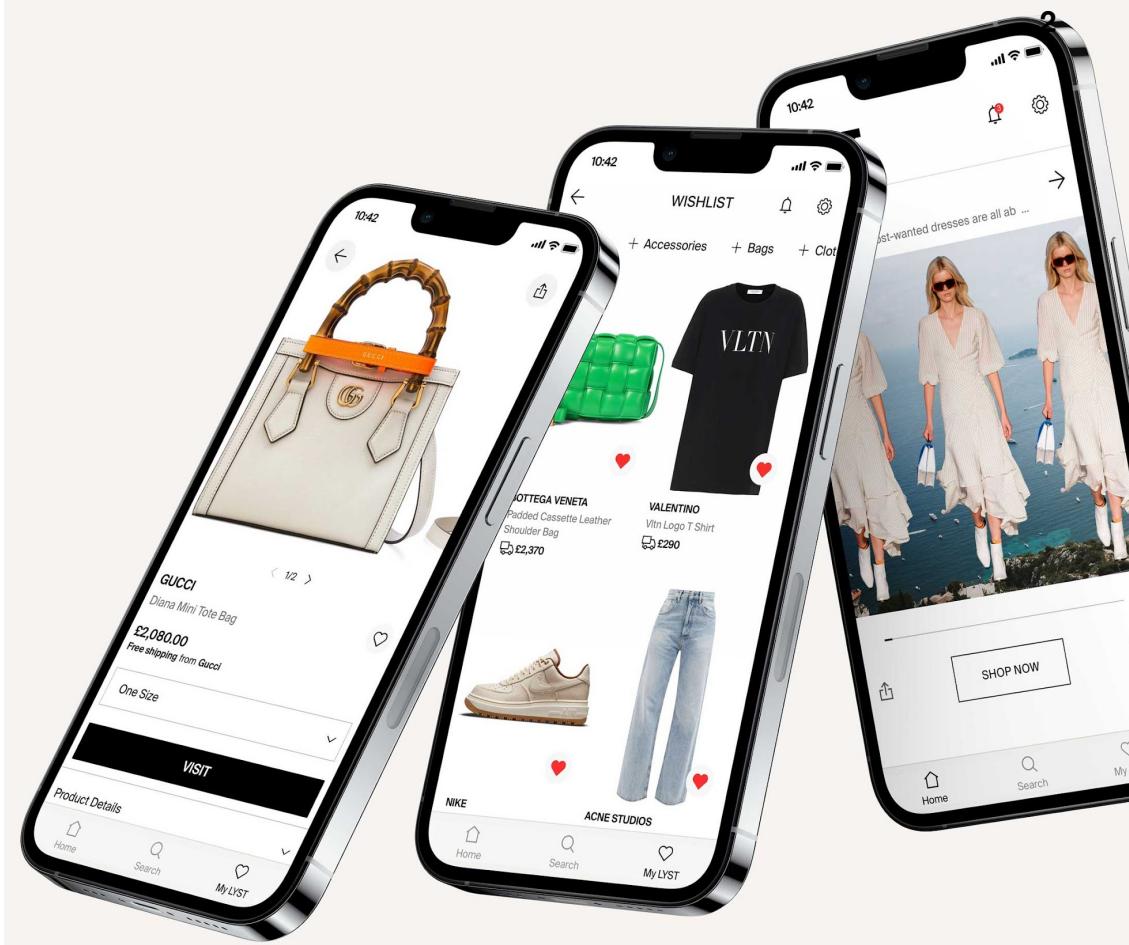


LYST

CPV Knowledge Share

APP RELEASE PROCESS



AGENDA

- Introduction
- Git / Deployments
- Release Week / Activities
- QA / Test Strategy
- Questions

SECTION 1

INTRODUCTION

Web vs App

	Web	Mobile Apps
Deploy	Immediate	Submit to Stores PlayStore: <i>Hours</i> AppStore: <i>Days</i>
Incident	Rollback	Submit a hotfix version PlayStore: <i>Hours</i> AppStore: <i>Days</i>
Version	Always latest Controlled by Server	Depends on user Controlled by Device
Support	Browser versions	System OS versions iOS: Amplitude active users Android: Google guideline
Usage	Active users	Platform specific material requirements
Marketing	As you wish	

SECTION 2

GIT / DEPLOYMENTS

Branching / PR Process

Features / Fixes

- Branch off of develop for a feature / fix
- (optional) If using a base branch then branch off for subtasks
- Develop feature
- Raise PR to development
- CI runs lint, unit test etc
- CI to trigger a internal build (iOS manual, Android automated)
- Design Review (recommended)
- Code Review (require 2 approvals)
- QA test before merge (recommended)
- Update JIRA! / Add milestones
- Merge to develop!
- Triggers new internal build (nightly to save credits)

