

CREATIVITY, PROBLEM SOLVING AND INNOVATION (CPI)

Project report submitted to



by

SHALINI V MAURYA – 215891092

KARTHIK SRI – 215891110

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Under the supervision of

Dr. GOWTHAM N

Assistant Professor

Department of Electrical and Electronics

Engineering

Manipal Institute of Technology

Bengaluru

Manipal Institute of Technology

Bengaluru Campus-560064, Karnataka, India.

Certificate

This is to certify that the **CPI Project report** entitled “**Challenges with OnePlus Phone Updates**” submitted by **Shalini V Maurya(Registration No: 215891092)** and **Karthik Sri (Registration No: 215891110)** as the record of the CPI project work carried out by them, is accepted as the CPI Project report submission in partial fulfilment of the requirements for the award of degree of Bachelor of Technology (BTech).

Examiners Name

Signature with the Date

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ABSTRACT

This study explores the latest One Plus phone upgrade, emphasizing the growing significance of green lines. It looks at the update's inventive features, the issues it raised, and the creative fixes put out to address them. This article intends to provide insights into the dynamics of software upgrades in the smartphone industry and the techniques used to solve unforeseen issues through an analysis of user experiences, technical aspects, and industry responses. This case study explores the recent software update of One Plus phones, focusing on the unexpected emergence of green lines on device screens. Despite the promise of innovation, the update introduced unforeseen challenges, prompting a thorough investigation into its underlying causes. Through an in-depth analysis of user experiences, technical aspects, and industry responses, the study highlights the intricate interplay between hardware and software in the smartphone industry. One Plus swiftly mobilized its technical teams and community resources to address the issue, implementing a multi-faceted approach that included rigorous diagnostics, customer support initiatives, and community engagement efforts.

The brand rolled out a series of software updates to mitigate the green line issue and prevent similar occurrences in the future. Beyond technical considerations, the incident prompted reflections on the delicate balance between innovation and stability, emphasizing the importance of effective communication and community engagement in navigating unforeseen challenges.

In conclusion, the investigation underscores the significance of adaptability, resilience, and user-centricity in addressing the evolving dynamics of smartphone technology.

INTRODUCTION

In the ever-evolving landscape of the smartphone industry, software updates serve as catalysts for innovation and progress, promising enhanced functionalities and improved user experiences. However, alongside these advancements, updates can also bring unforeseen challenges that disrupt the seamless operation of devices. One such instance arose with the recent update of One Plus phones, where users encountered the unexpected emergence of green lines on their device screens.

Renowned for its commitment to innovation, One Plus embarked on a highly anticipated update, poised to introduce exciting new features and optimizations to its user base. Yet, shortly after the update's deployment, reports began surfacing of green lines marring the visual display of devices. This phenomenon not only raised concerns among users but also prompted a comprehensive investigation into its underlying causes.

At the core of this issue lies the intricate interplay between hardware and software, a dynamic relationship where even minor adjustments can have significant ramifications. Initial assessments pointed towards a software glitch as the likely culprit, yet further analysis revealed a more complex scenario. The emergence of green lines was found to be a consequence of the interaction between the updated software algorithms and the device's hardware components, highlighting the inherent challenges of software updates in the smartphone industry.

In response to the mounting reports, One Plus mobilized its technical teams to address the issue promptly. A multi-faceted approach was adopted, combining rigorous diagnostics, customer support initiatives, and community engagement efforts. Technical experts conducted extensive testing and analysis to pinpoint the root cause, while

customer support channels provided timely assistance and reassurance to affected users.

Simultaneously, the One Plus community emerged as a crucial resource, fostering collaboration and problem-solving among users. Through shared experiences, troubleshooting tips, and temporary fixes, the community not only alleviated immediate concerns but also empowered users to actively participate in the resolution process.

