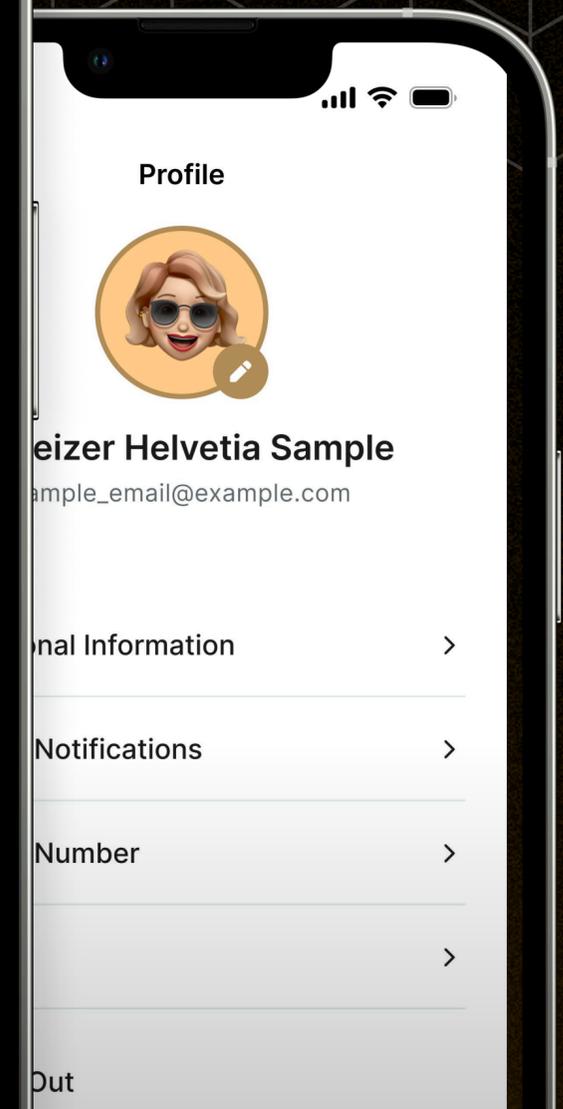
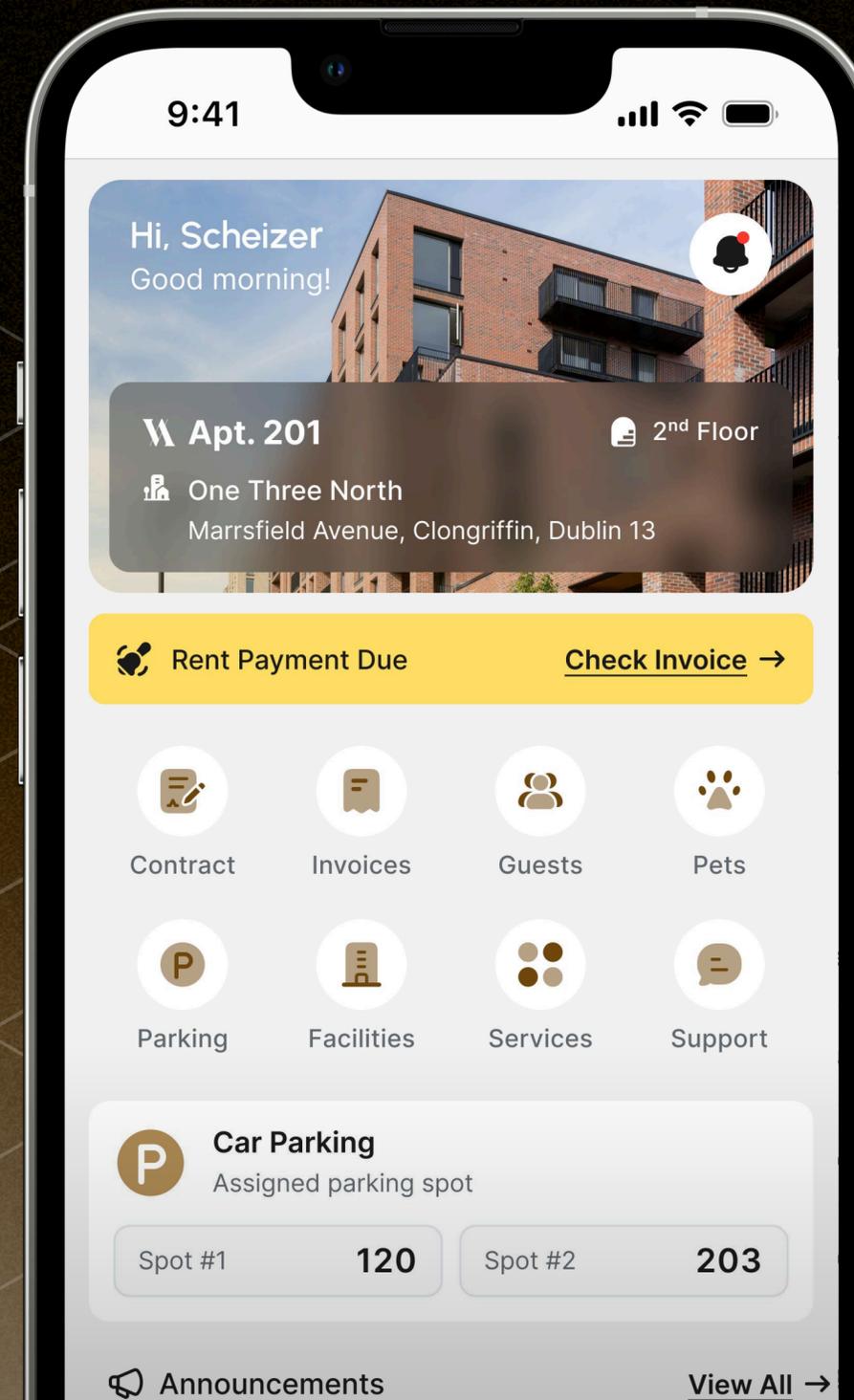


