



Game Testing of a Poker game



Client Overview

- Client is a real money technology group, delivering cutting-edge technology solutions. Their portfolio currently includes companies in the Gaming arenas, Software Development, Hospitality and Media & Entertainment
- **Key requirement:** End to End functional validation of their mobile poker game application
- **Testing Types:** Functional Testing, Compatibility Testing, Performance Testing, User Acceptance Testing



Business Requirements

- To provide flawless End user experience
- To ensure full functional validation of the poker game on Android
- To conduct Stand-up meetings on daily basis, bug triage and retrospective meetings after completion of release
- To provide daily status reports and weekly metrics



Our Solutions

- Few players to none around at any given time Exceedingly difficult to get some specific Hands
- No standardized game design document, no database access and zero test cases available
- Validation of the game functionality by choosing the best fit mobile devices Measuring application performance across multiple android devices Ensuring flawless user interaction with the application interface



Deliverables

Daily Status reports, Release retrospective report, Defect reporting Test Case document, Suggestions document to improve the quality of the game application

Daily Status Report

Hi,
Below is the Daily Status Report for the title "XYZ" as on 29th July 2022.

Date: 29th July 2022
Title: XYZ
Build Version: Live (XYZ games)
Platform: Android
Mode: Hold'em
Device: Mobiles
Environment: Live
Team size: 2
Total Issues including observation: 19

Highlights:
Testing has been ended as of today and hope our Team delivered to your expectation. Team performed Game Bench test and below you can performance report has been attached along with this mail. Let me know if you require the complete data of Game Bench session which is approximately 900 MB. Team did manage and played handful games with full table and did not face any issues during the gameplay. Team did not face any hang/crash and title seem very consistent, although there was a session the title suffering from low frame rate issues. Log has been attached in this mail for your reference. Team is working on the live environment of the game mode "Hold'em." Funds have been added to the member's account for testing purpose (XYZ). Team will be working on the mode **Hold'em** until the mode **Omaha** goes live.

Device details:

Device name	OS version	RAM	Root Status
OnePlus 6T	Android 11	6GB	Locked
Redmi Note 11T	Android 12	8GB	Locked
Pixel 5	Android 12	6GB	Locked
Poco F1	Android 12	6 GB	Unlocked
OnePlus 8	Android 12	8Gb	Locked

Test Focus:

- Functionality testing
- End user experience

Game bench Session Details:

Below are the performance test results as executed on Game Bench. The Game Bench tests performed are in addition to services covered in the test scope document.

Summary	Stats
Date recorded	29-07-2022 06:26
Account	abc@indiumsoft.com
App	com.XYZ
App version	2.2.8
Device	POCO F1
OS version	12

FUNCTIONALITY
POINTS

GPU model	Adreno (TM) 630
Seconds played	4882
Median FPS	18
Fps Stability %	8
Fps stability index	9.22
Avg CPU usage %	11.02
Max CPU usage %	48.88124847
Avg memory used MB	620.6779804
Max memory used MB	831
Avg GPU usage	0
Max GPU usage	0
Avg mWatt	1322
Avg mAmp	322
mAh consumed	436
MB downloaded	95.52
MB uploaded	4.08
ID	c8c59610-7363-42eb-9535-d8751d5c6807

2 issues were reported today.

Issue ID	Summary
1	[iXiE][Audio] There is no SFX played for Check/Fold during the player's turn when selecting Check/Fold option.
2	[iXiE][Audio] There is a delay when toggled with the Auto Post BB option.

Observations:

Positive:

- Title seems very consistent, and no serious issues related to the performance of the title.
- Creating Parallel games is a good feature of the game.
- Managed more games with real players and did not face any issues during the session.

Negative:

- No restriction on the Parallel Games feature and players can create multiple sessions of games.
- The games started to feel sluggish and were suffering from low frame rate when playing Parallel games for more than 30 mins.

Next Shift:

Team will continue to work on the current task until further instructions are received.

