



Type II error (false negative)

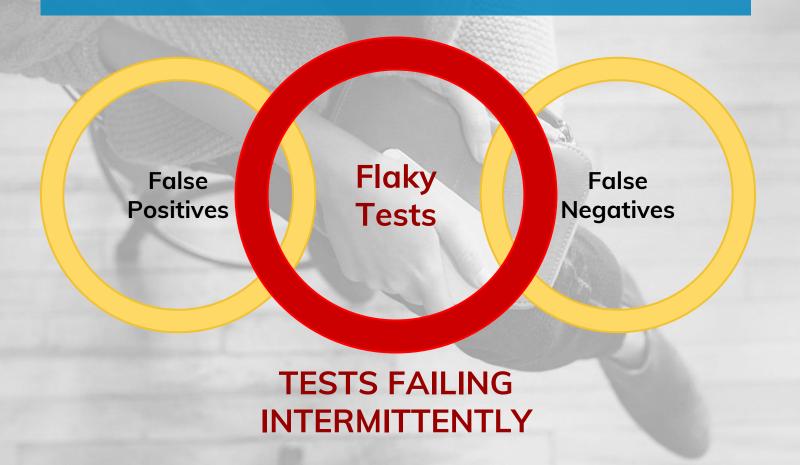


The test is r when the

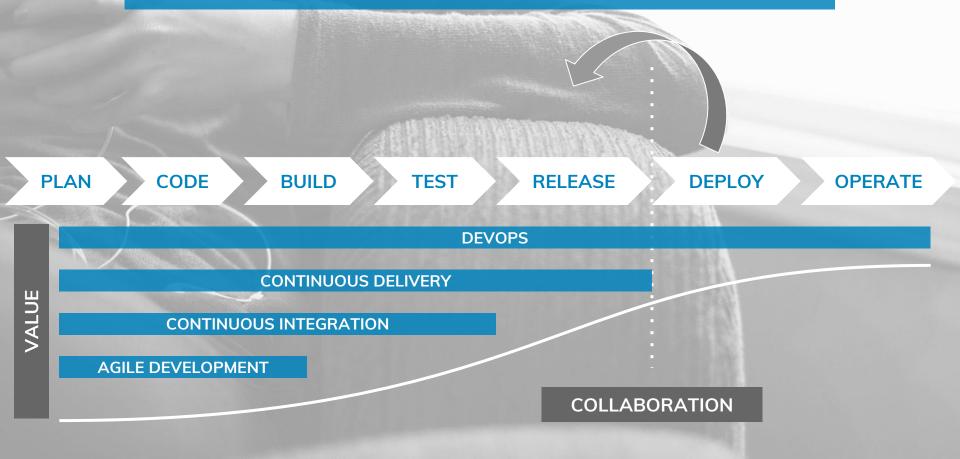
Ve 3.1 Type I and Type II errors

d as Failed, nality is not

#### ...YOU CAN ENCOUNTER SOMETHING WORSE



#### **CONTINUOUS: VALUE vs RISK**







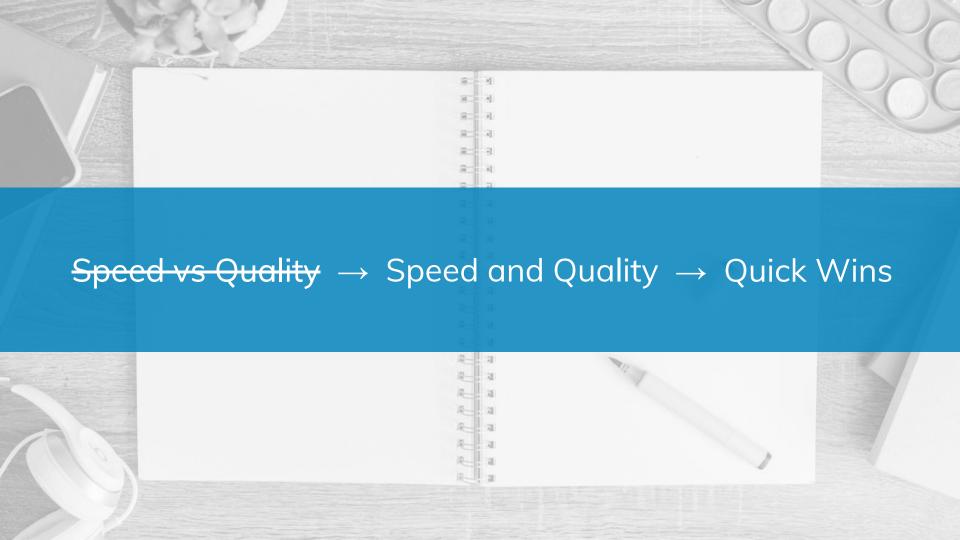
## Pains of "high tech" companies



- → Lack of time:
  - No TDD/BDD/XP, lack of Unit tests
  - No documentation
  - Not enough testers!