CASE STUDY

Propelling a Seamless Property Management Experience: A Case Study on VestaLiving

Client: Twinlite team



Overview

When Twinlite, a prominent property management company, sought to enhance their existing VestaLiving platform, they partnered with NUS Technology. The collaboration aimed to expand the system's functionality to handle more complex business processes and to revamp the mobile app for a superior user experience. By leveraging a strategic approach to development and a modern tech stack, the NUS team successfully delivered a comprehensive and more intuitive platform that continues to serve as a cornerstone of Twinlite's operations.

- Industry
Property Management
- Market
Ireland
- Frontend
Flutter (Mobile)
- Backend
Ruby on Rails
- Database
Postgres (Render)
- Infrastructure
Render.com
- Integrations
Boldsign, AWS Textract, AWS Rekognition, AWS SES



■ THE CHALLENGE

Expanding a Legacy System

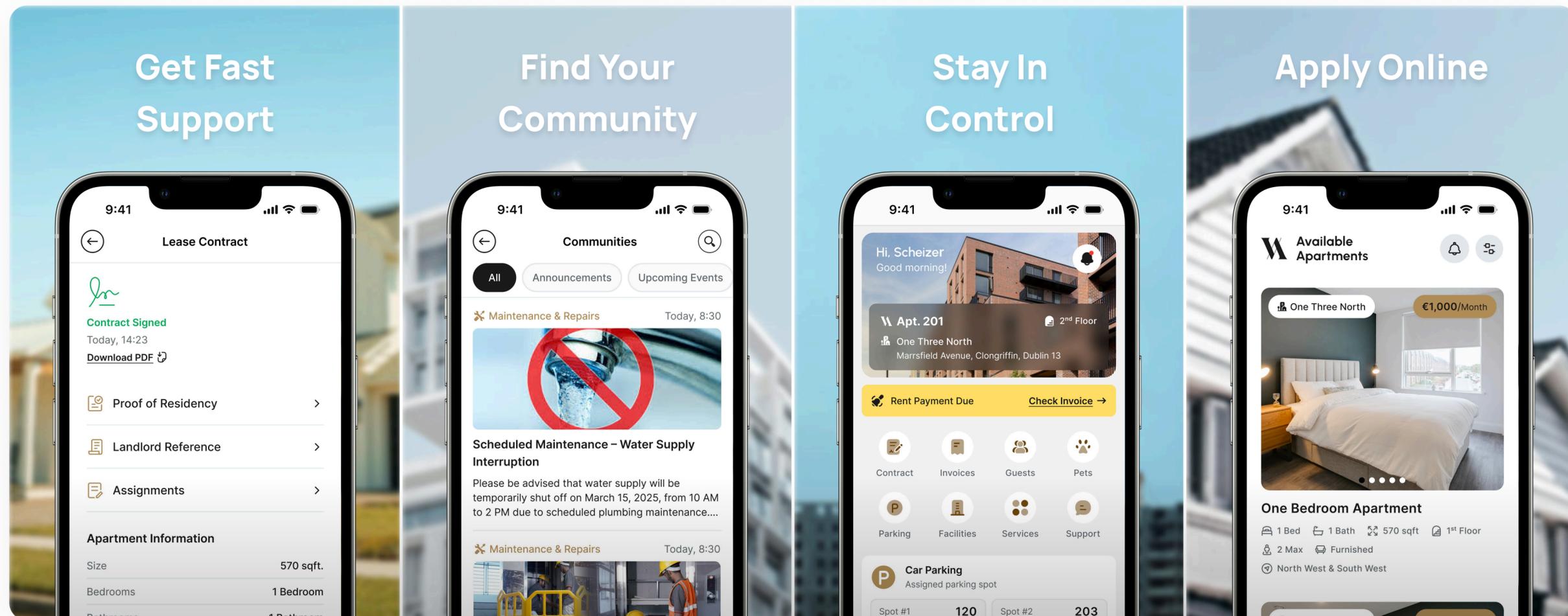
The VestaLiving platform was already in operation, but it faced a critical limitation: it could only manage single-tenant lease contracts. This created a significant disconnect from Twinlite's real-world business needs, which often involved multi-party leases. Additionally, the existing system lacked the flexibility to manage lease takeovers, a common requirement from tenants needing to break or transfer a contract midway. The mobile application, built with separate native codebases for iOS and Android, also presented a challenge, as it was becoming cumbersome to maintain and offered a less-than-optimal user experience. Twinlite needed a robust technical partner to not only integrate complex business logic but also to modernize the entire platform for future growth.



