PERFORMANCE TESTING

TEAM ID; PNT2022TMID34370

NFT – Risk Assessment

S.No	Project Name	Scope /Feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume changes	Risk Score	Justification
1	Smart Farmer	Query Form	Low	No Changes	Low		>5 to 10%	Green	As we seen changes
2	Smart Farmer	Manual Guide	Low	No changes	Low		>5 to 10%	Green	As we seen changes
3	Smart Farmer	Motor on for 30 minutes	High	No changes	Moderate		>5 to 10%	Green	Because it provides new control
4	Smart Farmer	Login	Moderate	No Changes	Low		>5 to 10%	Red	Because it can block certain functional
4	Smart Farmer	Sign Out	Moderate	No changes	Low		>5 to 10%	Green	It doesn't have that much functionality but have some impact.

NFT – DETAILED PLAN

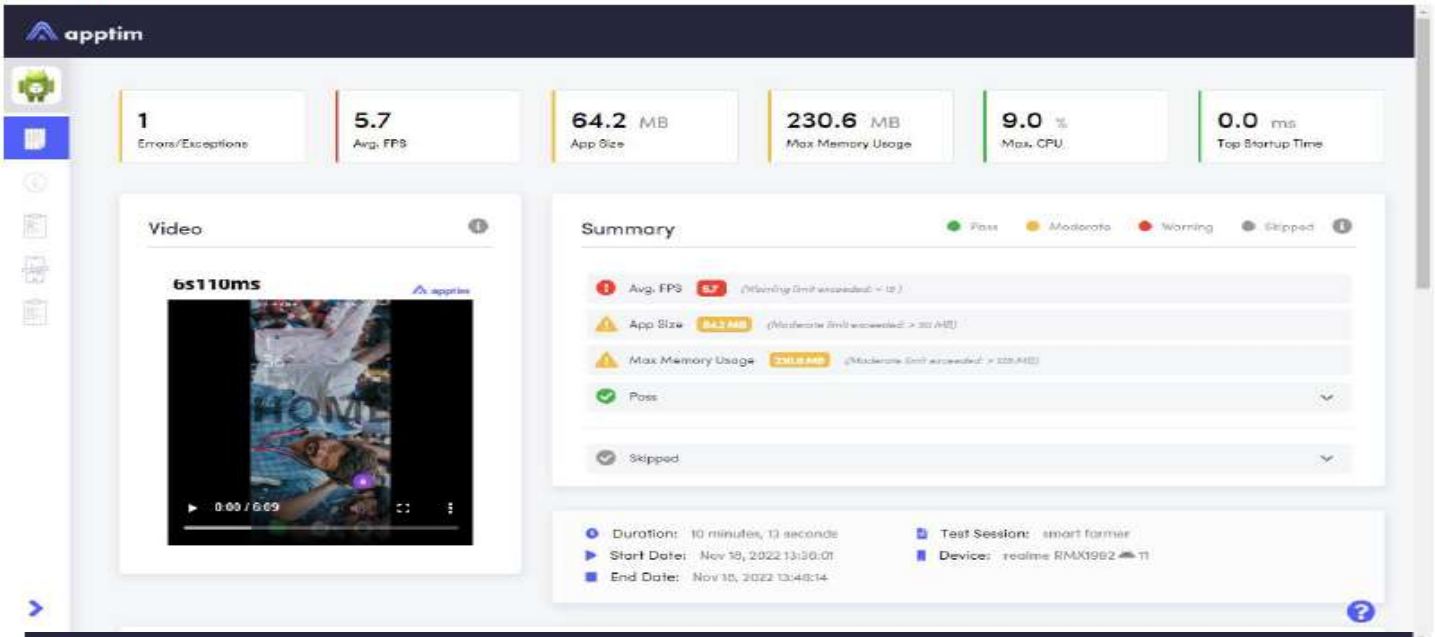
S.no	Project Overview	NFT Approach	Assumptions/Dependencies/Risks	Approvals/SignOff
1	SmartFarmer	Scalability Testing		Shanmugam(Team Lead)

END OF TEST REPORT

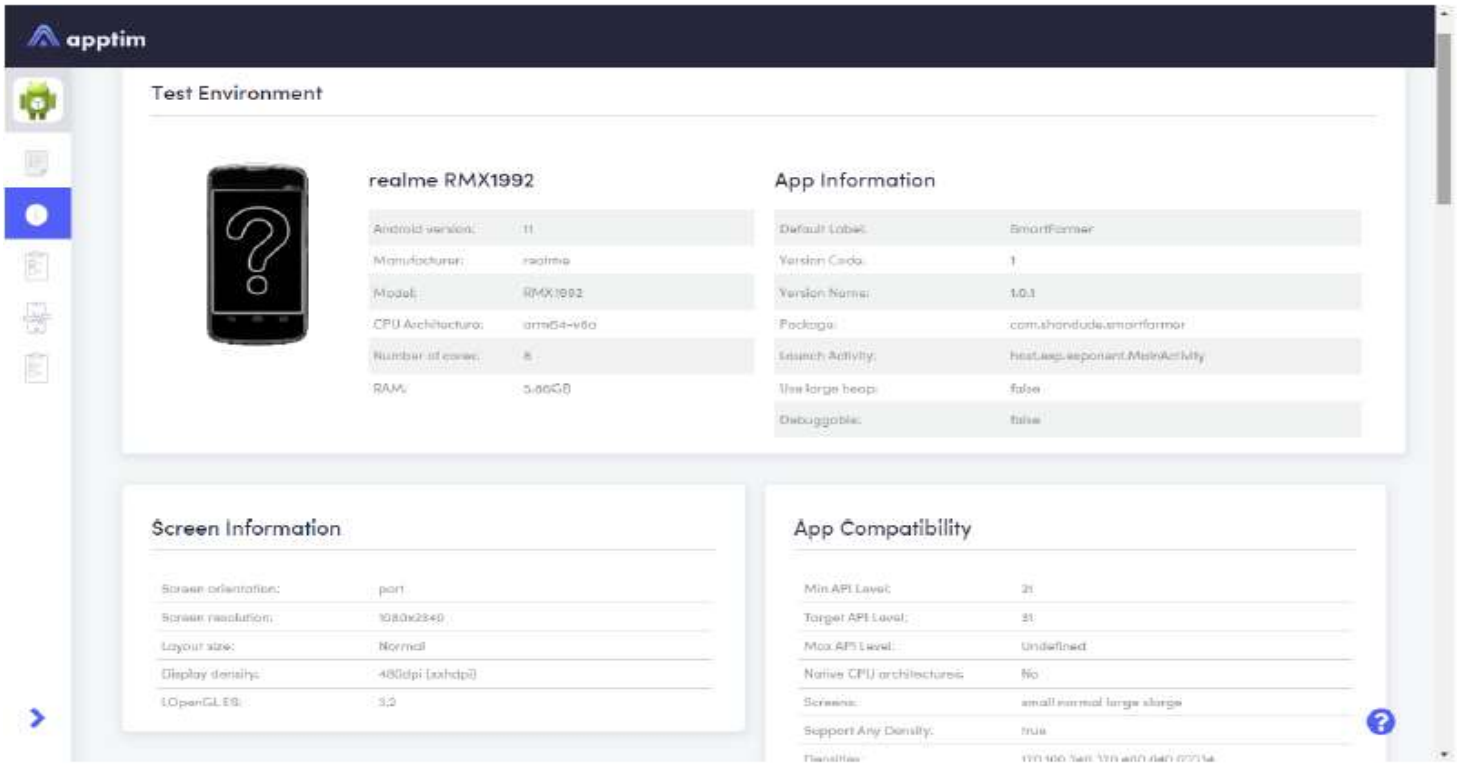
S. No	Project Overview	NFT Test Approach	NFR - Met	Test Outcome	Go/No-Go Decision	Recommendations	Identified Defects (Detected/Closed/ Open)	Approvals/ Signoff
1	Smartfarmer	Scalability Testing	Exceptations Satisfied	Cpu Usage, Memory Usage, Startup Time Etc	Go Decision	Nothing	Closed	Shanmugam (Team Lead)

