RECORDING SERVICE SM

onCreate()

S0 - Rec never started

isRecording = false
isRecordingInPause = false

mStartingTimeMillis = 0
pauseTimeStart = 0
pauseTimeEnd = 0
totalBreakTime = 0

VARIABLES

isRecording
isRecordingInPause

mStartingMillis
pauseTimeStart
pauseTimeEnd
totalBreakTime

Rec button pressed [!intent.hasExtra("inPause")]
/ onStartCommand()

S1 - Recording, never been in Paused before

isRecording = true
isRecordingInPause = false

mStartingTimeMillis = now
pauseTimeStart = 0
pauseTimeEnd = 0
totalBreakTime = 0

Pause button pressed
[intent.hasExtra("inPause")]
/ onStartCommand()

S3 - inPause

isRecording = true
isRecordingInPause = true

mStartingTimeMillis = old(mStartingTimeMillis)

totalBreakTime = SUM(pauseTimeEnd - pauseTimeStart) > 0
pauseTimeStart = now
pauseTimeEnd >= 0
pauseTimeEnd > pauseTimeStart

Pause button pressed
[intent.hasExtra("inPause")]/
onStartCommand()

Rec button pressed
[intent.hasExtra("inPause")]/
onStartCommand()

S4 - Recording from Pause

isRecording = true
isRecordingInPause = false

mStartingTimeMillis = old(mStartingTimeMillis)

totalBreakTime = SUM (pauseTimeEnd - pauseTimeStart) > 0
pauseTimeStart > 0
pauseTimeEnd = now
pauseTimeEnd > pauseTimeStart

Stop button pressed
/ onDestroy ()

Stop button pressed/
onDestroy ()

Stop button pressed
/ onDestroy()

S2 - Stopped

isRecording = false
isRecordingInPause = false

mStartingTimeMillis = old(mStartingTimeMillis)

pauseTimeStart >= 0
pauseTimeEnd = now OR pauseTimeEnd = 0
pauseTimeEnd >= pauseTimeStart
totalBreakTime = SUM (pauseTimeEnd - pauseTimeStart) >= 0

- CREATED AUDIO FILE (.wav) -

S0

onStartCommand()

S1

onDestroy   onStartCommand()

S2

S3

onStartCommand()   onDestroy()

S4

S2

onDestroy()   onStartCommand()

S2

S3

onDestroy()

S2

Tree complement:
every recording cannot
remain on Pause forever,
it must have an end