- Event-driven development (CES, IoT World, etc.)
- Chaotic environment with constantly changing priorities (on a daily basis)

#### "PICK TWO" → NEVERENDING DILEMMA...







#### Toolset and collaboration



TEST MANAGEMENT



COMMUNICATION & NOTIFICATIONS

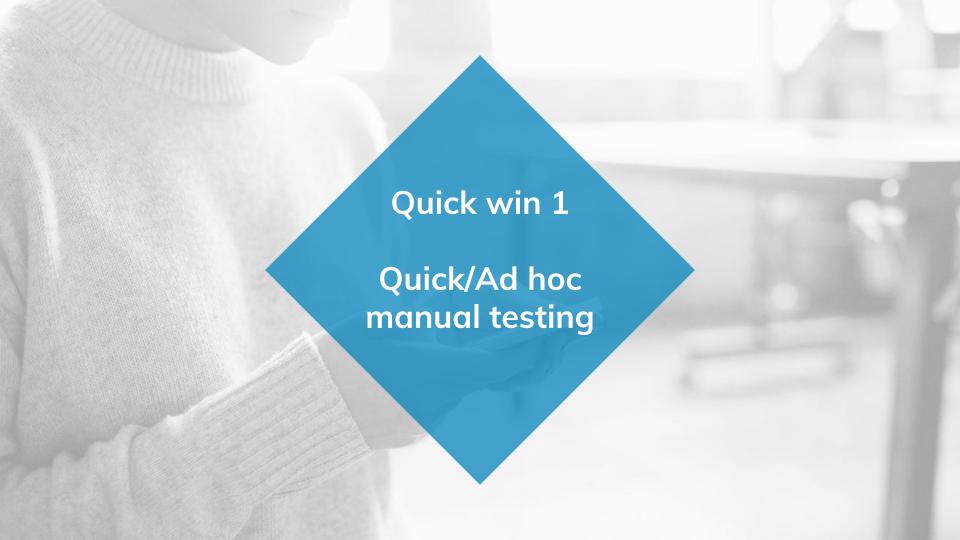


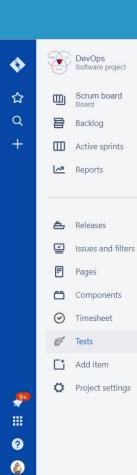


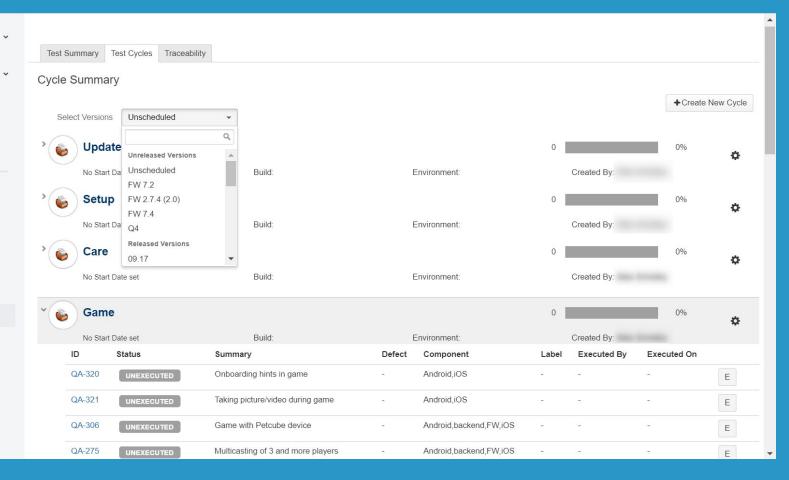
PROJECT MANAGEMENT



CRASH REPORTING & LOGGING









**TESTS BUCKET** 







TEST SUITES (aka. TEST CYCLE!?)