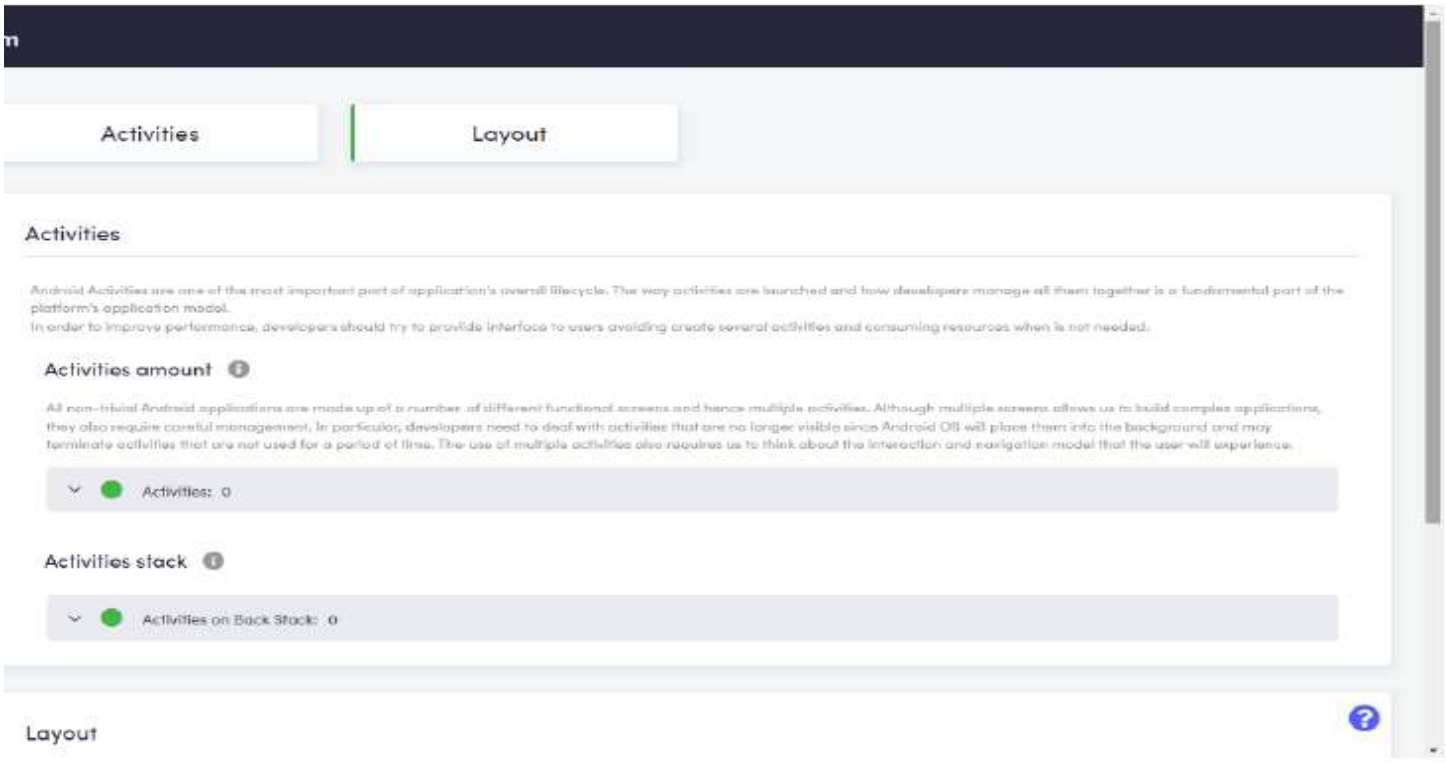
Test Reports Attached Below :- Performance test are tested by using Apptim Software

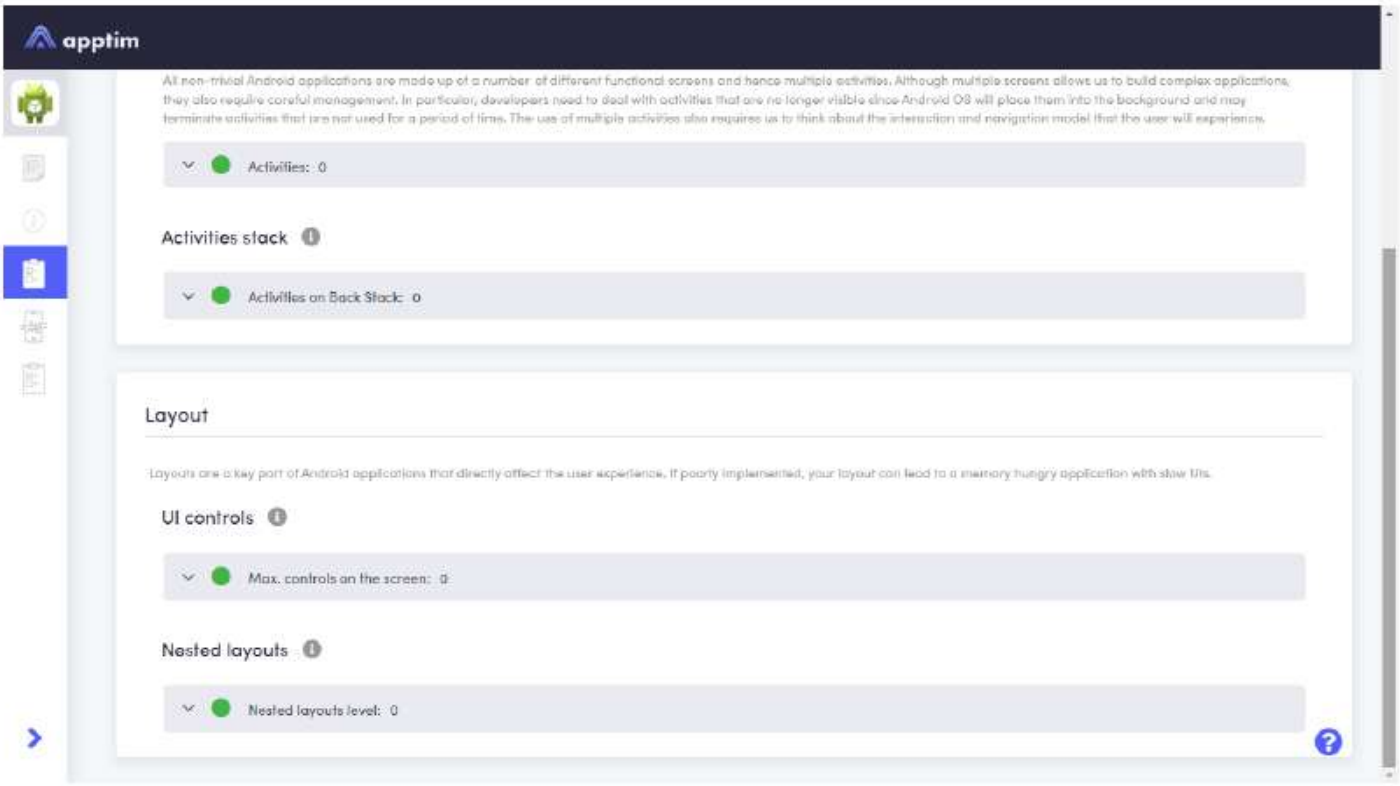
MOBILE 1


apptim
1
Errors/Exceptions
5.7
Avg. FPS
64.2 MB
App Size
230.6 MB
Max Memory Usage
9.0 %
Max. CPU
0.0 ms
Top Startup Time
Video
6s110ms
0:00 / 0:09
Summary
Pass
Moderate
Warning
Skipped
Avg. FPS
App Size
Max Memory Usage
Pass
Skipped
Duration: 10 minutes, 13 seconds
Start Date: Nov 10, 2022 13:30:01
End Date: Nov 10, 2022 13:40:14
Test Session: smart farmer
Device: realme RMX1992 11


apptim
Resources
Select charts mode
Single
Multiple
Click and drag to filter.
Network Download
Memory Total
Threads Count
Render FPS
CPU Usage
Marks
No marks found for this session.
CPU
Memory
Render
Network
Storage


apptim
Test Environment
realme RMX1992
Android version: 11
Manufacturer: realme
Model: RMX1992
CPU Architecture: arm64-v8a
Number of cores: 8
RAM: 5.66GB
App Information
Default Label: SmartFormer
Version Code: 1
Version Name: 1.0.1
Package: com.shandade.smartformer
Launch Activity: host.exp.exponent.MainActivity
Use large heap: false
Debuggable: false
Screen Information
Screen orientation: port
Screen resolution: 1080x2340
Layout size: Normal
Display density: 480dpi (xhdpi)
OpenGL ES: 3.2
App Compatibility
Min API Level: 21
Target API Level: 31
Max API Level: Undefined
Native CPU architectures: No
Screens: small normal large xlarge
Support Any Density: true