Release

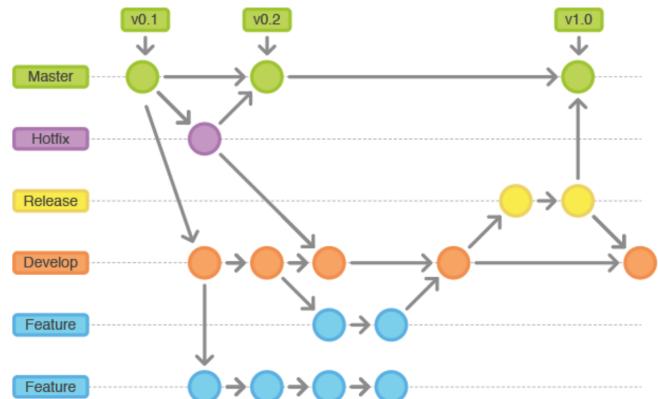
- Branch off of develop
- Raise PR to main
- CI runs lint, unit test etc
- CI runs ui automation e2e tests (3 hours total) (iOS only; Android coming soon)
- Merge to master/main
- CI / CD creates RC Beta build
- QA for e2e manual regression testing (1 day per platform)
- Send to App Store / Play Store for review

Hotfixes

- Branch off of main / master to avoid unplanned features being released
- Raise PR to main

A screenshot of a GitHub repository page for 'lyst/app-android'. The top navigation bar shows 'lyst/app-android Internal'. Below it, there are tabs for 'Code', 'Pull requests 14', 'Actions', 'Security', 'Insights', 'Settings', 'Docs', 'Firebase', and 'Bitrise'. A 'Milestones' tab is selected. A green progress bar indicates '2.5.0' is at 100% completion. Below the progress bar, a table lists pull requests:

Type	Title	Status	Comments
Hotfix	Hotfix/ND-930: Remove toolbar from AddBrandFragment	Approved	#930 by alein-lyst was merged 4 hours ago - Approved
Bugfix	Bugfix: Remove toolbar from AddBrandFragment	Approved	#930 by alein-lyst was closed 6 hours ago - Review required
Feature	Release/2.5.0	Approved	#935 by nevrosaurus was merged 4 days ago - Approved
Feature	Feature/AG-2041 base retrieve applied filters	Approved	#939 by wojciechowicz was merged 4 days ago - Approved
Bugfix	Bugfix/APB-840: Shared toolbar fix	Approved	#938 by alein-lyst was merged 4 days ago - Approved
Feature	Feature/APPLE-6252: Organise home module data layer	Approved	#924 by alein-lyst was merged 4 days ago - Approved
Feature	Feature/APPLE-6255: Organise home tab module data layer	Approved	#925 by alein-lyst was merged 4 days ago - Approved
Feature	Feature/APPLE-6307 Alerts analytics - Dismiss and view all	Ready for QA	#926 by alein-lyst was merged 4 days ago - Approved
Feature	Feature/APPLE-6309 Alerts analytics cleanup - launch event	Ready for QA	#928 by alein-lyst was merged 4 days ago - Approved
Feature	APPL-E-6208 - Alerts checkout behaviour	Ready for QA	#902 by nevrosaurus was merged 6 days ago - Approved
Feature	Feature/APPLE-6157 Data driven nudges for search	Ready for QA	#903 by nevrosaurus was merged 6 days ago - Approved
Feature	feature/APPLE-6304-Fix search landing value for guided journey	Ready for QA	#904 by nevrosaurus was merged 6 days ago - Approved



Deployments

	git develop	git release/	git main
Web	N/A	N/A	Deploy to Prod
iOS	Deploy internal build to Firebase	Deploy beta build to TestFlight	Deploy RC build to App Store Review
Android	Deploy internal build to Firebase	Deploy production variant to Firebase	Deploy to Play Store Review