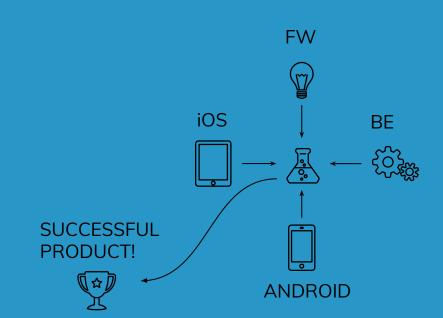






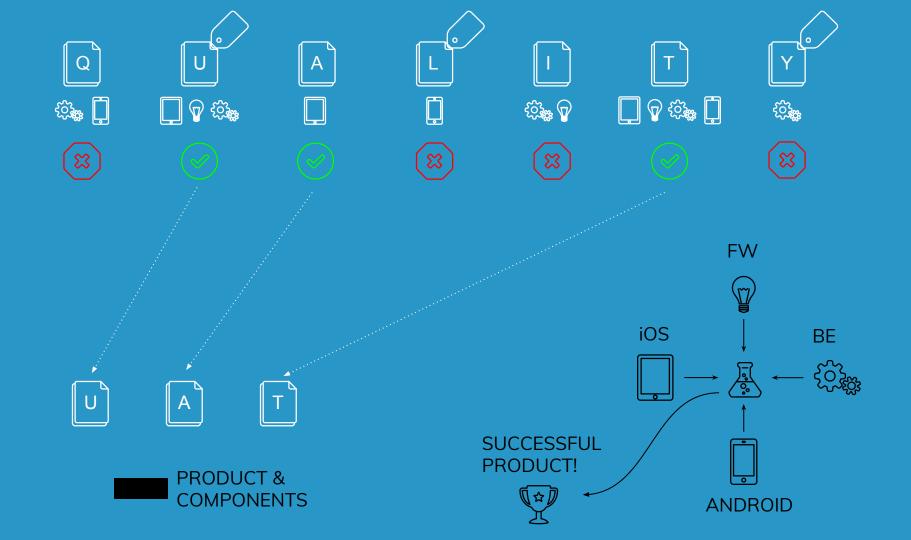


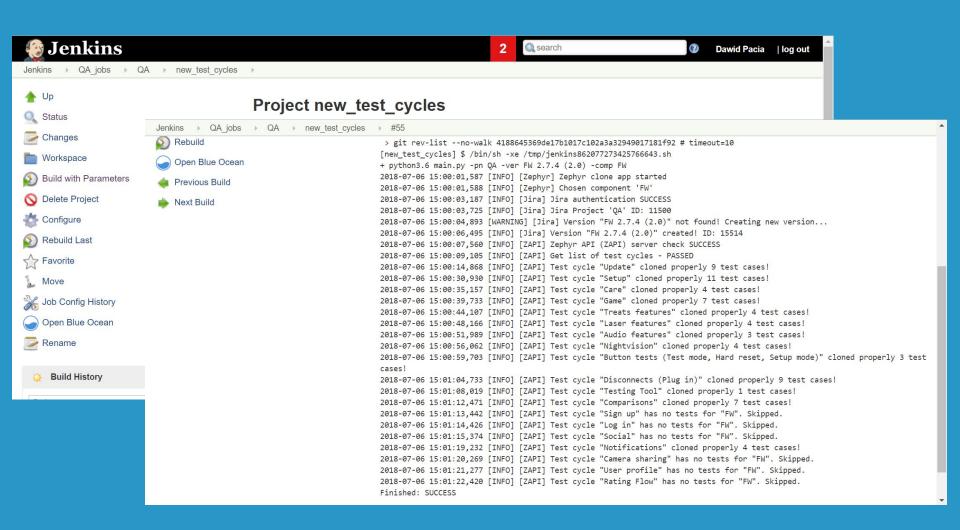
**TEST CASES** 











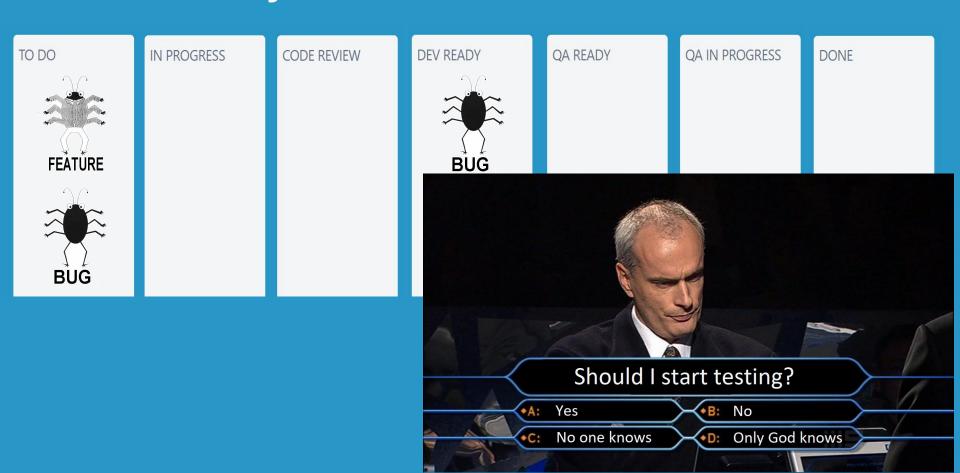
## **RUN TEST!**



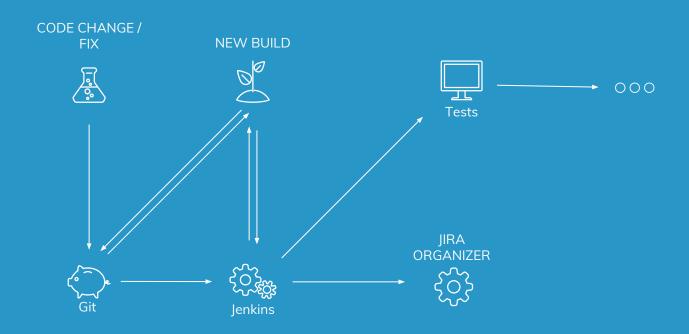
