

NFT testing for India's largest eSports and mobile gaming platform



Client Overview

- Client is India's largest eSports and mobile gaming platform that offers 60+ games in categories such as fantasy sports, card games, arcade games, puzzle games, action games etc.
- **Key requirement:** End to End functional validation of their multiple games
- **Testing Types:** Functional Testing, Compatibility testing, Integration testing, Network testing, Performance testing



Business Requirements

- To perform functional testing of the fantasy and crafting features of the game
- To develop and execute test cases as per the functionality in scope
- To perform compatibility testing to ensure stability of the application's performance across wide range of devices
- To conduct Stand-up meetings daily, bug triage, and release retrospective meetings
- To perform stability checks on various Internet bandwidth.
- To perform performance testing using Game Bench to monitor hardware and network usage



Key Challenges

- Checking statistics for every minted card of Players
- Ensuring the top three points securing users of the match get rewarded
- Getting high rarity cards from the minted card packs
- No alteration and deletion of NFTs once created
- Maintaining the NFTs



Deliverables

Daily Status reports, Release retrospective report, Defect reporting



Our Solutions

- Performed functional testing to make sure the fantasy and crafting features of the game are working fine as per the requirements
- Authored and executed more than **3000+ test cases per release** which included edge case scenarios and negative test case scenarios related to integration points and functionalities
- Performed compatibility test on a wide range of devices and then ensured game consistency with the supported devices
- Performed integration testing that helped detect errors arising from interactions between different components of the game
- Performed performance testing by using GameBench to monitor the game FPS stability, GPU, CPU and network usage
- Performed network stability testing by throttling the network bandwidth to ensure the game stability
- Covered Release cycle testing and feature testing along with sanity tickets and bug regressions
- Maintained proactive communication throughout the engagement to attain highest customer satisfaction



Engagement

Project duration – Sept 2021 – Mar 2022

Team Size – 8 per project



Business Impact/Benefits delivered

- Achieved 100% requirements coverage for all feature updates
- Provided cost-effective solution and improved quality of the application
- 30% faster time to market leveraging iXie's proven test methodology
- Performed compatibility testing on a wide range of devices which led to significant device cost savings and helped maintain rich user experience
- Delivered a detailed performance report of the Game with the help of the Game Bench tool.
- Provided Feedback after end-to-end testing which improved game quality, user experience and this in turn increased market value
- Delivered promised performance with excellent additional requirements for Quality and User experience.



Tools/Technology

- Jira, Test Rail, Test Flight, Figma, GameBench



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