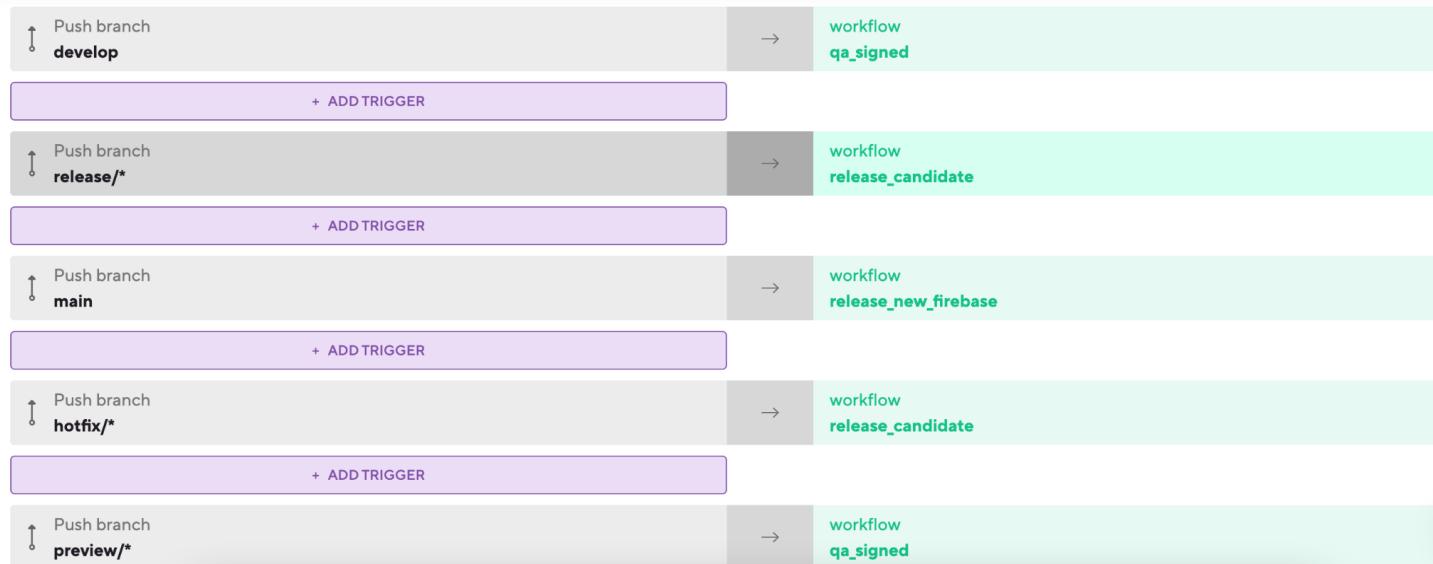
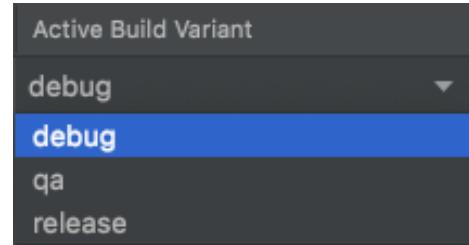
LYST

Build Variants (Android)

Debug → (logging)

QA → (logging) build that is triggered for feature branch

Prod → build triggered when merging in main





Build Variants (Android)



App Distribution

Lyt Android QA

Releases Invite links Testers & Groups

Drag and drop an APK or AAB to create a new release. AAB files require linking. [Learn more](#)

Browse

Releases (732) Contact email [orfeo.clano@lyt](#)

Search versions and notes

2.5.0-qa (59)

October 25, 2022 at 8:38:59 AM UTC+1

Invited Accepted Downloaded

67 24 0

Build 4691 () - develop Scheduled Daily adhoc build

2.5.0-qa (59)

October 24, 2022 at 6:29:00 PM UTC+1

Invited Accepted Downloaded

67 24 0

Build 4689 (f03e04f640834e0ff1b90619050ed1cb278e...)

App Tester App

11:02 2 5 6 7 ...

Bluetooth Wi-Fi 49% ⚡

← All test apps

 Lyst Q
com.lyst.lystapp.qa
No release installed
Contact: orfeo.ciano@lyst.com



Releases

 Search releases and notes

2.5.0-qa (59) 

Latest

Oct 20, 2022 at 8:42 am • 17.23 MB

 [Download](#)

 Build 4647 () - develop
Scheduled Daily adohc build

2.5.0-qa (59) 

Oct 19, 2022 at 6:51 pm • 17.23 MB

 Build 4646 (4f405c5faa304c25f4cf0ee8c4...)

2.5.0-qa (59) 

Oct 19, 2022 at 5:31 pm • 17.22 MB

 Build 4643 (15d80b5011b6ec25a0107e5...)



Build Variants (Android)



Internal testing

Create and manage internal testing releases to make your app available to up to 100 internal testers.

Track summary

Active • Latest release: 2.4.1

Releases

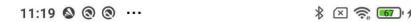
Testers

Releases

2.4.1

 Available to internal testers • 1 version code • Released on Oct 10 11:18 AM

Show summary ▾ Promote release ▾



Lyst: Shop Fashion
Brands (Internal Beta)
[Lyst Ltd](#)

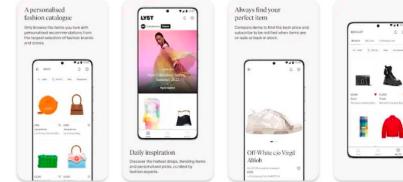
3.4 ★
659 reviews

1M+
Downloads

3
PEGI 3 ⓘ

Install

⚠ You're an internal tester. This app may be unsecure or unstable.