**RUUUNNN!!!** 



## Project issue/ticket workflow



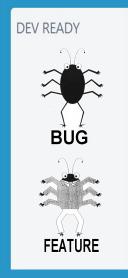
## Project issue/ticket workflow



## Project issue/ticket workflow

TO DO IN PROGRESS

CODE REVIEW

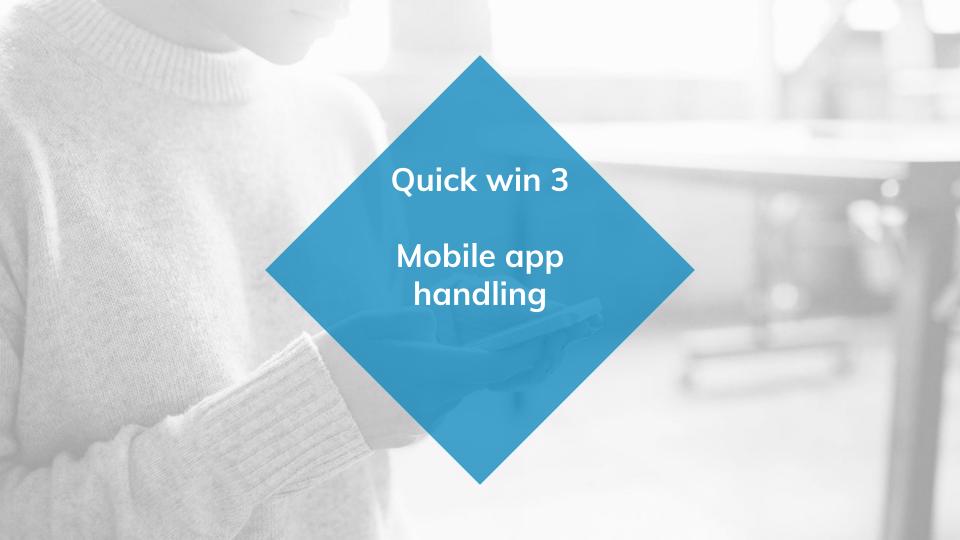