Activities
Layout
Activities
Android Activities are one of the most important part of application's overall lifecycle. The way activities are launched and how developers manage all them together is a fundamental part of the platform's application model.
In order to improve performance, developers should try to provide interface to users avoiding create several activities and consuming resources when is not needed.
Activities amount
All non-trivial Android applications are made up of a number of different functional screens and hence multiple activities. Although multiple screens allows us to build complex applications, they also require careful management. In particular, developers need to deal with activities that are no longer visible since Android OS will place them into the background and may terminate activities that are not used for a period of time. The use of multiple activities also requires us to think about the interaction and navigation model that the user will experience.
Activities: 0
Activities stack
Activities on Back Stack: 0
Layout


apptim
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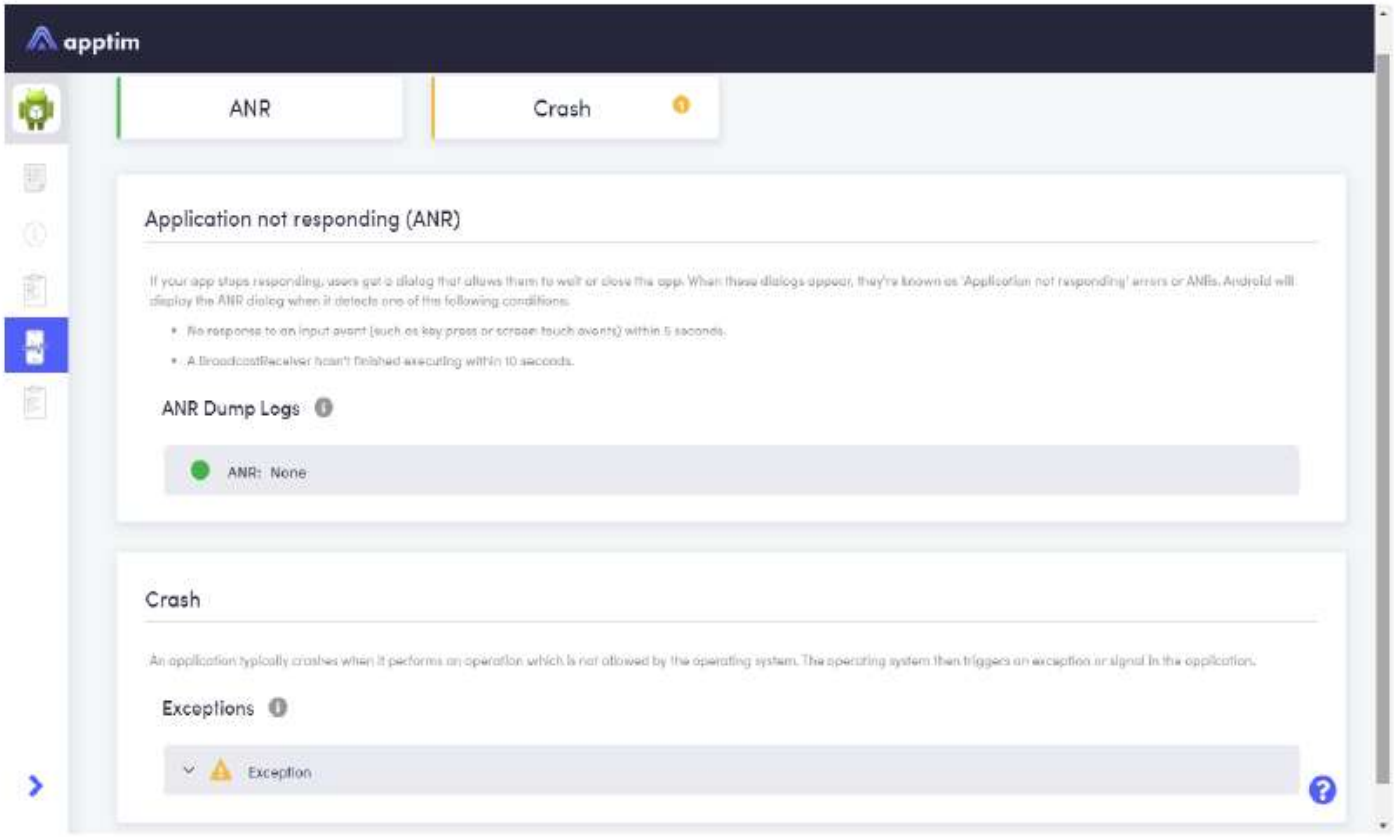
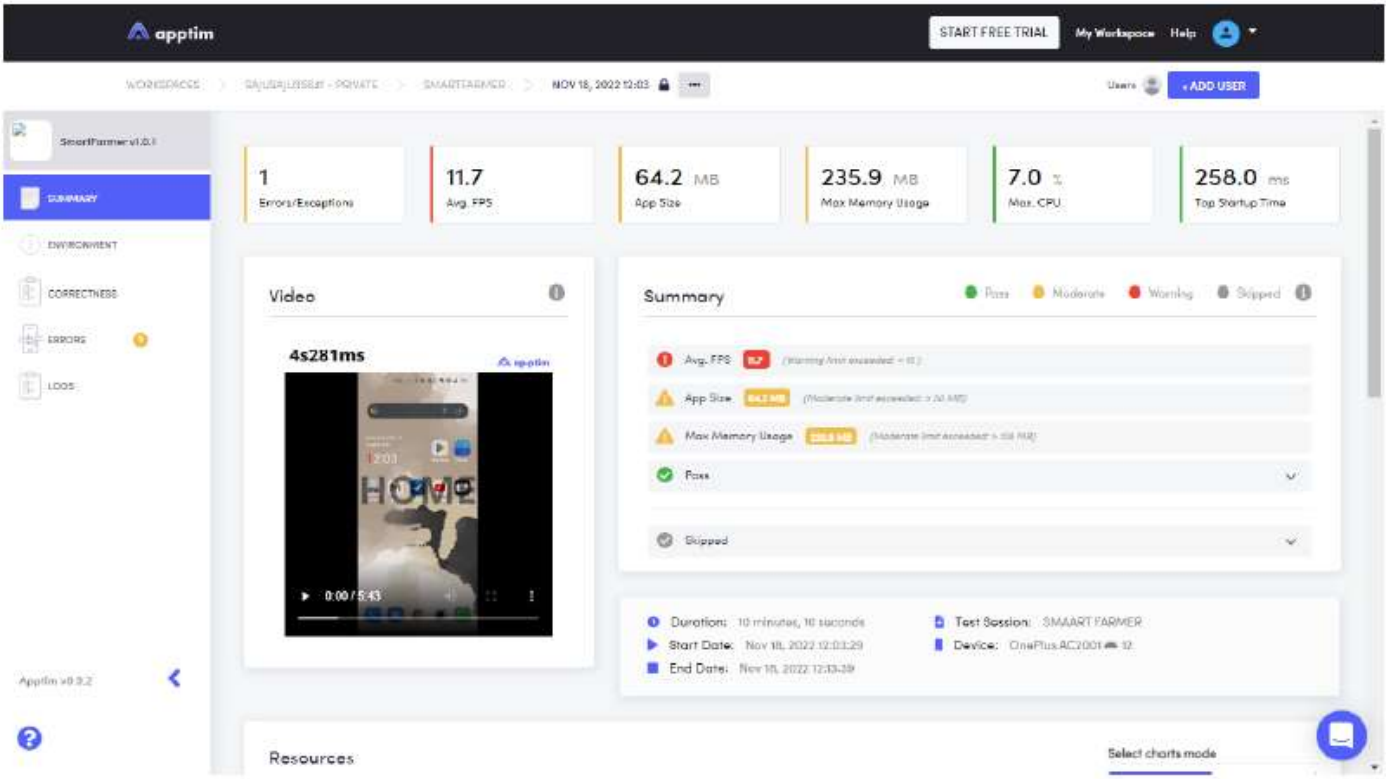
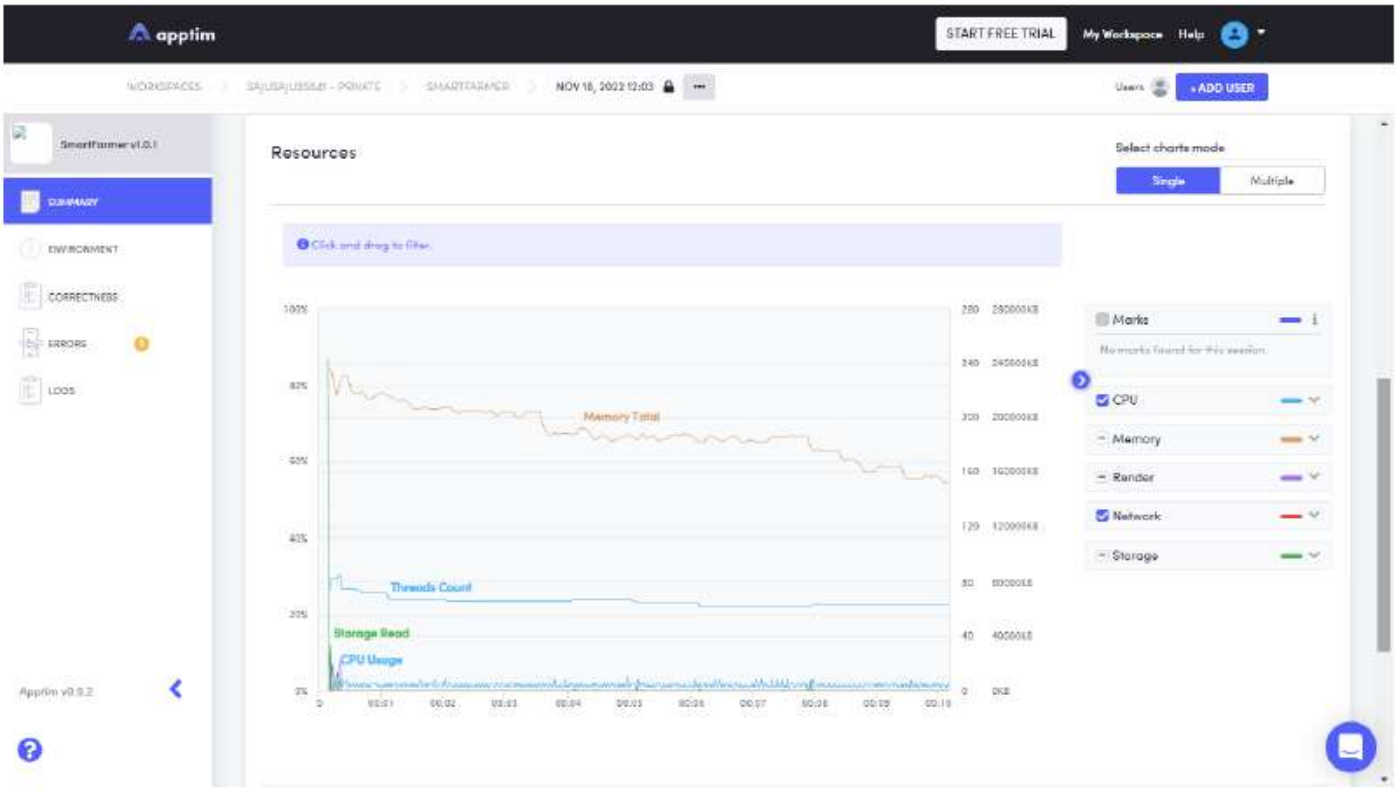
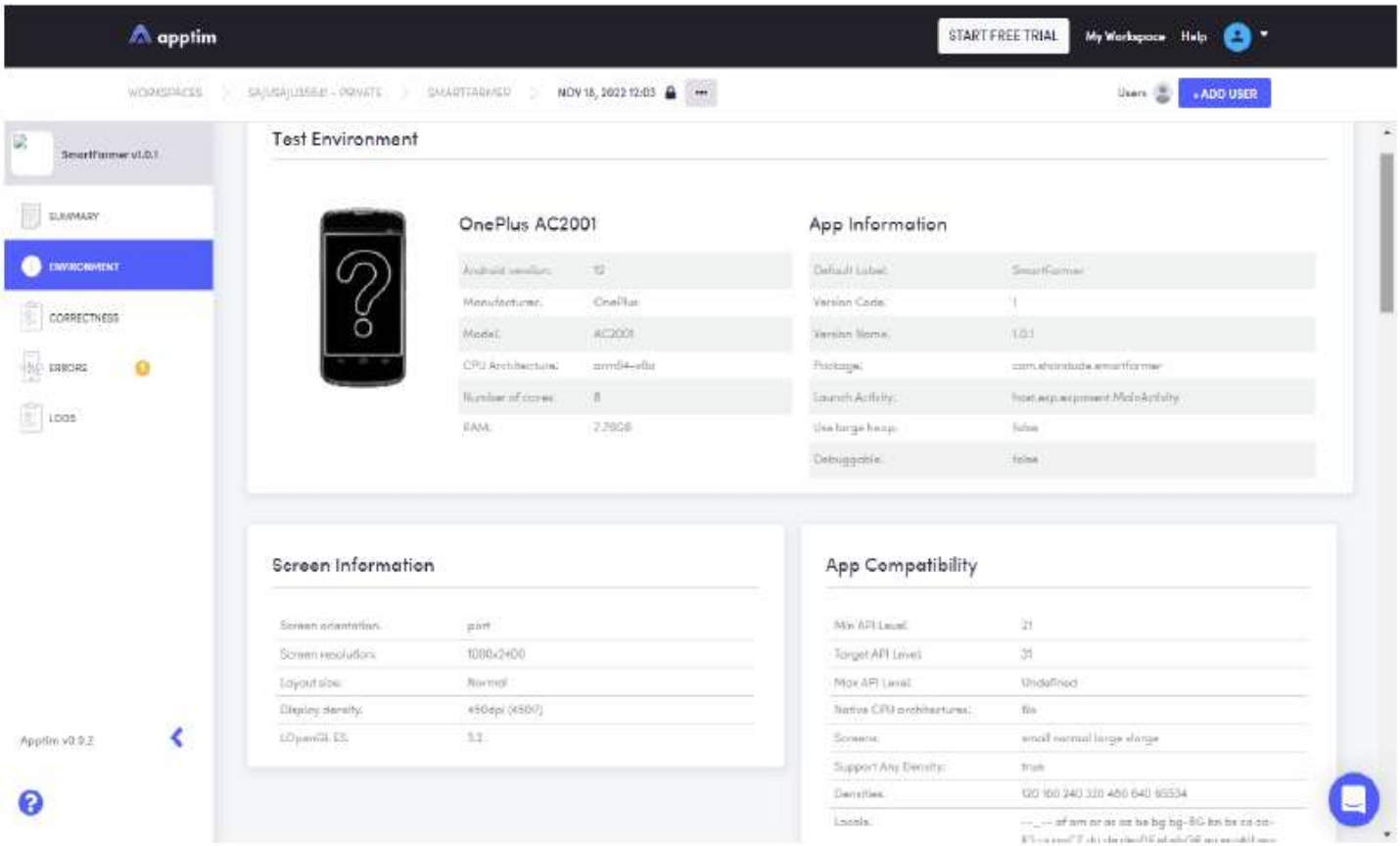
Activities: 0
Activities stack
Activities on Back Stack: 0
Layout
Layouts are a key part of Android applications that directly affect the user experience. If poorly implemented, your layout can lead to a memory hungry application with slow UIs.
UI controls
Max. controls on the screen: 0
Nested layouts
Nested layouts level: 0