About this app

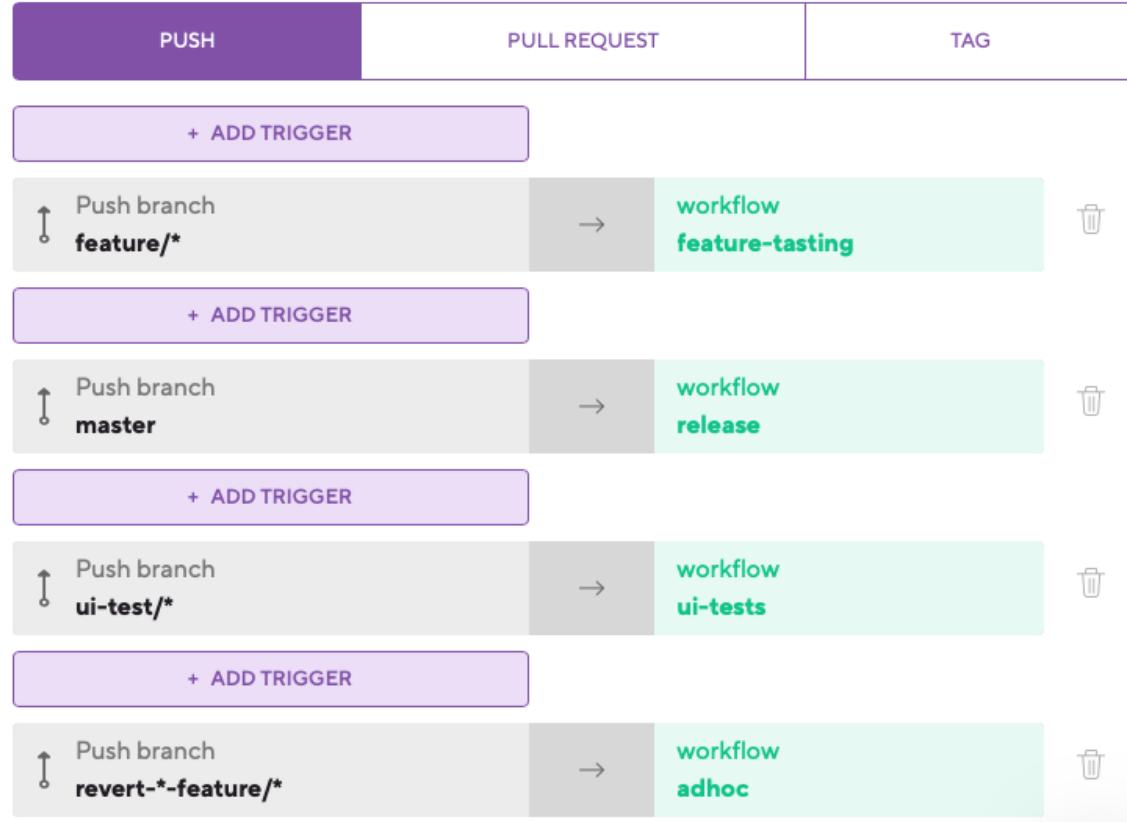
Shop the hottest items from over 12,000 of the world's trending brands.

Shopping

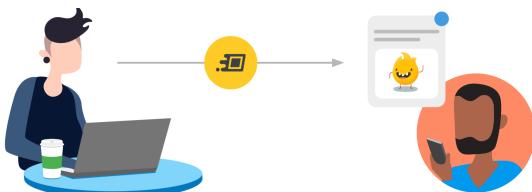
Data safety

Safety starts with understanding how developers collect and share your data. Data privacy and

Build Variants (iOS)



Build Variants (iOS)



Feature Tasting

Feature Complete

Lyst App ▾ App Distribution

Search versions and notes

Version	Build ID	Date	Invited	Accepted	Downloaded
8.6.0 (12421)	Build 38ff641: (shagun.madhikarmi@ly.st) Merge pull re...	September 16, 2022 at 8:14:32 AM UTC+1	47	47	4
8.6.0 (12405)	feature-tasting: APP-1074: Fixed APN permission and e...	September 15, 2022 at 6:27:25 PM UTC+1	47	47	4
8.6.0 (12395)	Build d1a1594: (atakan.kartal@ly.st) Merge pull request...	September 15, 2022 at 8:15:14 AM UTC+1	47	47	2

LYST

Build Variants (iOS)



11:06 ⓘ 5G 🔋

apps Lyst: Shop Fashion Brands Version 8.7.0 (12851) Expires in 81 days OPEN

Release Candidate

iOS Builds
The following builds are available to test. [Learn more about build status and metrics.](#)

Version 8.7.0

BUILD	STATUS	GROUPS	INVITES	INSTALLS
LYST 12851	Ready to Submit Expires in 80 days	AS	20	48
LYST 12821	Ready to Submit Expires in 77 days	AS	20	25

Previous Builds

App Information

App Details >
Automatic Updates
Notifications Push, Email >

Developer

General Information
All Testers (25 of 10,100)
Test Information
About TestFlight Data ?

