🔗 brain-overload
app/.../android/medicontrol/alarme/ui/AlarmlistaActivity.java	
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed. See Rule	24 days ago ▾ L115 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 7min effort	🔗 brain-overload
app/.../android/medicontrol/infra/ml/CameraSourcePreview.java	
Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. See Rule	2 days ago ▾ L121 🔗 ⚙️ ▾
🔗 Code Smell 🔴 Critical 🔵 Open Not assigned 5min effort	🔗 suspicious

app/.../android/medicontrol/infra/ui/MainActivity.java

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. [See Rule](#)

2 months ago ▾ L84 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 suspicious

app/.../android/medicontrol/infra/ui/MediControlApp.java

Make the enclosing method "static" or remove this set. [See Rule](#)

2 months ago ▾ L12 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 20min effort

🕒 multi-threading

app/.../android/medicontrol/infra/ui/RecyclerViewItemClickListener.java

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. [See Rule](#)

23 days ago ▾ L49 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 suspicious

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. [See Rule](#)

23 days ago ▾ L52 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 suspicious

app/.../medicontrol/paciente/ui/AdicionarAmigoActivity.java

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. [See Rule](#)

last month ▾ L53 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 suspicious

Add a nested comment explaining why this method is empty, throw an UnsupportedOperationException or complete the implementation. [See Rule](#)

last month ▾ L58 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 suspicious

Define a constant instead of duplicating this literal "Adicionar Amigo" 3 times. [See Rule](#)

last month ▾ L99 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 8min effort

🕒 design

app/.../medicontrol/paciente/ui/ListarAmigosActivity.java

Define a constant instead of duplicating this literal "Amigos" 3 times. [See Rule](#)

9 days ago ▾ L87 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 8min effort

🕒 design

Add a default case to this switch. [See Rule](#)

23 days ago ▾ L181 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 5min effort

🕒 based-on-misra, cert, cwe

Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed. [See Rule](#)

last month ▾ L252 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 7min effort

🕒 brain-overload

Define a constant instead of duplicating this literal "AMIGO_ID" 3 times. [See Rule](#)

3 days ago ▾ L720 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 8min effort

🕒 design

app/.../android/medicontrol/usuario/ui/CadastroActivity.java

Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed. [See Rule](#)

2 months ago ▾ L205 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 10min effort

🕒 brain-overload

app/.../android/medicontrol/usuario/ui/LoginActivity.java

Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed. [See Rule](#)

2 months ago ▾ L102 🔗 ⚙️ ▾

🔧 Code Smell 🚨 Critical 🔵 Open Not assigned 10min effort

🕒 brain-overload