In the subsequent sections of this research paper, we delve deeper into the dynamics of the recent One Plus phone update, examining the creative aspects, the challenges introduced, and the innovative solutions proposed to mitigate the issue of green lines. Through an in-depth analysis of user experiences, technical intricacies, and industry responses, we aim to unravel the complexities of software updates in the smartphone industry and the strategies employed to address unforeseen hurdles. Ultimately, this investigation offers valuable insights into the evolving landscape of smartphone technology and the importance of adaptability, resilience, and user-centricity in navigating its complexities.

CREATIVE ASPECTS

The creative aspects of the update included several key areas aimed at improving the overall user experience and functionality of One Plus phones.

1. Camera improvements: The update brought innovative features and optimizations to the device's camera system, promising better image quality, improved low-light performance and improved shooting modes. These improvements have been designed to meet the growing demands of users for high-quality photo and video capabilities in smartphones.

2. System Performance Optimization: In response to user feedback and industry trends, the update focused on optimizing system performance to ensure smoother operation and faster response times. This included improvements to application launch speed, multitasking capabilities, and overall system stability, improving the usability and responsiveness of the device.

3. User Interface Refinements: The update brought subtle but effective changes to the user interface of the device that improved its design, appearance, and usability. These improvements aim to make navigation easier, improve visual aesthetics and provide a more intuitive user experience, reflecting One Plus's commitment to user-centric design principles.

4. Feature Expansion: The update builds on the existing set of features and introduced new features and functions that further enrich the user experience. It included improvements such as enhanced security features, productivity tools, and configuration options that allow users to customize their devices according to their preferences and needs.

5. Integrating cutting-edge technologies: Utilizing technological advancements, the update integrates cutting-edge features and functions to stay ahead of the curve. It included innovations such as AI-powered enhancements, augmented reality (AR) capabilities, and seamless integration with IoT devices, demonstrating One Plus's commitment to pushing the boundaries of smartphone innovation.

Overall, the creative aspects of the update mirrored the One. Plus's commitment to providing users with major improvements and innovations.

From camera improvements to system optimization and feature expansion, the update aimed to improve the smartphone experience and underlined the brand's commitment to excellence in product development. Although the initial feedback was positive, unexpected challenges such as the appearance of green lines highlighted the complexity of software updates in the smart industry and the need to respond quickly and efficiently to unexpected problems.

IDENTIFICATION OF PROBLEMS

The problem was identified mainly from user reports and technical analysis after the update. Despite the initial positive reception, the appearance of green lines on the phone's screen became a common problem, significantly affecting usability and user satisfaction. The main aspects of problem identification are:

1. User reports: Users started reporting green lines appearing on the device's screen shortly after the update was released. These reports were widespread and expressed concern about the disruptive nature of the issue, as it affected the device's visual display and could impede user interaction and user experience.

2. Technical analysis: Technical teams performed in-depth diagnosis and analysis to identify the root causes of the problem. Initial assessments suggested a software issue as a possible culprit due to the timing of the issue after the update. However, further research revealed a more nuanced picture, suggesting an interaction between the updated software algorithms and the device's hardware components.

3. Possible reasons: The problem was caused by several possible causes, including software issues, hardware compatibility issues, and conflicts caused by the application of the update. The complexity of the problem highlighted the challenges of software updates in the smartphone industry, where even small changes can have a major impact on the device's performance.

4. Reports to follow: Despite initial investigations, reports of the issue continued to surface, indicating the ongoing nature of the issue and its widespread impact on users. This highlighted the importance of addressing user dissatisfaction and urgently remediating affected

devices.

Finally, problem identification was guided by user reports, technical analysis, and ongoing monitoring of problem prevalence and impact. This highlighted the need to respond quickly and comprehensively to address user concerns and restore device functionality. It highlighted the challenges of dealing with unexpected problems arising from software updates in the smartphone industry.

WHY THE UPDATE ?

The appearance of the Green Line update on One Plus phones is due to several factors, including software development processes, device compatibility issues and the complexity of modern smartphone technology.