Feedback
Crashes
Screenshots

Internal Testing +
AS App Store Connect Users

External Testing +
ET External Testers

Previous Builds 8.7.0 (12851) >

SECTION 3

RELEASE WEEK / SPRINT

Release Week Activities

01 Release Sync

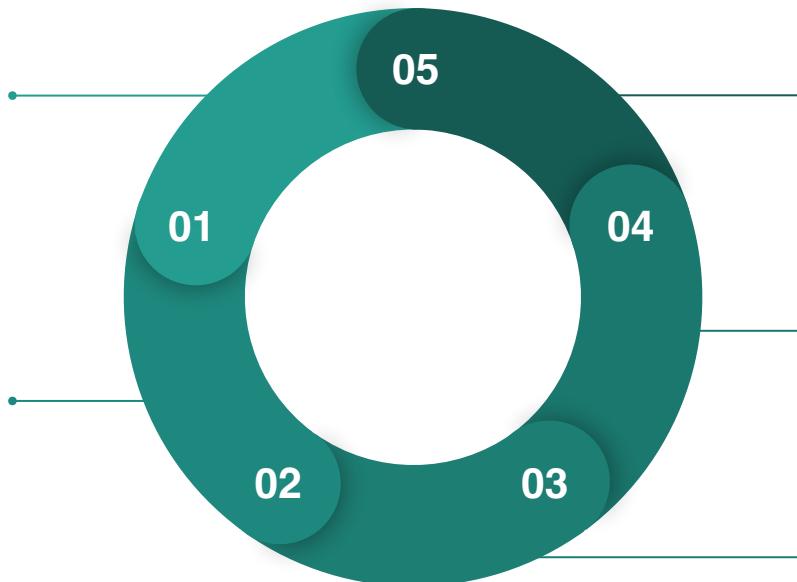
During the release week, we will have a sync between Dev and QA to go through the tickets planned for the release to get us prepared and allocate resources.

Android on Monday, iOS on Tuesday

02 Release Cut-off

Final call for features / pull requests that go into the release. We will cut a release branch from develop. Release candidates (RC) is built once it's ready. QA will do regression tests against the RC build.

Android on Wednesday, iOS on Thursday



05 Release to public

Once we complete a final check on Hemidall flags and release notes, QA will hit the publish button, then the new version will populate the store and publicly available within 12 hours. Monitor crash / error rates

04 QA Sign-off

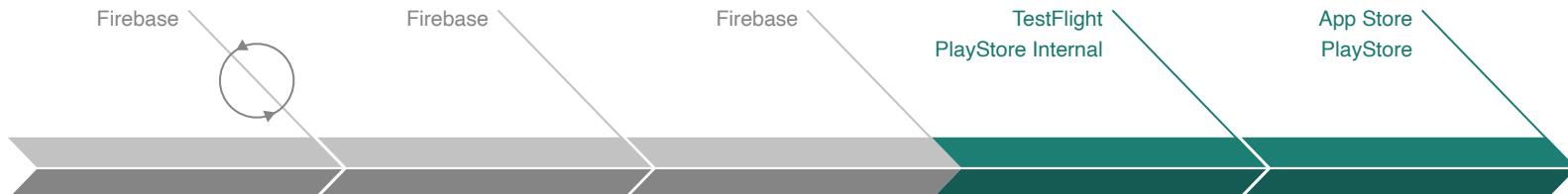
We will deem an RC ready for release once we get QA approval with a test report (and also approval from Apple for iOS).

03 Submit for approval

We will submit the iOS RC to Apple for recompile and review by EOD Friday. Since it usually takes around 48 hours, we can get the build ready by Monday morning.

*Android when QA Sign-Off
iOS on Fridays*

Sprint Activities



Feature Tasting

Alpha

Once a feature is ready for test, we will trigger a Firebase build for other stakeholders to test and feedback,

Feature Complete

Alpha

When a feature is completed - test passed, merged into develop. We will trigger a Firebase build to reflect the changes

Nightly build

Beta

A nightly build from develop is triggered by the CI every morning to create a build for all ready-features.