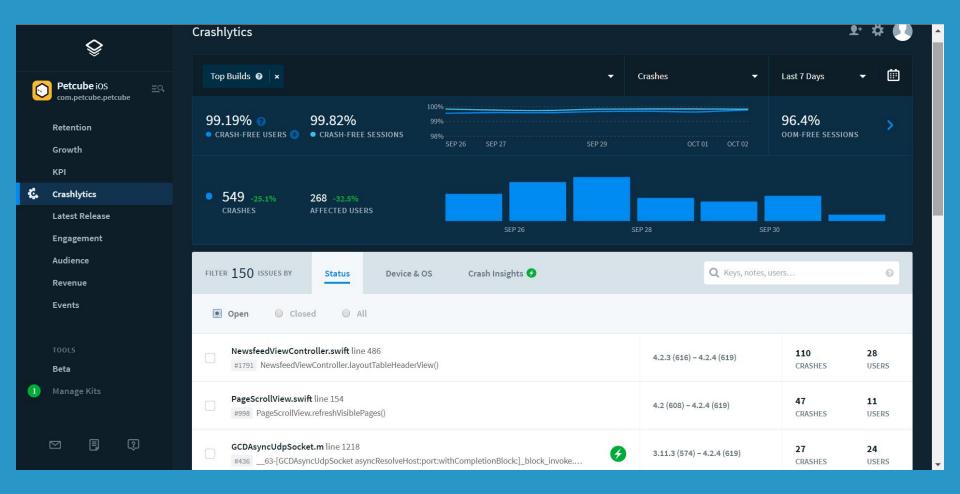


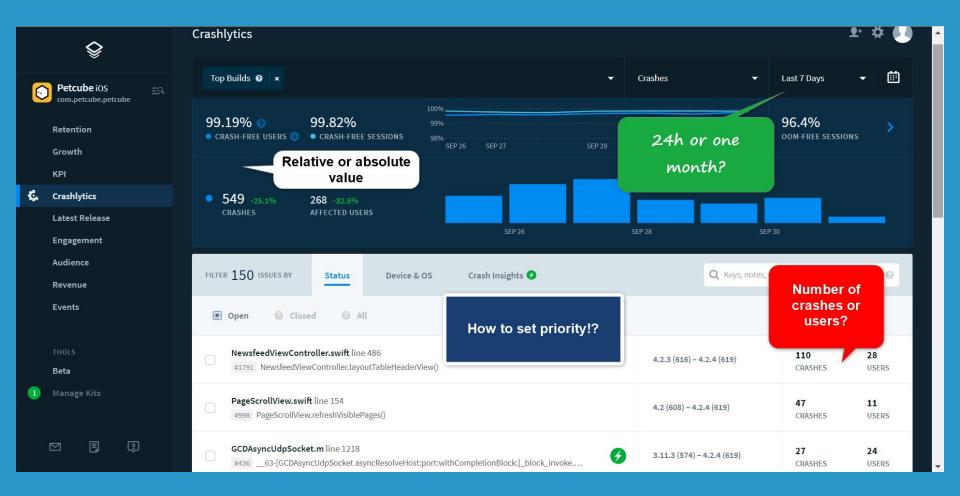
QA IN PROGRESS











#### Lets calculate statistics

Number of Occurrences and the number of We have following monthly stats: iOS = 44.4 WAU

