**Laura Daniela Chacón Hernández – 201910858**

**Esteban Nicolas Jiménez Sáenz - 201610710  
Pruebas Automáticas – MISO 4208**

# Reporte GNUCash

## Generación de mutantes

Usando MDROID+ se logró generar los siguientes mutantes en la aplicación GNUCash:

Total Locations: 638

Mutant: 1 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 2 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 3 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 4 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 5 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 6 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 7 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 8 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 9 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 10 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 11 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 12 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 13 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 14 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

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Mutant: 29 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 30 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE

Mutant: 31 - Type: NULL\_OUTPUT\_STREAM

Mutant: 32 - Type: BUGGY\_GUI\_LISTENER

Mutant: 33 - Type: BUGGY\_GUI\_LISTENER

Mutant: 34 - Type: BUGGY\_GUI\_LISTENER

Mutant: 35 - Type: BUGGY\_GUI\_LISTENER

Mutant: 36 - Type: BUGGY\_GUI\_LISTENER

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Mutant: 81 - Type: DIFFERENT\_ACTIVITY\_INTENT\_DEFINITION

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Mutant: 218 - Type: NULL\_INTENT

Mutant: 219 - Type: CLOSING\_NULL\_CURSOR

Mutant: 220 - Type: CLOSING\_NULL\_CURSOR

Mutant: 221 - Type: CLOSING\_NULL\_CURSOR

Mutant: 222 - Type: CLOSING\_NULL\_CURSOR

Mutant: 223 - Type: CLOSING\_NULL\_CURSOR

Mutant: 224 - Type: CLOSING\_NULL\_CURSOR

Mutant: 225 - Type: CLOSING\_NULL\_CURSOR

Mutant: 226 - Type: CLOSING\_NULL\_CURSOR

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Mutant: 250 - Type: CLOSING\_NULL\_CURSOR

Mutant: 251 - Type: CLOSING\_NULL\_CURSOR

Mutant: 252 - Type: CLOSING\_NULL\_CURSOR

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Mutant: 254 - Type: CLOSING\_NULL\_CURSOR

Mutant: 255 - Type: CLOSING\_NULL\_CURSOR

Mutant: 256 - Type: CLOSING\_NULL\_CURSOR

Mutant: 257 - Type: CLOSING\_NULL\_CURSOR

Mutant: 258 - Type: CLOSING\_NULL\_CURSOR

Mutant: 259 - Type: CLOSING\_NULL\_CURSOR

Mutant: 260 - Type: CLOSING\_NULL\_CURSOR

Mutant: 261 - Type: CLOSING\_NULL\_CURSOR

Mutant: 262 - Type: CLOSING\_NULL\_CURSOR

Mutant: 263 - Type: CLOSING\_NULL\_CURSOR

Mutant: 264 - Type: CLOSING\_NULL\_CURSOR

Mutant: 265 - Type: CLOSING\_NULL\_CURSOR

Mutant: 266 - Type: CLOSING\_NULL\_CURSOR

Mutant: 267 - Type: CLOSING\_NULL\_CURSOR

Mutant: 268 - Type: CLOSING\_NULL\_CURSOR

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Mutant: 276 - Type: CLOSING\_NULL\_CURSOR

Mutant: 277 - Type: CLOSING\_NULL\_CURSOR

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Mutant: 279 - Type: CLOSING\_NULL\_CURSOR

Mutant: 280 - Type: CLOSING\_NULL\_CURSOR

Mutant: 281 - Type: CLOSING\_NULL\_CURSOR

Mutant: 282 - Type: CLOSING\_NULL\_CURSOR

Mutant: 283 - Type: CLOSING\_NULL\_CURSOR

Mutant: 284 - Type: CLOSING\_NULL\_CURSOR

abr 10, 2020 11:16:28 PM edu.wm.cs.mplus.processors.MutationsProcessor process

ADVERTENCIA: - Error generating mutant 285

java.lang.NullPointerException

at edu.wm.cs.mplus.processors.MutationsProcessor.process(MutationsProcessor.java:55)

at edu.wm.cs.mplus.MPlus.runMPlus(MPlus.java:90)

at edu.wm.cs.mplus.MPlus.main(MPlus.java:21)