Release Cut-off

Release Candidate

Release candidate is made at the end of every sprint, to prepare for regression testing

Publish

Public Release

The approved release candidate will become the public release version

Post Release Activities

- Heimdall Flags (QA / Prod)
- Monitoring (Crashes) (Eng)
- Update Changelog / Confluence Page (QA / Eng)
- Post to #releases (Prod / Eng)

Lyst App ▾

Crashlytics iOS+ Lyst App (iOS) ▾

Go to docs 🔔 ?

[Dashboard](#) [dSYMs](#)

[Filter](#)

Crash-free statistics

Crash-free users ⓘ 99.76%

100%
99%
98%
97%
Oct 18 Oct 21 Oct 24

Trends

Crashes	Users	Non-fatals	Users
1.3K	1K	34K	29K
-14.9%	-6.2%	-21.1%	-23.5%

Last 7 days
Oct 18 - Oct 24

Latest Release

LYST Spaces People Calendars Create ...

Pages / ... / Engineering - iOS Chapter 15 Jira links Edit S

Timeline of Releases and Important Events - iOS

Created by David Giusti, last modified by Sri Divya Peddi on Oct 13, 2022

Date **Version** **Features** **Impact**

12 Oct 2022 v8.7.0

Purpose

Prepare release of version 8.7.0 (RC2)

- CarryOver from RC1
- APP-1216:

Prepare release of version 8.7.0 (RC1)

Shopping

- AG-2027: Move sort by filter out of quick filters ✓
- AG-2074: Fix user generated list displaying the incorrect number of items
- AG-2019: Search

Home

- APPLE-6179: Guided Journey Implement Analytic
- APPLE-6189 Guided Journey Implement to Search
- APPLE-6187: Guided Journey Create UI
- APPLE-6240: Transparent stack notification

Releases / 2.4.1

Release 2.4.1 Latest

alan-lyst released this 14 days ago · 25 commits to main since this release 2.4.1 · ec3525d

Changelog: <https://git.lystit.com/lyst/app-android/milestone/26?closed=1>

Assets 4

- 2.4.1-signed.aab
- 2.4.1-signed.apk
- Source code (zip)
- Source code (tar.gz)



You're Invited!

SECTION 4

QA / TEST STRATEGY



LYST

SOFTWARE



BUSINESS
*&\$!#%

REPUTATION



INJURY
OR DEATH



HUMAN
ERROR

MONEY
& TIME



TIME
PRESSURE



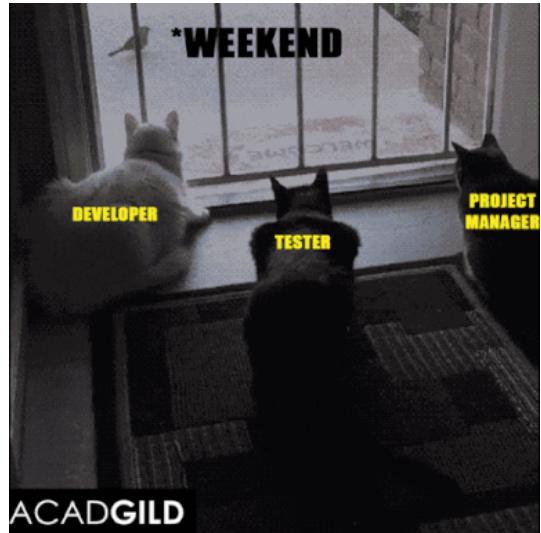
E
R
R
O
R
O
R

DEFECT IN
CODE OR
FAILURE OF THE
SYSTEM



LYST

TEST?



