





Beauty, Cosmetic and Perfumery



Team Composition:

1 Technical lead, 1 Hardware Engineer, 2 Full Stack Engineers



Project Duration:

Ongoing (Support and Maintenance)



Tech Stack:

Xamarin, .Net, Hardware (ESP32 chip), MAUI

Project Overview

Aroma Retail's Wi-Fi-enabled scent machines allow users to customize fragrance experiences remotely. However, an unstable app and unreliable connectivity led to poor customer satisfaction, frequent crashes, and a slow pairing process (40–60 seconds). Techverx took over from the previous vendor, re-architecting the platform, optimizing device connectivity, and implementing CI/CD best practices.

Business Challenges

- Slow & unreliable device pairing, disrupting the user experience
- Frequent app crashes & poor performance, leading to increased support tickets
- Lack of CI/CD & version control, making debugging and deployments inefficient

Solutions Delivered

- Codebase Optimization & Architecture Redesign – Improved stability and scalability
- CI/CD Implementation & Version Control –
 Enabled faster, structured deployments
- Optimized Device Connectivity Reduced pairing time from 40–60 seconds to near-instant
- Enhanced Testing & QA Minimized crashes and improved user satisfaction

Results & Impact

- Device pairing time cut from 60 to near-instant
- Crashes reduced by 70%, improving appreliability
- CI/CD pipeline introduced, enabling faster deployments & smoother debugging
- Support tickets significantly reduced, enhancing customer experience
- Platform now supports new hardware integration & future features

Conclusion

 Techverx successfully transitioned Aroma Retail from an unstable system to a high-performing, scalable platform, ensuring seamless connectivity, a better user experience, and readiness for future innovation.

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