THE SOLUTION

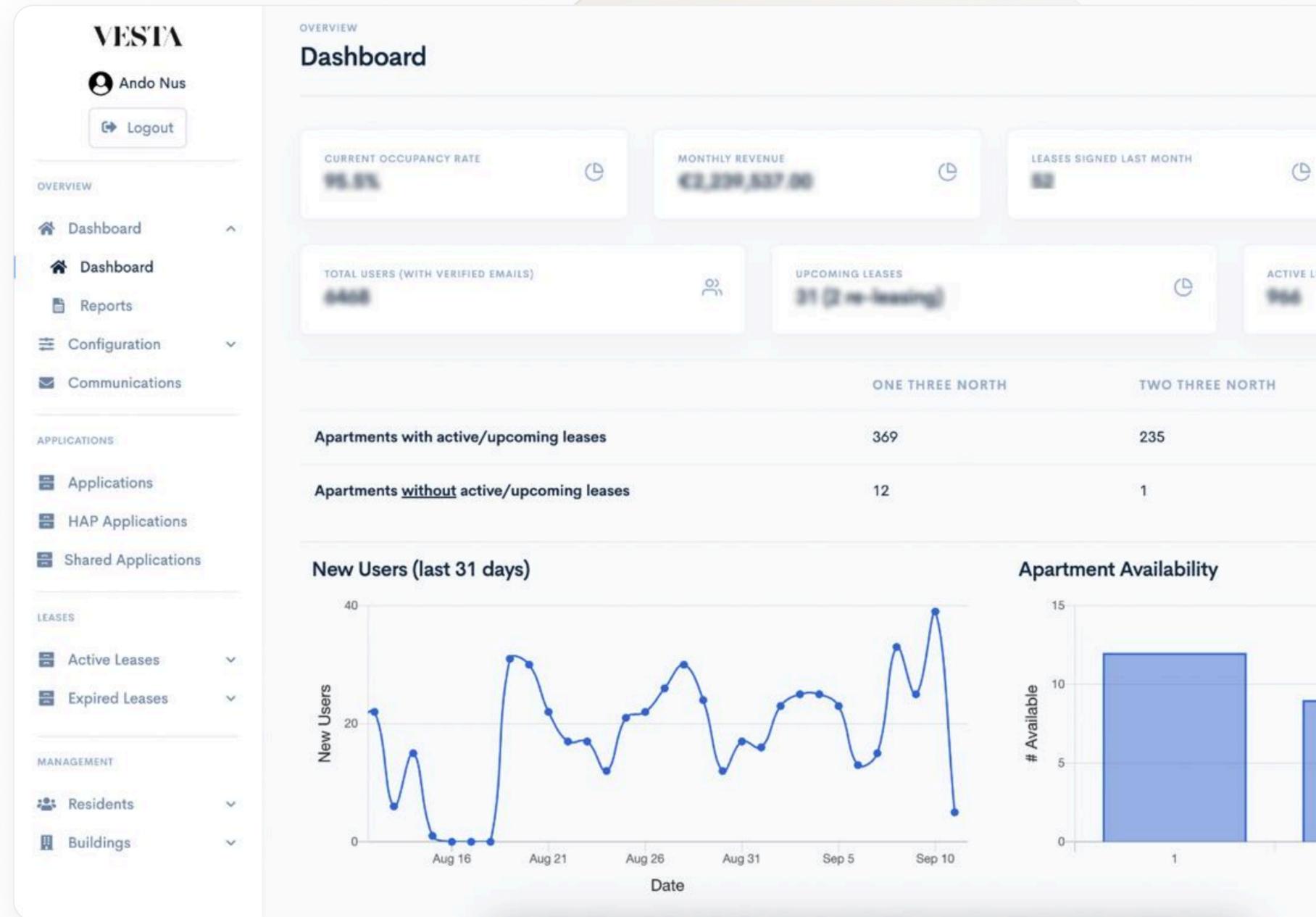
A Strategic and User-Centric Approach

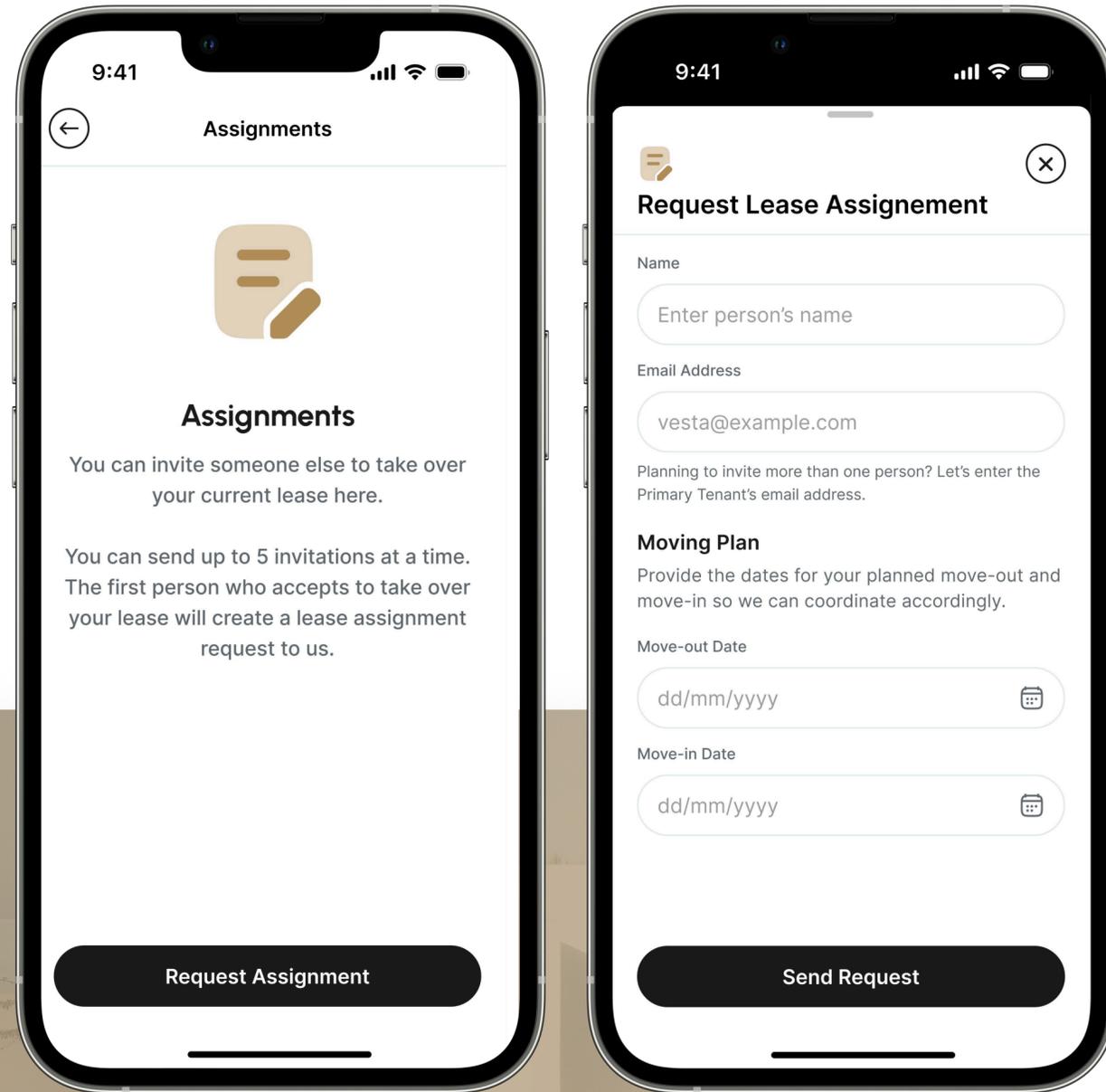
NUS Technology's team took a holistic approach, working closely with Twinlite to understand their specific pain points and long-term vision. The partnership focused on three key areas: expanding the core system's business logic, rebuilding the mobile app, and integrating new third-party services to streamline operations.