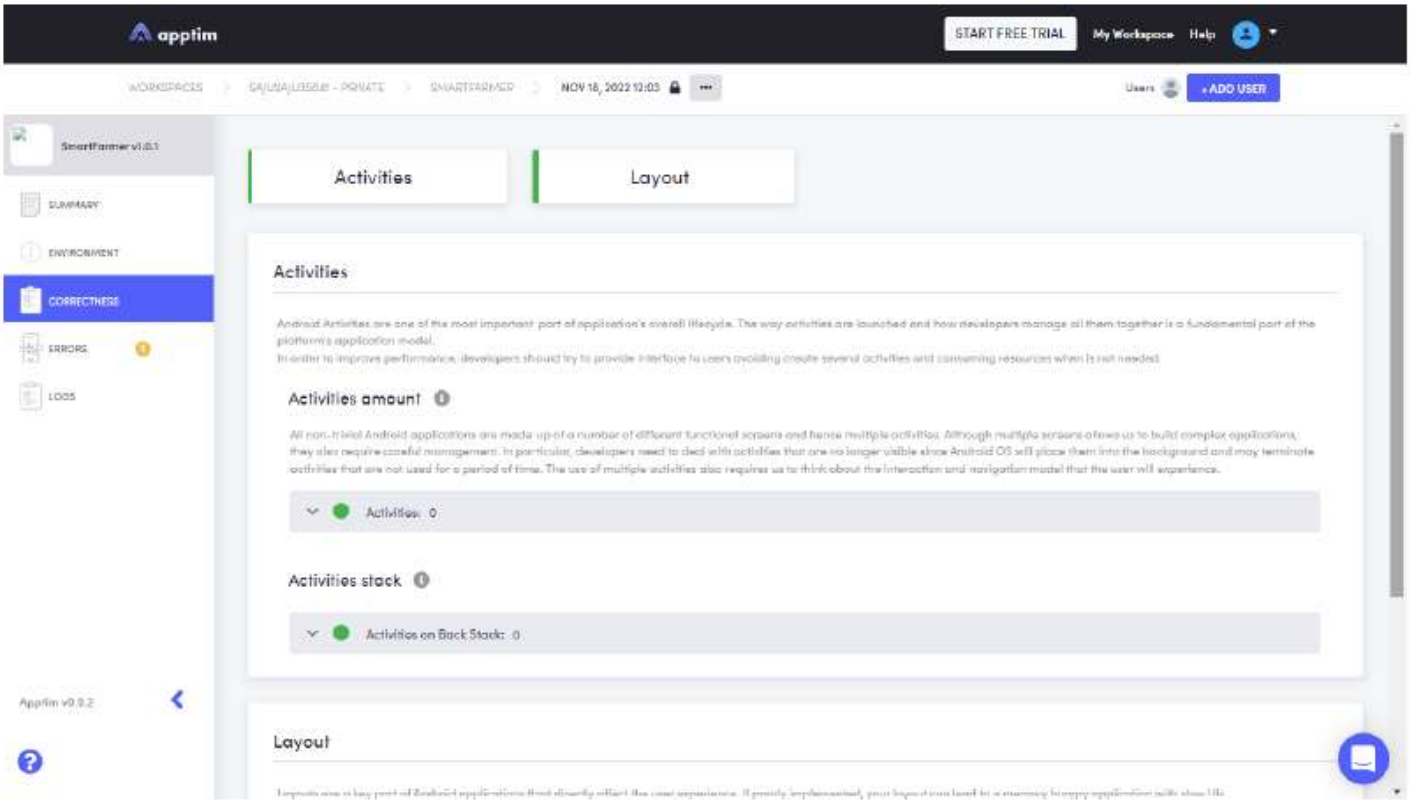

apptim
ANR
Crash
Application not responding (ANR)
If your app stops responding, users get a dialog that allows them to wait or close the app. When these dialogs appear, they're known as 'Application not responding' errors or ANRs. Android will display the ANR dialog when it detects one of the following conditions:
No response to an input event (such as key press or screen touch events) within 5 seconds.
A BroadcastReceiver hasn't finished executing within 10 seconds.
ANR Dump Logs
ANR: None
Crash
An application typically crashes when it performs an operation which is not allowed by the operating system. The operating system then triggers an exception or signal in the application.
Exceptions
Exception

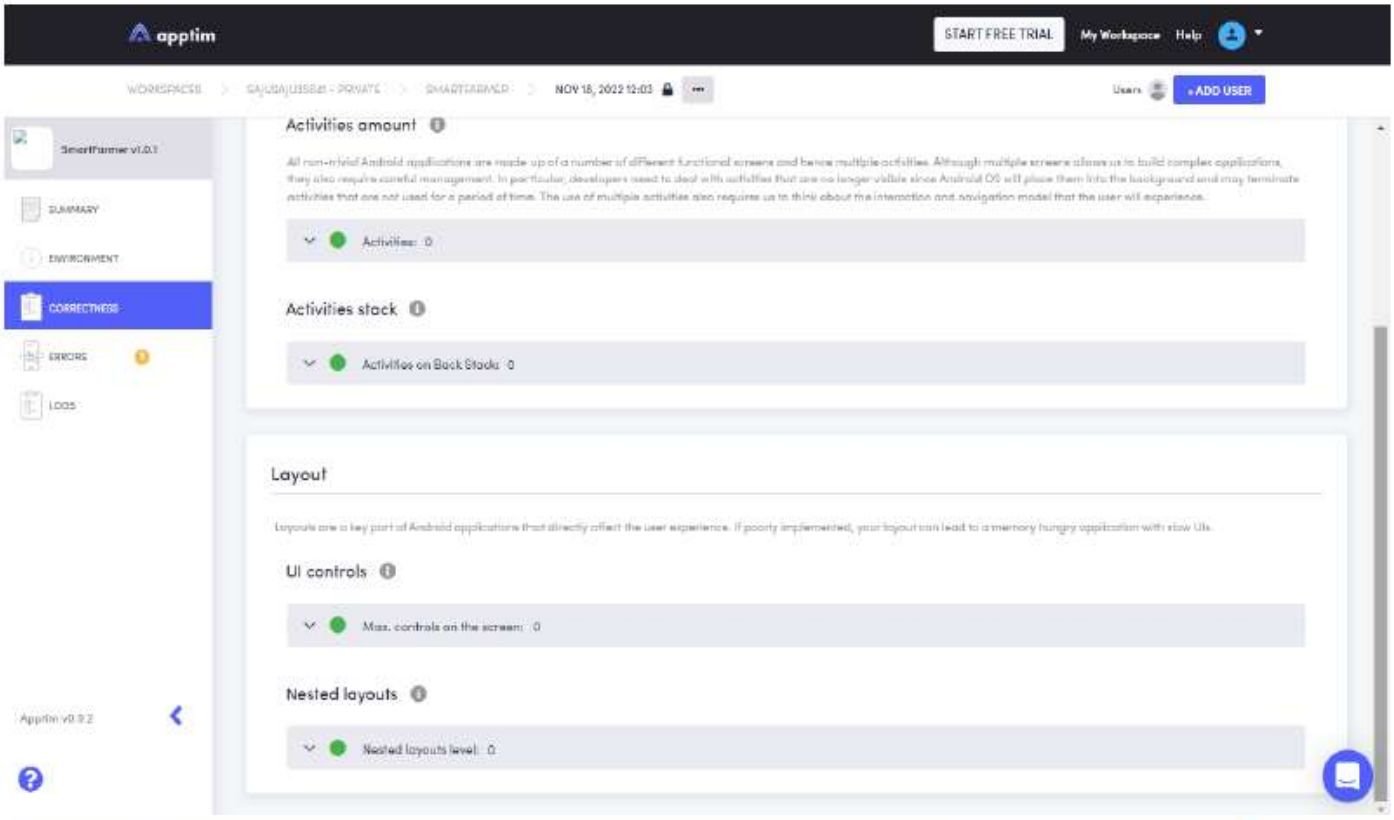
MOBILE 2


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
1
Errors/Exceptions
11.7
Avg. FPS
64.2 MB
App Size
235.9 MB
Max Memory Usage
7.0 %
Max. CPU
258.0 ms
Top Startup Time
Video
4s281ms
Summary
Pass
Moderate
Warning
Skipped
Avg. FPS
App Size
Max Memory Usage
Pass
Skipped
Duration: 10 minutes, 10 seconds
Start Date: Nov 18, 2022 12:03:29
End Date: Nov 18, 2022 12:13:39
Test Session: SMAART FARMER
Device: OnePlus AC2001
Resources
Select charts mode


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Resources
Select charts mode
Single
Multiple
Click and drag to filter
Memory Total
Threads Count
Storage Read
CPU Usage
Marks
No marks found for this session
CPU
Memory
Render
Network
Storage


apptim
START FREE TRIAL
My Workspace
Help
WORKSPACES
NOV 18, 2022 12:03
Users
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Apptim v0.9.2
Test Environment
OnePlus AC2001
App Information
Screen Information
App Compatibility


apptim
START FREE TRIAL
My Workspace
Help
WORKSPACES
NOV 18, 2022 12:03
Users
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Apptim v0.9.2
Activities
Layout
Activities
Activities amount
Activities: 0
Activities stack
Activities on Back Stack: 0
Layout