1. Software Development Processes: One Plus, like many smartphone manufacturers, regularly publishes software updates to improve a device, introduce new features and fix defects or security holes.

However, developing and testing software updates are complex processes involving many variables and possible interactions between different components of a device's operating system. Despite rigorous testing procedures, unexpected problems can sometimes occur when updates are installed on multiple devices under different usage scenarios.

2. Device compatibility issues: The green lines issue can also be caused by compatibility issues between the software update and certain hardware devices. settings on some One Plus devices. Smartphones have several components, such as display panels, processors, and memory modules, each of which must work smoothly for optimal performance. Changes made in software updates can inadvertently reveal underlying hardware problems or trigger unexpected behaviour in certain hardware settings, leading to issues like green lines on the screen.

3. The complexity of modern smartphone technology: Modern smartphones are complex devices with advanced technology and

features, including high-resolution displays, sophisticated graphics processing units (GPUs), and complex software algorithms. As smartphones become more powerful and versatile, their hardware and software architectures become more complex, making it difficult to anticipate and solve all possible problems that may arise during the development and deployment of software updates.

In conclusion, the green lines updating the One Plus phone was probably due to a number of factors , which addressed software development processes, hardware compatibility issues, and the complexities of a modern smartphone.

While software updates are necessary to maintain device functionality and security, they can also present unexpected challenges that require quick attention and innovative solutions.

CHALLENGES FACED

The challenges of solving the Green Lines problem were multifaceted and required careful navigation:

1. Difficulty in diagnosis: Identifying the root cause of the green line problem has proven difficult due to the complex interaction of software algorithms and hardware components. The complexity of modern smartphone systems has made it difficult to pinpoint the exact source of the problem, requiring extensive diagnosis and analysis.

2. Speed and accuracy of balancing: solving the problem quickly met the need for careful testing and validation. Quick fixes can make a problem worse or introduce new problems, highlighting the delicate balance of speed and accuracy when solving software problems.

3. Manage customer expectations: As the issue of green lines became more reported, it became increasingly difficult to manage customer expectations.

Users have come to expect timely solutions and transparent communication from One Plus, which puts pressure on the company to provide effective solutions while maintaining user satisfaction.

4. Brand image preservation: The green lines issue posed a serious threat to One Plus's brand image, as it highlighted potential flaws in the company's software development and quality assurance processes. Maintaining trust and credibility in the midst of a crisis required transparent communication, active engagement with users, and a commitment to address the problem quickly and comprehensively.

5. Technical Complexity: The technical complexity of modern smartphone systems has presented additional challenges to solving the green line problem. Coordination between software engineers,

hardware experts and third-party developers required effective collaboration and communication to ensure a holistic approach to problem solving.

Overall, the challenges of solving the green line problem highlighted the complexity of mobile software updates. to the industry. Addressing these challenges required a combination of technical expertise, effective communication, and proactive engagement with users to deliver timely and effective solutions while protecting brand image and user satisfaction.

INNOVATIVE SOLUTIONS

The innovative solutions implemented by One Plus to solve the green line problem included joint efforts within the community, temporary fixes and help from third-party developers. The most important aspects of innovative solutions are:

1. Community Collaboration: One Plus has fostered collaboration within its user community by encouraging users to share their experiences, knowledge, and solutions to the green line problem. This basic initiative allowed users to support each other and provided a sense of solidarity in the midst of difficulties.

2. Workarounds and workarounds: While engineers worked to identify the root cause of the problem, users came up with workarounds and workarounds to mitigate the effect of the green lines problem on the usability of the device. These solutions ranged from adjusting display settings to installing third-party applications designed to mitigate visual anomalies and provide immediate relief to affected users.