Technology Stack & Architecture

The NUS team chose a strategic approach to the technology stack. They expanded the existing property management system's backend, built on Ruby on Rails, to accommodate the new business requirements. This allowed for seamless integration with existing data and infrastructure. For the mobile application, the team opted for a cross-platform solution using Flutter, replacing the outdated native apps for iOS and Android. This decision significantly reduced development and maintenance overhead. The team also integrated several powerful third-party services: Boldsign was used for generating and managing multi-party lease contracts and e-signatures, while AWS Textract and Rekognition were implemented to automate document and facial scanning, accelerating the tenant registration process.





Key Features & Functionality

The development focused on implementing several key features to solve Twinlite's core challenges:

- **Multi-Party Lease Management:** The platform was upgraded to handle complex lease contracts involving multiple tenants, providing a flexible and accurate system that mirrored Twinlite's business model.
- **Lease Takeover Workflow:** A new, sophisticated workflow was developed to allow tenants to find and facilitate a lease takeover. The system now seamlessly handles the transition for both single and multi-party leases.
- **Mobile App as Digital Key:** The new mobile application was integrated with the property's access control system, allowing it to function as a digital key for tenants to access their apartments, with access rights corresponding directly to their lease status and duration.
- **Streamlined Registration Process:** The integration with AWS Textract and Rekognition significantly improved the tenant onboarding experience by automating document and face verification, leading to a faster and more efficient rental process.
- **Quality-of-Life Upgrades:** Numerous smaller improvements were made across both the mobile app and the back-office web application, providing a better overall experience for tenants and the Twinlite management team.

THE RESULT

A Next-Generation Property Management Platform

The successful collaboration between Twinlite and NUS Technology culminated in a significantly enhanced VestaLiving platform. The new system is more robust and flexible, enabling Twinlite to manage their properties more efficiently and offer a superior service to their tenants. While specific metrics are not available, the improvements were qualitatively significant:



Streamlined Operations

Twinlite's team gained a comprehensive platform capable of managing complex business processes that were previously handled manually.



Enhanced User Experience

The revamped mobile application provides a seamless and intuitive experience for tenants, from the initial apartment search to managing their lease and day-to-day living.



Improved Efficiency

The automated contract and identity verification process has made tenant onboarding faster and more efficient, reducing administrative workload.

Conclusion

The partnership between Twinlite and NUS Technology has been, and continues to be, a great success. Both parties share a deep understanding of each other's needs and respond promptly, fostering a strong collaborative environment. The VestaLiving platform is now a comprehensive property management system that meets the demands of a modern rental market. The continued partnership ensures that VestaLiving will remain a powerful and evolving platform, with the NUS team providing ongoing development and maintenance to support Twinlite's growth.

Links



Website
[Visit the Website ↗](#)



iOS
[Download on the App Store ↗](#)



Android
[Get it on Google Play ↗](#)

■ TESTIMONIAL

What Our Client Says



Rick Larkin
Executive Director

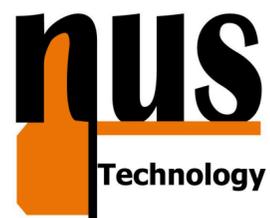
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A Seamless Collaboration

Working with the NUS Technology team has been an exceptional experience. From the very beginning, their professionalism, clear communication, and proactive approach stood out. They took the time to truly understand our vision and consistently delivered high-quality work, always on schedule. Their dedication and collaborative spirit made a complex project feel seamless. We're incredibly pleased with the partnership and the results they've delivered.

THANK YOU

For Reading Our Case Study



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