apptim
START FREE TRIAL
My Workspace
Help
WORKSPACES
NOV 18, 2022 12:03
Users
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Activities amount
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Activities: 0
Activities stack
Activities on Back Stack: 0
Layout
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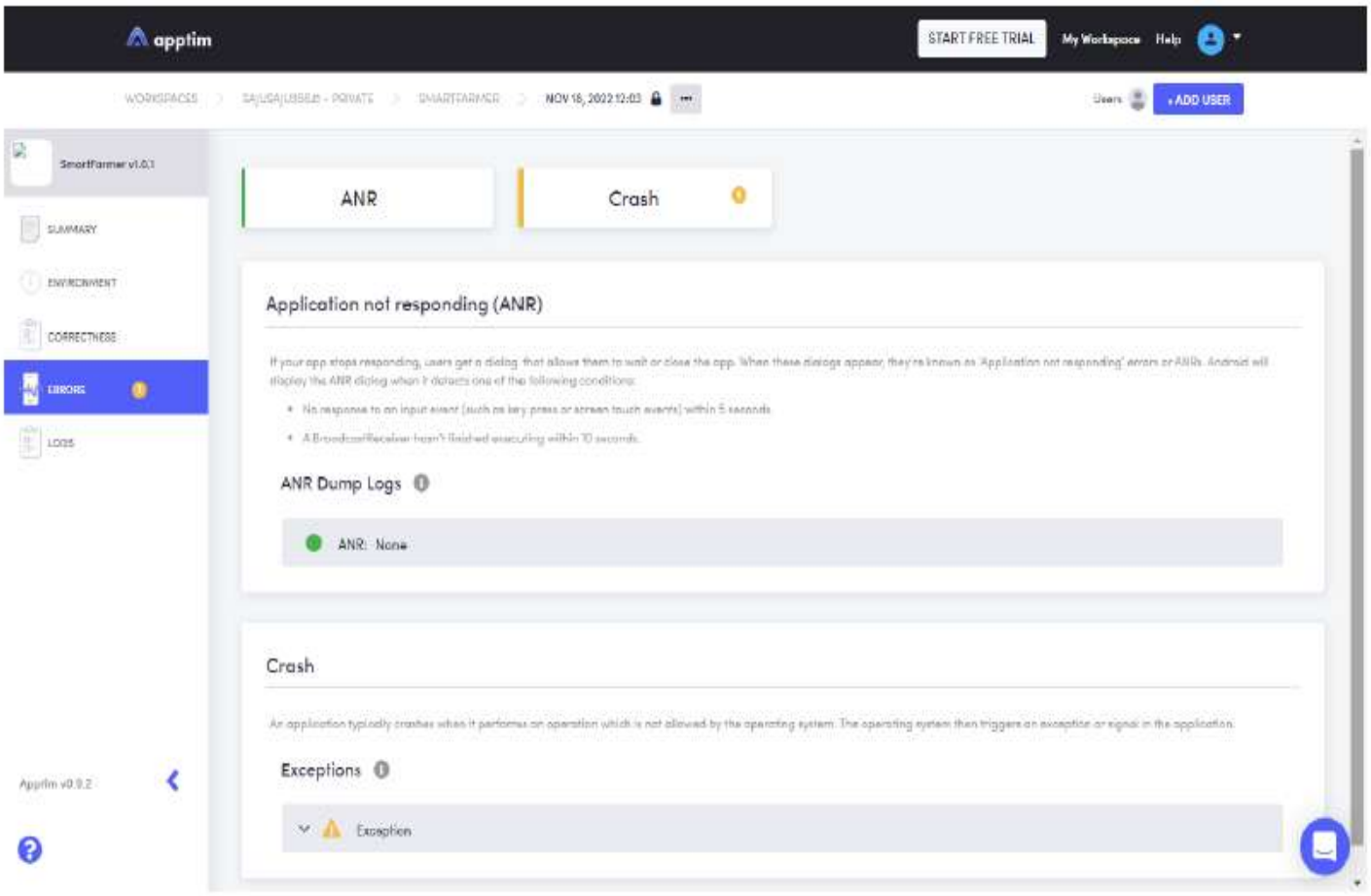
UI controls
Max. controls on the screen: 0
Nested layouts
Nested layouts level: 0
Apptim v0.9.2