3. Help from Third Party Developers: One Plus enlisted the help of third party developers using their knowledge and expertise to diagnose and resolve the green line issue. Collaboration between One Plus engineers and third-party developers helped identify potential solutions and improvements to address the root

4. Continuous Improvement: Throughout the solution process, One Plus has demonstrated a commitment to continuous improvement and solution iteration based on user feedback and technical expertise. Updates and patches have been released from time to time to comprehensively address the green lines and prevent it from recurring in future software updates.

Overall, the innovative solutions implemented by One Plus highlighted the brand's commitment to being responsive and cooperative to user concerns.

By fostering community collaboration, exploring workarounds and solutions, and leveraging the help of third-party developers, One Plus has demonstrated flexibility and adaptability to navigate the unexpected challenges of software updates. These innovative approaches not only mitigated the impact of green lines, but also increased user trust and loyalty, highlighting the importance of collaborative problem solving in the smartphone industry.

INSIGHTS GAINED

One Plus's green line upgrade taught the company and the wider smartphone industry several valuable lessons:

1. Rigorous Testing and Quality Assurance: The event highlights the critical importance of rigorous testing and quality assurance in software. Thorough testing of various devices and scenarios can help identify potential issues before they reach end users, reducing the risk of widespread issues such as the green line issue.

2. Transparent Communication: Transparent communication is paramount during software updates, especially when issues arise. One Plus has learned the importance of promptly acknowledging user concerns, providing regular updates on research and solution progress, and being open to any limitations or challenges in troubleshooting.

3. Respond to user feedback in a timely manner: Listening to user feedback and responding quickly are essential to maintaining user trust and satisfaction. One Plus has recognized the need to prioritize user concerns and provide timely responses and solutions to effectively address the issue of green lines.

4. Risk management strategies: Implementing risk management strategies can help prevent and address potential problems before they escalate. By identifying potential risks and addressing them early in the development process, companies can minimize the likelihood of critical issues such as the green line issue affecting end users.

5. Community Collaboration: Harnessing the power of community collaboration can improve problem solving and foster a sense of user ownership and solidarity. One Plus benefited from the collective insight and input of the user community and third-party developers to diagnose and resolve the green line issue.

6. Continuous improvement: The case highlights the importance of continuous improvement in software development processes. One Plus has realized the need to learn from the green lines and implement measures to prevent similar issues

from occurring in future updates, thus demonstrating its commitment to providing a better user experience.

Incorporating these lessons into their practices, One Plus and other smartphone companies can reduce the risk of similar problems in the future and increase the satisfaction and confidence of the users in their products.

CONCLUSION

In conclusion, the Green Line update of One Plus phones provides a compelling case study that highlights the interplay of creativity, challenge, and innovation in the dynamic landscape of the smartphone industry. This update is a microcosm of the complexity associated with software and shows that companies must find a delicate balance between pushing the boundaries of innovation and dealing with unexpected obstacles.

Looking at this update, we gained valuable insights. an understanding of the multifaceted nature of software development and the strategies that companies like One Plus use to address unexpected challenges. From the initial excitement of new features to the emergence of the green lines issue, we've seen firsthand the unpredictability of software updates in the fast-paced world of smartphones.

One of the main points of this analysis is constant vigilance and collaboration. in the face of technical challenges. Companies must remain vigilant to quickly detect and resolve issues and prioritize user satisfaction and brand image. In addition, fostering collaboration within the community and leveraging outside expertise can prove invaluable in effectively diagnosing and solving complex problems.

It is clear from observation that the landscape of the smartphone industry continues to evolve rapidly. As technology evolves and user expectations evolve, businesses must remain adaptable and responsive to emerging challenges. By embracing a culture of continuous improvement and prioritizing user-centered design principles, companies can confidently navigate the complex stages of software development and deliver a smooth and satisfying user experience in an ever-changing technology environment.

Finally, the One Plus phone. is green the refresh of the lines is a testament to the resilience and ingenuity of the smartphone industry. Despite the challenges along the way, companies like One Plus continue to push the boundaries of innovation with their experiences, advancing the industry and shaping the future of mobile technology for generations to come.

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