OS = 44.4 WAU Android = 12.3k WAU

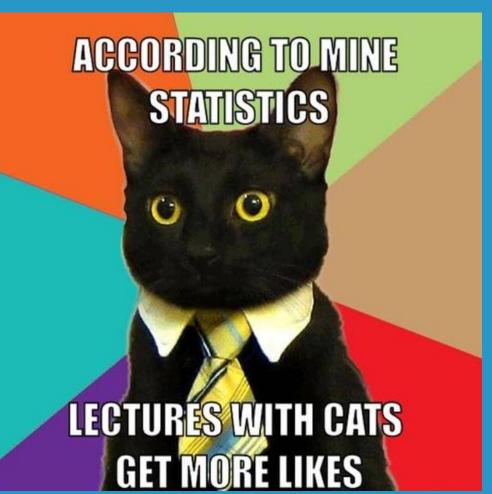
99.5% crash free sessions is a bottom line

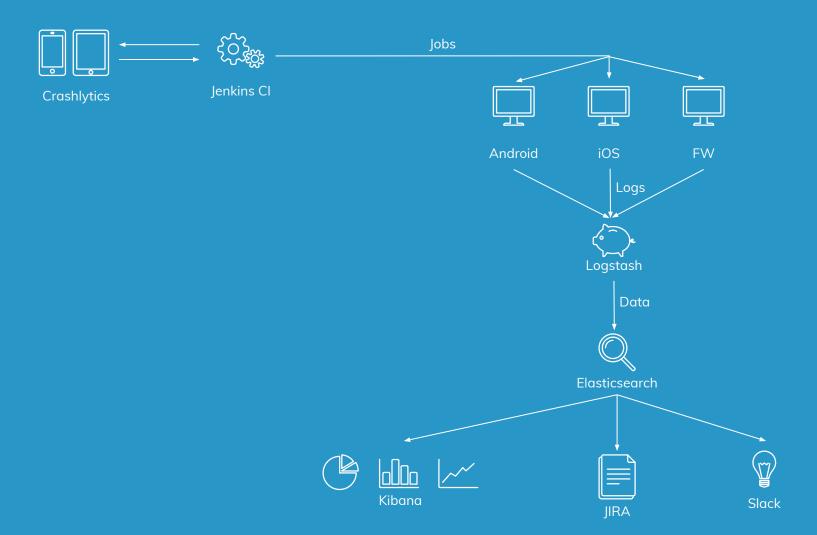
- → iOS: Less than 44.4k \* 0.005 = 222 cr
- → Android: Less than 12.3k \* 0.005 = 61

Crashed devices per week (CDpW) as a th

- → > CDpW = Blocker
- → > 50% \* CDpW = Critical
- → > 20% \* CDpW = High
- → < 20% \* CDpW = Middle