Sample Poker Estimation Sheet

Team allocation, Familiarization and Test Setup			1-2 weeks
			Hours
1	Installation and update checks		1
2	Functionality Testing (Which covers all below mentioned components)		
2.1	Title Screen	Splash screen/Title screen/Loading screen	3
		Play As Guest	
		Register Now	
		Already a user? Login	
		Google Login	
		FaceBook Login	
		Register Bonus	
2.2	Main Menu and Game Modes	Cash	80
		Tournaments	
		OFC	
		Sit & Go	
		Spin & Go	
		Quick Seat - Cash and Sit & Go	
		Favorites - Cash and Sit & Go	
		Real Money	
		Play Money	
2.3	Profile	My Account	5
		Banking	
		Promotions & Rewards	
		My Poker	
		Refer & Earn	
		24x7 Help & Support	
		About Us	
		Logout	
2.4	Add Cash & Payment Method	Fast Cash	20
		Choose Bonus	
		Credit / Debit Cards	
		Net Banking	
		UPI	
		eWallet	
		Payment GateWay checks	
		Negative test cases	
		Interrupt testing	
		Network Testing	
2.5	Cash Withdraw		N/A
2.6	WD Flowback		N/A

GamePlay	Table and Seat	20
	Profile icon for players	
	Card distribution	
	Fold, Call, Raise, Bet, Sit in, Auto Post BB	
	Win, lose, exit table flow	
	Menu - Sit out all tables, Auto check, Sit out next hand, Sit out next BB	
	Hamburger Menu - Game info, Settings, Game history, Report a bug, Leave table	
	Player cash - Winning cash, pending cash	
	Total Pot Cash	
Animation and Visual Effects		4
Follow Us On	About Us	2
	Tournaments	
	Testimonials	
	Responsible Gaming	
	FAQ's	
	Mobile	
	Poker Rules	
	Winners	
	How to Play poker	
	Promotions	
	Legality	
	Support	
	Blogs	
Partners & Business Development		
UI Check		5
Interrupts, Network Throttling		5
Compatability Testing	Considering 5 devices on Android	5
Bug Reporting and Regression(Taking Screenshot/Logs/Video/cross verifying on other devices&OS)		10
	Total Hours	160
	Lead Hours	40
	Total Estimated Hours	200
	Team Size	5 (1 Lead + 4 testers)

In-game



Our Solutions

- Implemented process, templates and guidelines for functional testing
- Created Check-lists to ensure the game functionality (**Payouts, Betting, Buy-in, Hand strength, Table and player preference, join table, hand strength, Parallel play, Menu, Game finances etc.**)
- Tested and fixed the game mechanics issues, asset integrity and checked the stability pitfalls
- Performed Compatibility test to check if the game app could be installed on 5 devices and then ensured game consistency with the supported devices
- Performed GUI testing to check the parts of user interface & graphics: menu structure, colors & backgrounds, screen resolution, font size, animations etc.
- Major defects have been fixed and retested as part of UAT Conducted benchmark testing using the Game Bench tool.



Business Impact/Benefits delivered

- Exceeded client's expectation in delivering more than what they asked for (Performance, Compatibility testing). Team received positive feedback on the quality of work delivered.
- Developed a regression testing scenario of 66 critical test cases that reduced the testing time and helped test the app swiftly and seamlessly.
- Implemented QA best practices for an improved visibility into the quality of the game application and testing
- Assessed and provided information regarding areas of improvement of the game application
- Ensured complete functionality testing on the game play and improved the end user experience of the game application.
- Team found few good issues which are marked as major and requires fixing



Tools/Technology

- Microsoft Excel, Game Bench



USA

Cupertino | Princeton
Toll-free: +1-888-207-5969

INDIA

Chennai | Bengaluru | Mumbai | Hyderabad
Toll-free: 1800-123-1191

SINGAPORE

Singapore
Ph: +65 6812 7888

UK

London
Ph: +44 1420 300014