Mutant: 286 - Type: CLOSING\_NULL\_CURSOR

Mutant: 287 - Type: CLOSING\_NULL\_CURSOR

Mutant: 288 - Type: CLOSING\_NULL\_CURSOR

Mutant: 289 - Type: CLOSING\_NULL\_CURSOR

Mutant: 290 - Type: CLOSING\_NULL\_CURSOR

Mutant: 291 - Type: CLOSING\_NULL\_CURSOR

Mutant: 292 - Type: CLOSING\_NULL\_CURSOR

Mutant: 293 - Type: CLOSING\_NULL\_CURSOR

Mutant: 294 - Type: CLOSING\_NULL\_CURSOR

Mutant: 295 - Type: CLOSING\_NULL\_CURSOR

Mutant: 296 - Type: NOT\_PARCELABLE

Mutant: 297 - Type: NOT\_PARCELABLE

Mutant: 298 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 299 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 300 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 301 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 302 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 303 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 304 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 305 - Type: FINDVIEWBYID\_RETURNS\_NULL

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Mutant: 328 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 329 - Type: FINDVIEWBYID\_RETURNS\_NULL

Mutant: 330 - Type: LENGTHY\_GUI\_LISTENER

Mutant: 331 - Type: LENGTHY\_GUI\_LISTENER

Mutant: 332 - Type: LENGTHY\_GUI\_LISTENER

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Mutant: 379 - Type: NULL\_VALUE\_INTENT\_PUT\_EXTRA

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Mutant: 450 - Type: NULL\_VALUE\_INTENT\_PUT\_EXTRA

Mutant: 451 - Type: NULL\_VALUE\_INTENT\_PUT\_EXTRA

Mutant: 452 - Type: LENGTHY\_GUI\_CREATION

Mutant: 453 - Type: LENGTHY\_GUI\_CREATION

Mutant: 454 - Type: LENGTHY\_GUI\_CREATION

Mutant: 455 - Type: LENGTHY\_GUI\_CREATION

Mutant: 456 - Type: INVALID\_KEY\_INTENT\_PUT\_EXTRA

Mutant: 457 - Type: INVALID\_KEY\_INTENT\_PUT\_EXTRA

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Mutant: 636 - Type: INVALID\_FILE\_PATH

Mutant: 637 - Type: INVALID\_FILE\_PATH

Mutant: 638 - Type: INVALID\_FILE\_PATH

## Mutantes elegidos y pruebas JUnit

Los mutantes elegidos para las pruebas JUnit con sus respectivos resultados fueron:

org.gnucash.android-mutant30 -> 80%

org.gnucash.android-mutant45 -> 100%

org.gnucash.android-mutant81 -> 100%

org.gnucash.android-mutant125 -> 100%

org.gnucash.android-mutant130 -> 84%

org.gnucash.android-mutant160 -> 96%

org.gnucash.android-mutant220 -> 96%

org.gnucash.android-mutant296 -> No compila

org.gnucash.android-mutant305 -> 100%

org.gnucash.android-mutant340 -> 100%

Para ver el detallado de los reportes de pruebas unitarias por cada mutante puede ir al siguiente enlace:

<https://github.com/lawchacon/Taller8/tree/master/2.MDROID%2B/Result%20TestCase%20GNUCash>

## Mutantes elegidos y pruebas Random

Para hacer las pruebas random se utilizó un monkey con 10.000 acciones, dando como resultado la siguiente información:

**Instrucción base**

>adb shell monkey -p org.gnucash.android -v 10000

**Resultado**

**Mutant: 30 - Type: VIEW\_COMPONENT\_NOT\_VISIBLE**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=9 pointers=3 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=109015ms (0ms mobile, 0ms wifi, 109015ms not connected)

// Monkey finished

**Mutant: 45 - Type: BUGGY\_GUI\_LISTENER**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=11 pointers=1 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=98610ms (0ms mobile, 0ms wifi, 98610ms not connected)

// Monkey finished

**Mutant: 81 - Type: DIFFERENT\_ACTIVITY\_INTENT\_DEFINITION**

Events injected: 10000

:Sending rotation degree=0, persist=false

// Allowing start of Intent { act=android.intent.action.VIEW cmp=org.gnucash.android/.ui.transaction.TransactionsActivity } in package org.gnucash.android

:Dropped: keys=10 pointers=5 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=208854ms (0ms mobile, 0ms wifi, 208854ms not connected)