WAYS WE TEST

FEATURE TESTING

TESTING NEW FEATURES DESIGNED TO BE USEFUL, INTUITIVE AND EFFECTIVE



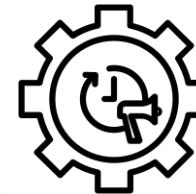
SMOKE TESTING

TESTING BASIC AND CRITICAL FUNCTIONALITIES ARE STILL STABLE AFTER DEPLOYMENTS



REGRESSION

TESTING NEW CODE CHANGES TO CONFIRM NO ADVERSE SIDE EFFECTS TO EXISTING FUNCTIONALITIES

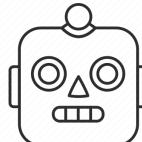


QA



EXPLORATORY

TESTING ON THE FLY WITH A PURPOSE TO FIND BUGS



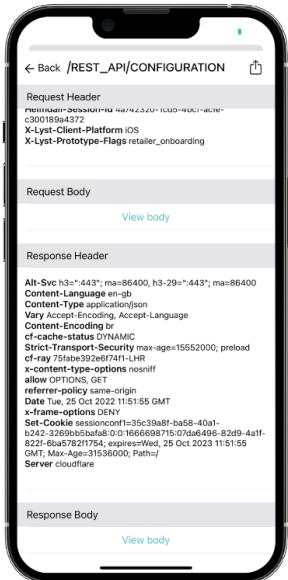
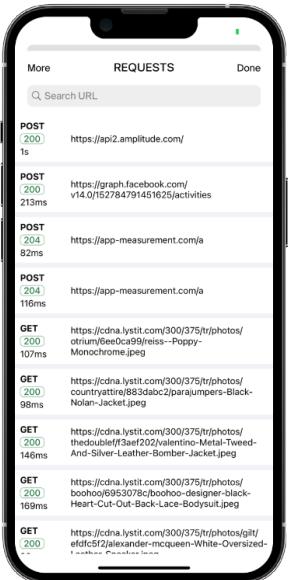
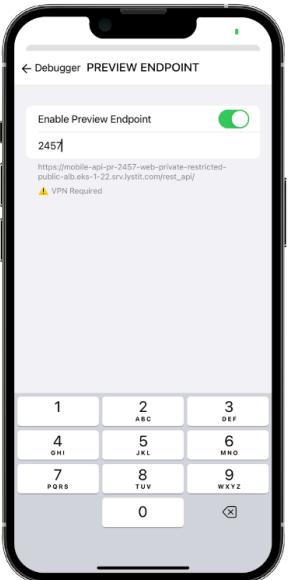
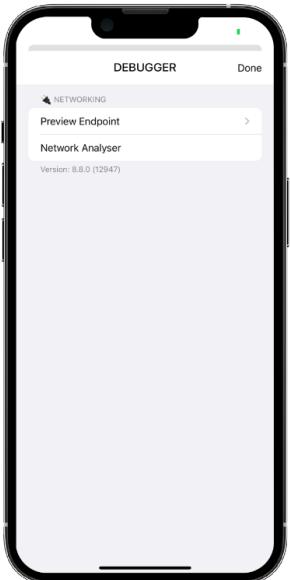
UI AUTOMATION

INCREASING TEST COVERAGE TO FOSTER FASTER TEST EXECUTION

iOS Debugger (shake your phone)



X



0 of 0

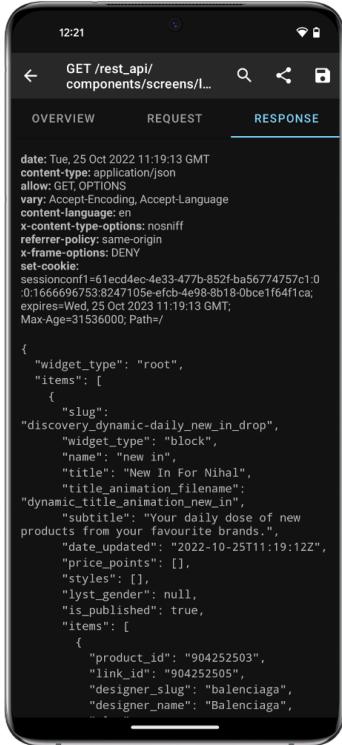
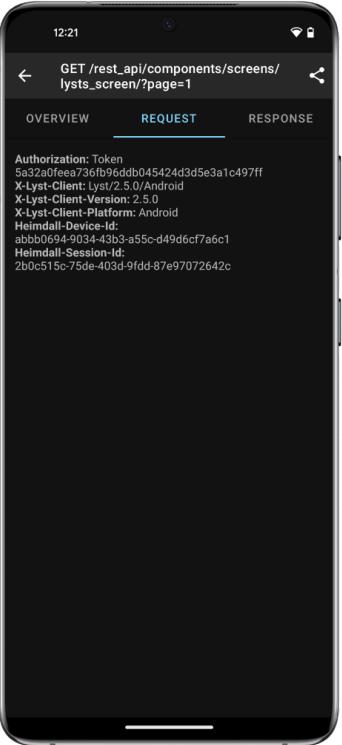
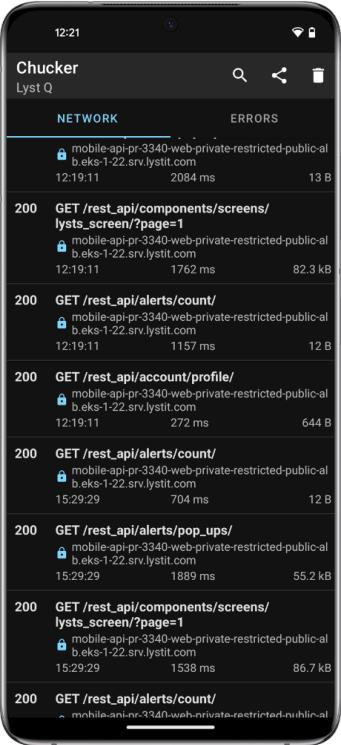
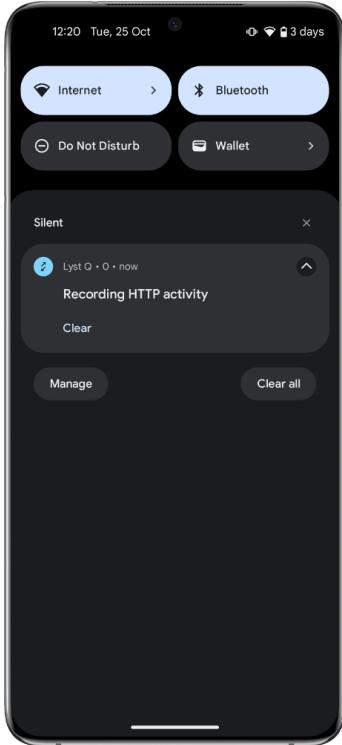
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Lyst Q Chucker (Android)