apptim
START FREE TRIAL
My Workspace
Help
WORKSPACES
NOV 18, 2022 12:03
Users
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
ANR
Crash
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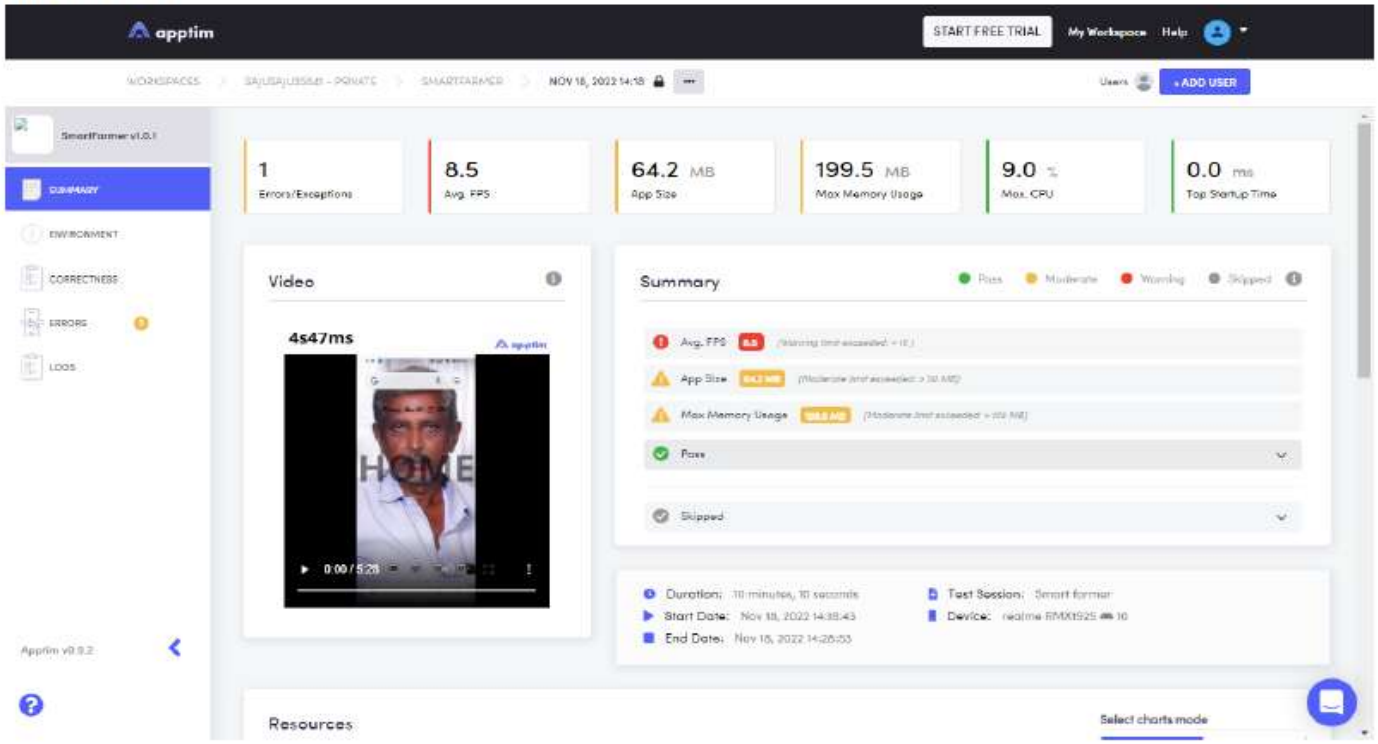
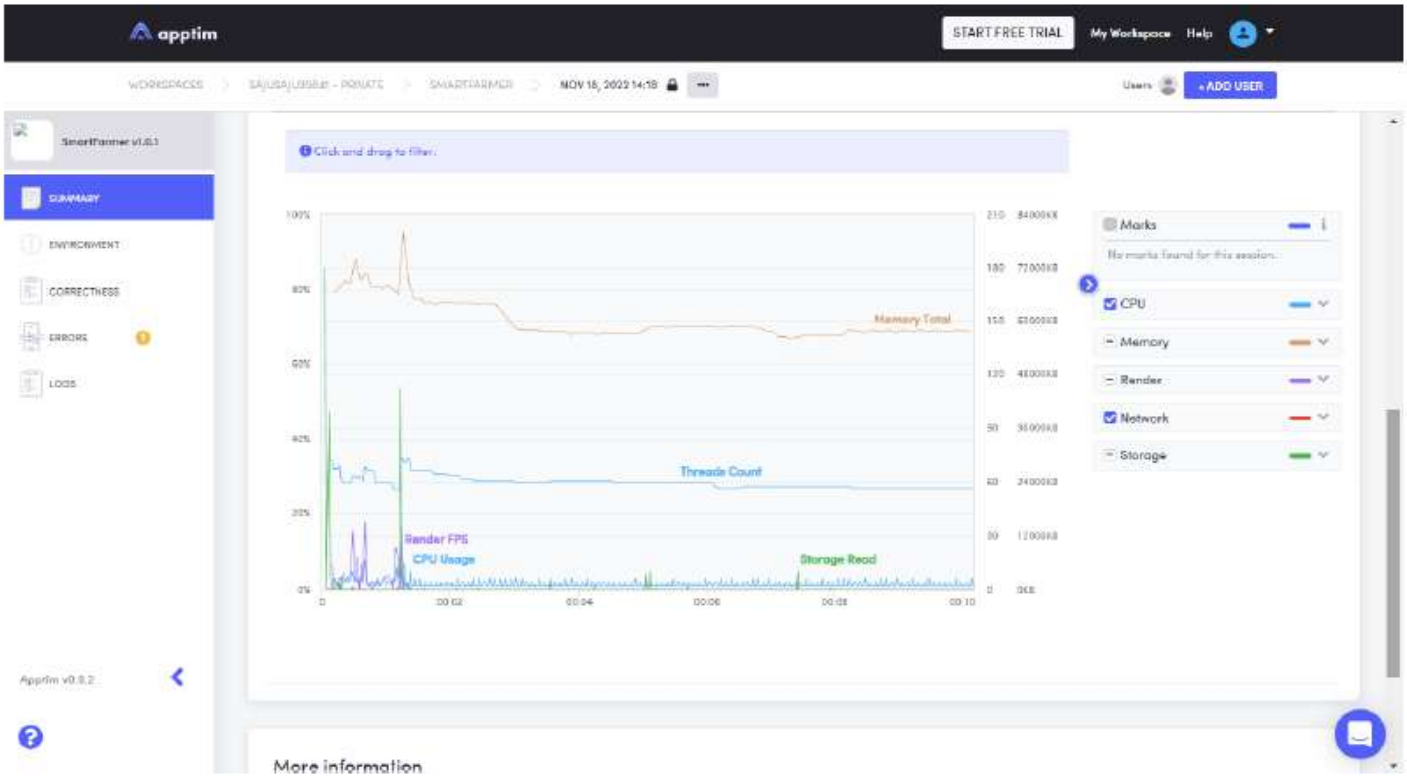
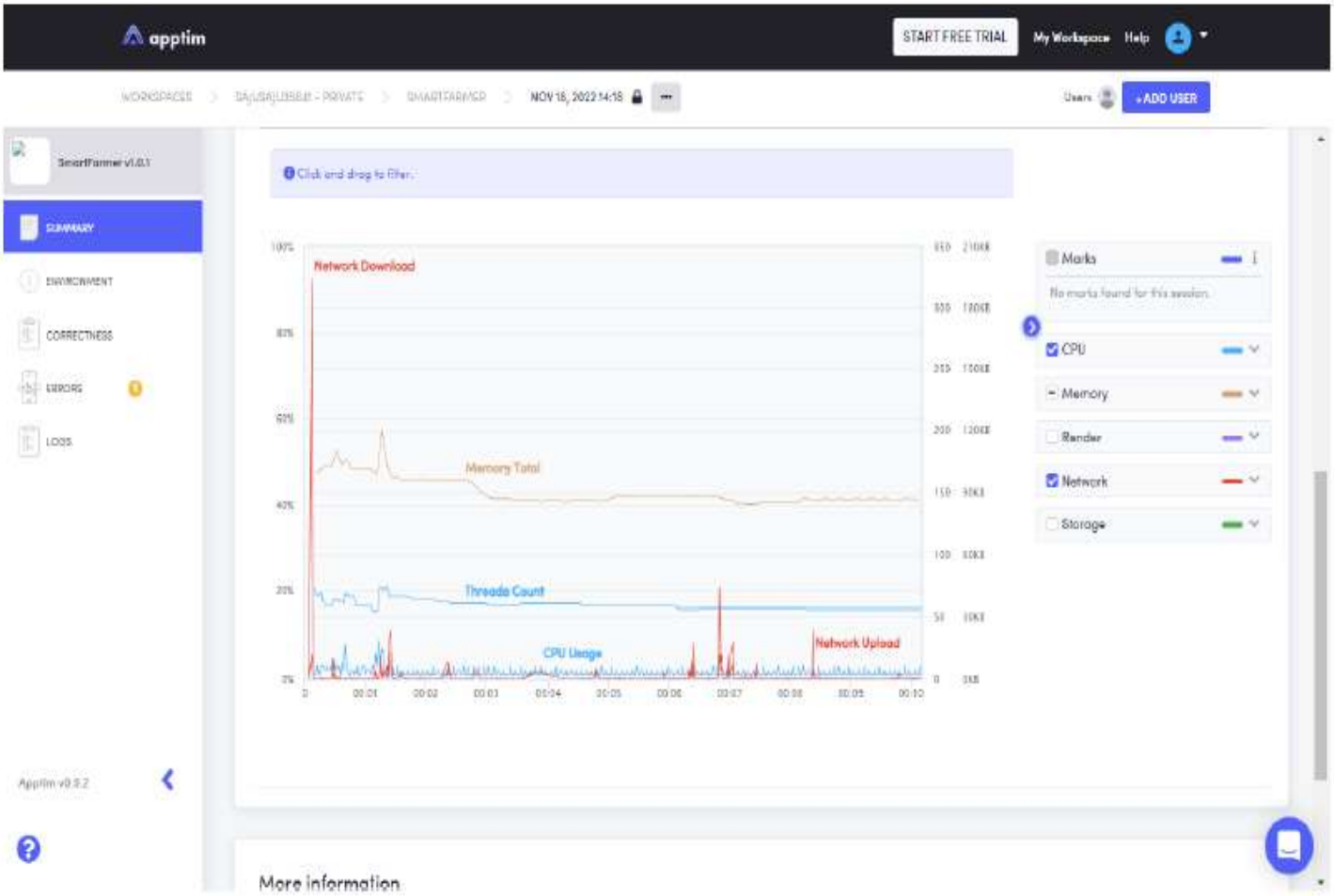
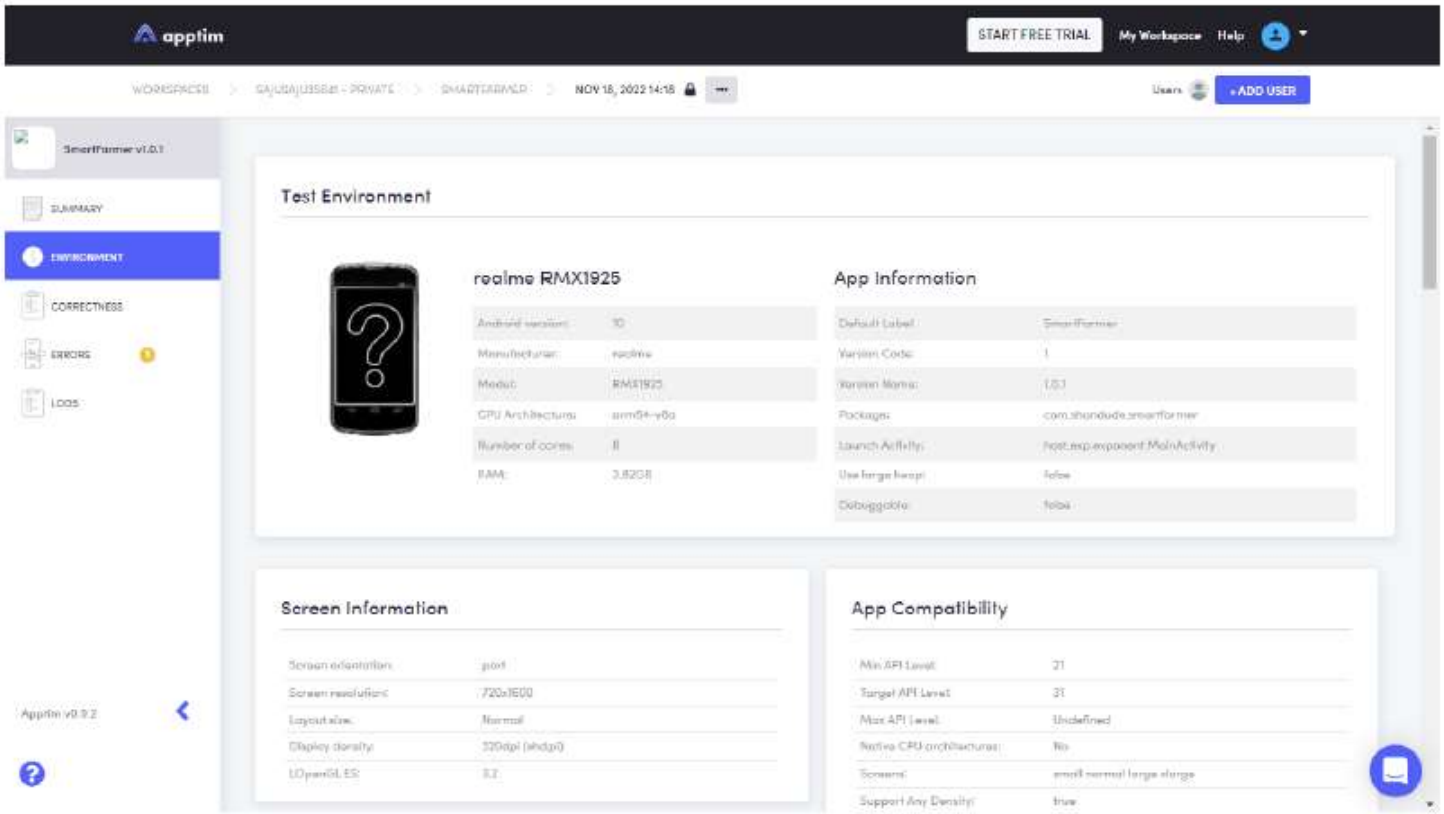
Exceptions
Exception
Apptim v0.9.2