// Monkey finished

**Mutant: 125 - Type: NULL\_INPUT\_STREAM**

// CRASH: org.gnucash.android (pid 4703)

// Short Msg: java.lang.NullPointerException

// Long Msg: java.lang.NullPointerException: Attempt to invoke interface method 'android.view.MenuItem android.view.MenuItem.setChecked(boolean)' on a null object reference

// Build Label: google/sdk\_gphone\_x86/generic\_x86:8.1.0/OSM1.180201.007/4586646:user/release-keys

// Build Changelist: 4586646

// Build Time: 1517878968000

// java.lang.NullPointerException: Attempt to invoke interface method 'android.view.MenuItem android.view.MenuItem.setChecked(boolean)' on a null object reference

// at org.gnucash.android.ui.transaction.TransactionsListFragment.onPrepareOptionsMenu(TransactionsListFragment.java:189)

// at android.support.v4.app.Fragment.performPrepareOptionsMenu(Fragment.java:2382)

// at android.support.v4.app.FragmentManagerImpl.dispatchPrepareOptionsMenu(FragmentManager.java:3311)

// at android.support.v4.app.FragmentController.dispatchPrepareOptionsMenu(FragmentController.java:331)

// at android.support.v4.app.FragmentActivity.onPreparePanel(FragmentActivity.java:492)

// at android.support.v7.view.WindowCallbackWrapper.onPreparePanel(WindowCallbackWrapper.java:98)

// at android.support.v7.app.AppCompatDelegateImplBase$AppCompatWindowCallbackBase.onPreparePanel(AppCompatDelegateImplBase.java:359)

// at android.support.v7.view.WindowCallbackWrapper.onPreparePanel(WindowCallbackWrapper.java:98)

// at android.support.v7.app.ToolbarActionBar$ToolbarCallbackWrapper.onPreparePanel(ToolbarActionBar.java:521)

// at android.support.v7.app.ToolbarActionBar$MenuBuilderCallback.onMenuModeChange(ToolbarActionBar.java:595)

// at android.support.v7.widget.ActionMenuView$MenuBuilderCallback.onMenuModeChange(ActionMenuView.java:786)

// at android.support.v7.view.menu.MenuBuilder.changeMenuMode(MenuBuilder.java:830)

// at android.support.v7.widget.ActionMenuPresenter$OpenOverflowRunnable.run(ActionMenuPresenter.java:802)

// at android.os.Handler.handleCallback(Handler.java:790)

// at android.os.Handler.dispatchMessage(Handler.java:99)

// at android.os.Looper.loop(Looper.java:164)

// at android.app.ActivityThread.main(ActivityThread.java:6494)

// at java.lang.reflect.Method.invoke(Native Method)

// at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit.java:438)

// at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:807)

//

\*\* Monkey aborted due to error.

Events injected: 4621

:Sending rotation degree=0, persist=false

:Dropped: keys=4 pointers=3 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=89387ms (0ms mobile, 0ms wifi, 89387ms not connected)

\*\* System appears to have crashed at event 4621 of 10000 using seed 1586821216190

**Mutant: 130 - Type: INVALID\_DATE**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=6 pointers=2 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=180531ms (0ms mobile, 0ms wifi, 180531ms not connected)

// Monkey finished

**Mutant: 160 - Type: NULL\_INTENT**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=10 pointers=1 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=211282ms (0ms mobile, 0ms wifi, 211282ms not connected)

// Monkey finished

**Mutant: 220 - Type: CLOSING\_NULL\_CURSOR**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=10 pointers=8 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=235511ms (0ms mobile, 0ms wifi, 235511ms not connected)

// Monkey finished

**Mutant: 296 - Type: NOT\_PARCELABLE**

No compiló.

**Mutant: 305 - Type: FINDVIEWBYID\_RETURNS\_NULL**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=8 pointers=0 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=246355ms (0ms mobile, 0ms wifi, 246355ms not connected)

// Monkey finished

**Mutant: 340 - Type: LENGTHY\_GUI\_LISTENER**

Events injected: 10000

:Sending rotation degree=0, persist=false

:Dropped: keys=4 pointers=2 trackballs=0 flips=0 rotations=0

## Network stats: elapsed time=217908ms (0ms mobile, 0ms wifi, 217908ms not connected)

// Monkey finished