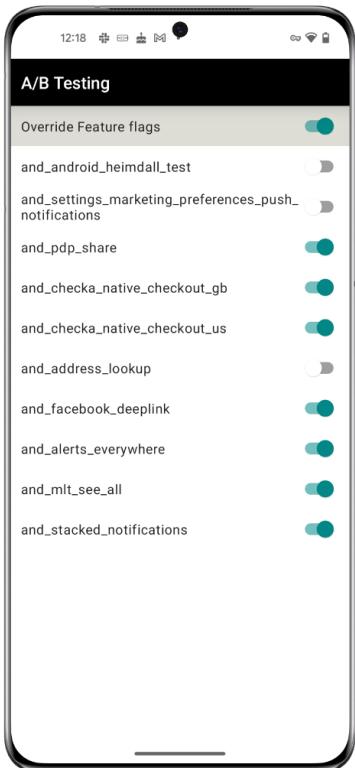
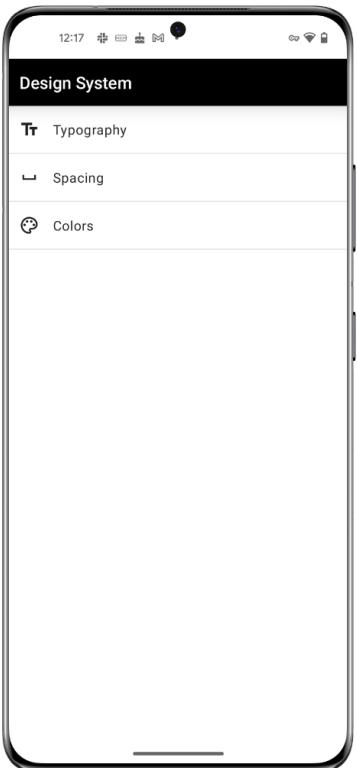
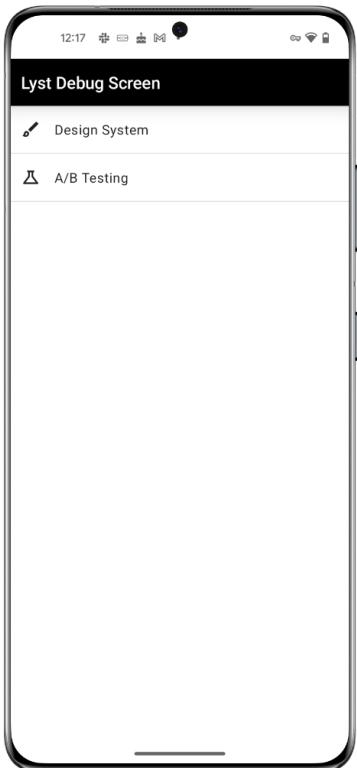
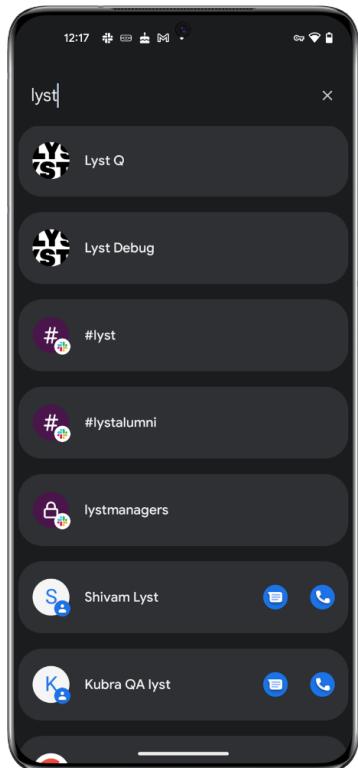


X





Lyst Debug App (Android)



QUESTIONS ?