One more condition as Blocker is: Occurences this crash 3 times eq



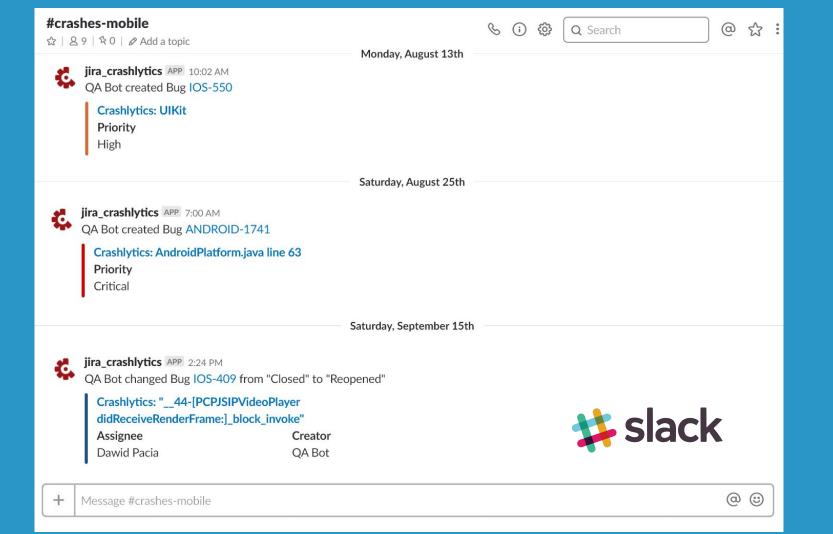


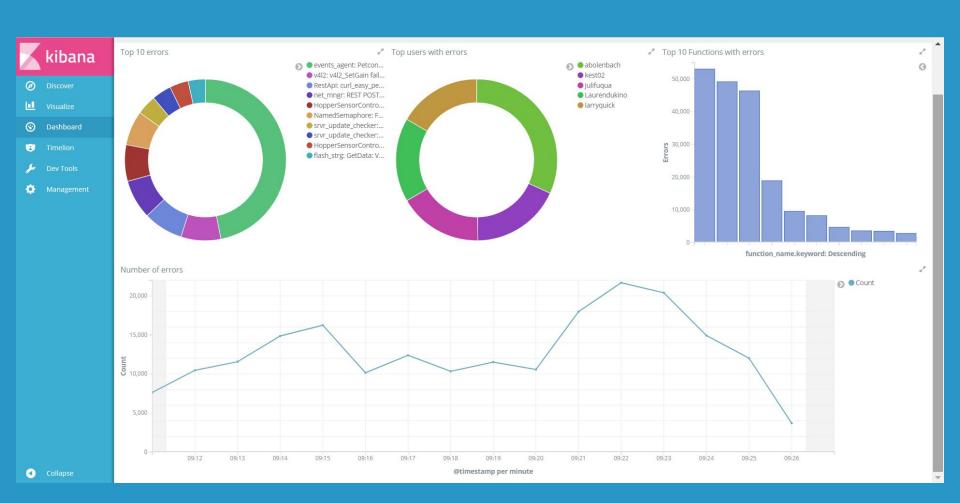
Т	Key	Summary	Assignee	Reporter	Р	Status	Resolution	Created 1	Updated	Due Epic Link	
*	IOS-371	Crashlytics: "pet_net_io_read"		QA Bot	<b>?</b>	CLOSED	Fixed	24/Apr/18	06/Jul/18		•••
	ANDROID-1555	Crashlytics: PetcRepositorySync.java line 184		QA Bot	0	CLOSED	Fixed	24/Apr/18	02/Jul/18		
	ANDROID-1556	Crashlytics: GameComposeUseCaseImpl.java line 838		QA Bot	0	CLOSED	Fixed	24/Apr/18	05/Jul/18		
•	ANDROID-1557	Crashlytics: libc.so		QA Bot	0	REOPENED	Unresolved	24/Apr/18	02/Oct/18		
	ANDROID-1558	Crashlytics: libpjsipPetcube.so		QA Bot	^	REOPENED	Unresolved	24/Apr/18	02/Oct/18		
	IOS-402	Crashlytics: PhotoLibraryGridViewController.swift line 0		QA Bot	0	CLOSED	Fixed	04/May/18	11/May/18		
	IOS-409	Crashlytics: "44-[PCPJSIPVideoPlayer didReceiveRenderFrame:]_block_invoke"		QA Bot	^	REOPENED	Unresolved	08/May/18	23/Sep/18		
	IOS-412	Crashlytics: "NewsfeedPresentersPool.itemDidBecomeHidden(at : Int) - > $0$ "		QA Bot	*	CLOSED	Fixed	10/May/18	07/Jun/18		
	ANDROID-1582	Crashlytics: FileProviderUtil.java line 25		QA Bot	*	CLOSED	Fixed	19/May/18	25/Jun/18		
	IOS-440	Crashlytics: AWSSignature.m line 652		QA Bot	*	OPEN	Unresolved	26/May/18	21/Sep/18		





99 little bugs in the code, 99 little bugs, Take one down, Patch it around, 127 little bugs in the code.











## Takeaways

- → TestOps provides a unique aspect for automation and quality assurance
- → It plays a vital role to integrate the automated testing with Dev team for CI
- → Don't focus on tools! Focus on problem solving
- → Invest your time in continuous improvement
- Incorporate "quick-wins" approach into your everyday work
- Explore and investigate!

### let's party

# Thanks!



You can find me at:

in / paciadawid