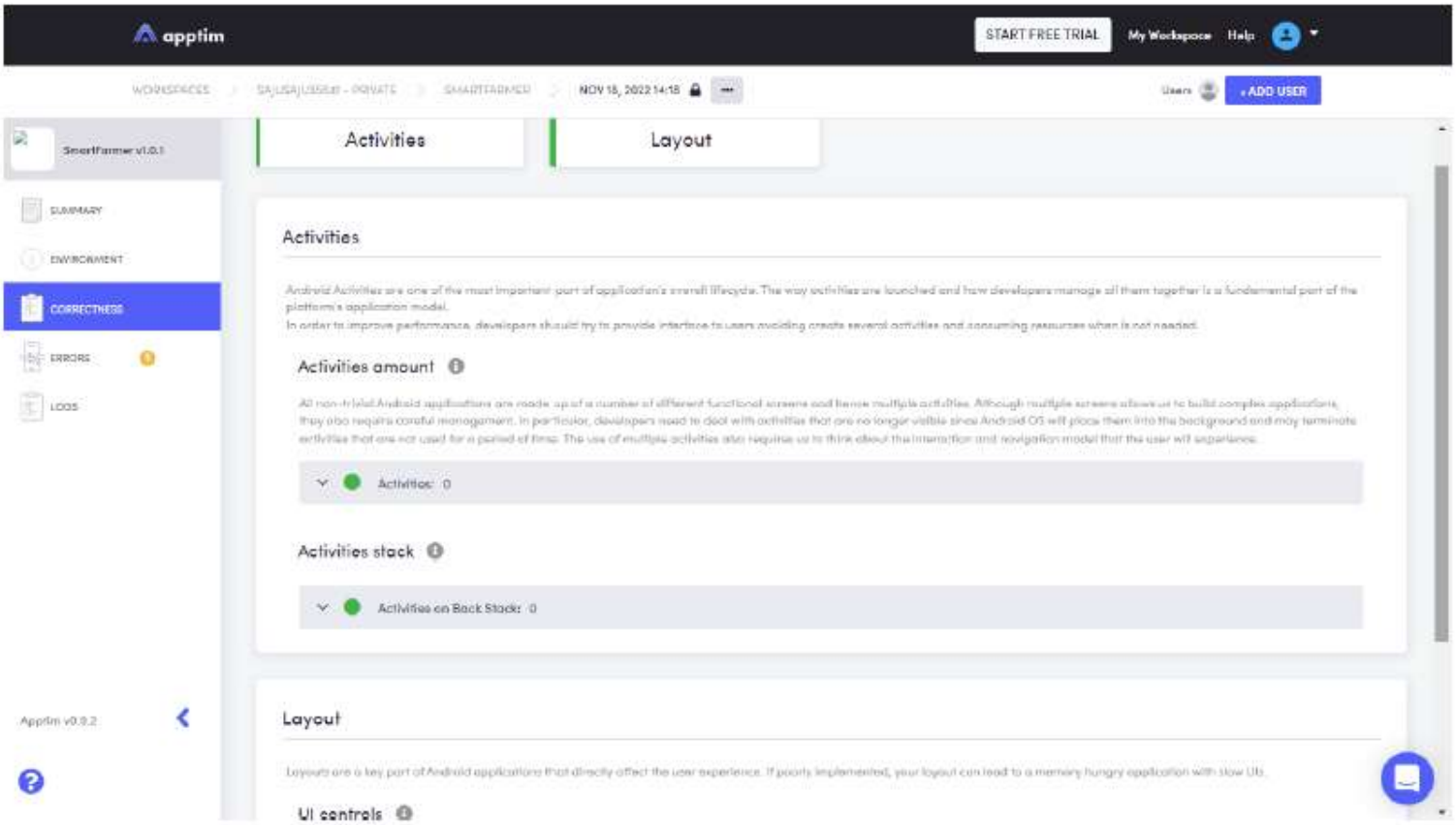
MOBILE 3


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
1
Errors/Exceptions
8.5
Avg. FPS
64.2 MB
App Size
199.5 MB
Max Memory Usage
9.0 %
Max. CPU
0.0 ms
Top Startup Time
Video
4s47ms
Summary
Avg. FPS
App Size
Max Memory Usage
Pass
Skipped
Duration:
Start Date:
End Date:
Test Session:
Device:
Resources
Select charts mode


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Memory Total
Threads Count
Render FPS
CPU Usage
Storage Read
Marks
CPU
Memory
Render
Network
Storage
More information


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Click and drag to filter.
Network Download
Memory Total
Threads Count
CPU Usage
Network Upload
Marks
No marks found for this session.
CPU
Memory
Render
Network
Storage
Apptim v0.9.2
More information


apptim
START FREE TRIAL
My Workspace
Help
+ ADD USER
SmartFarmer v1.0.1
SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Test Environment
realme RMX1925
App Information
Screen Information
App Compatibility
Apptim v0.9.2


apptim
START FREE TRIAL
My Workspace
Help
NOV 18, 2022 14:18
Users
+ ADD USER
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SUMMARY
ENVIRONMENT
CORRECTNESS
ERRORS
LOGS
Activities
Layout
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Activities: 0
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Activities on Back Stack: 0
Apptim v0.9.2
Layout
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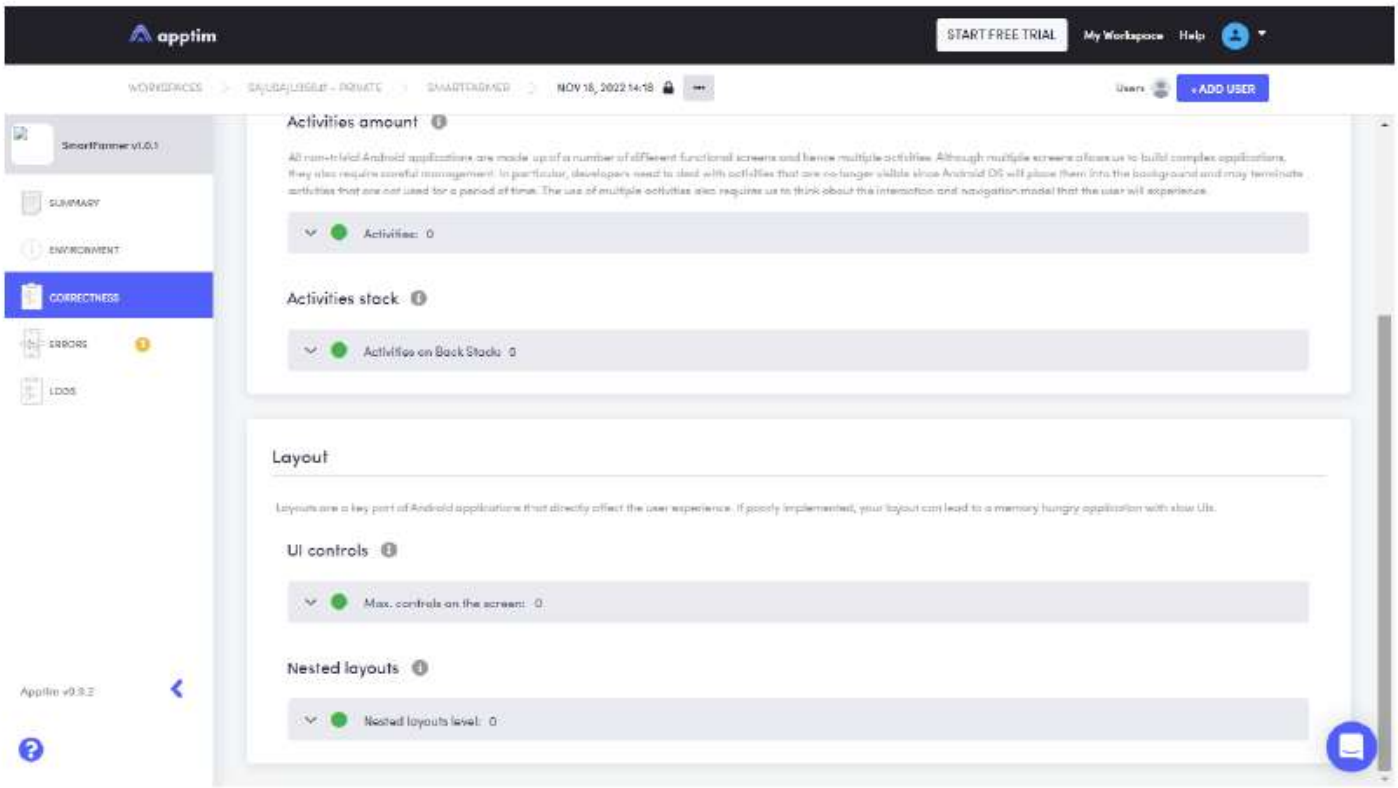
UI controls


apptim
START FREE TRIAL
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NOV 18, 2022 14:18
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