

Innovative set of features for real estate

Our client is revolutionizing the real estate renovation landscape through an innovative, technology-driven platform designed to enhance the renovation experience. This cutting-edge platform simplifies project management by offering tools for budget tracking, timeline visualization, worker search, and work progress monitoring, among others. By integrating these features, our client aims to streamline the renovation process, making it more efficient and user-friendly for all parties involved.

The challenge

Business

The company has enlisted our team to spearhead the creation of an innovative set of features designed specifically for Property Managers. These new functionalities have a primary objective: to streamline project management processes. They encompass a range of essential tools, such as budget monitoring, visualizing timelines, and uploading photos to enhance project documentation.

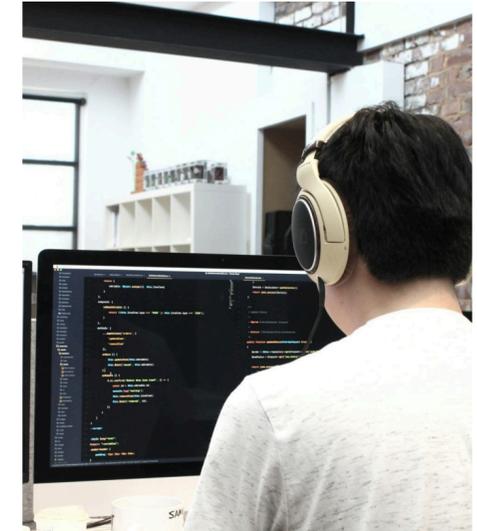


Furthermore, this comprehensive toolkit will empower Property Managers in the discovery, recruitment, and assignment of specialized professionals, making it more efficient and convenient to access the right expertise for their projects.

Notably, this new functionality will be delivered in the form of a web application. This web app is designed to seamlessly integrate with the company's existing suite of applications, ensuring a cohesive and user-friendly experience for property management professionals.

Technical

In response to evolving business needs and technological advancements, our team has taken on the pivotal task of integrating new applications with existing ones. By merging the capabilities of these applications, we anticipate streamlining processes, improving data flow, and ultimately providing an enhanced user experience for our stakeholders.



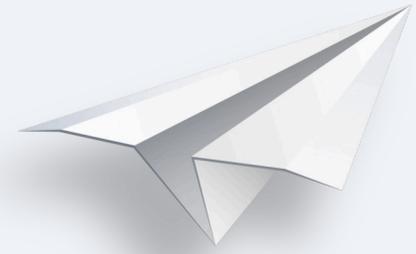
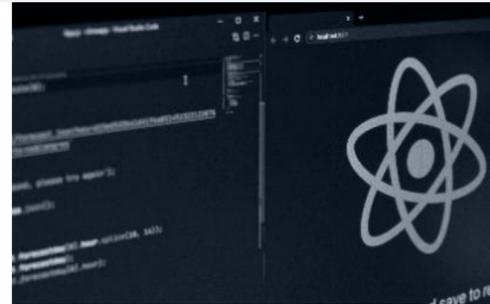
We also recognized the importance of scalability and flexibility in our system architecture. To address this, we've initiated a project to split the monolithic application into smaller, more manageable services. By breaking down the application into modular components, we can enhance agility, reduce dependencies, and accelerate the development lifecycle, ensuring a robust and adaptable system.

In addition, we've introduced a specialized Java solution for critical and performance-sensitive segments of our infrastructure. By leveraging a new Java solution, we anticipate achieving remarkable performance improvements, ultimately translating into a superior and user experience across the board.

Solution

1 New web application using React

SiliconMint is currently developing a new web application using React.



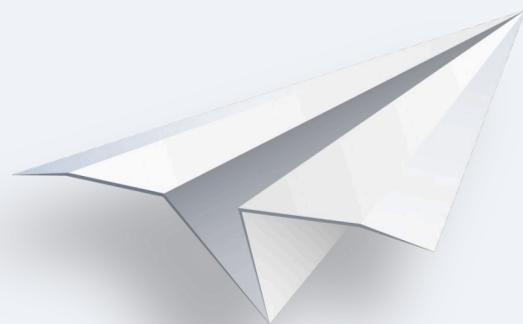
2 Configuring CI/CD

SiliconMint is actively engaged in configuring CI/CD (Continuous Integration/Continuous Deployment) pipelines. This automated setup streamlines integration, testing, and deployment, enabling faster and more reliable updates to our projects. By optimizing our development workflow, we aim to enhance efficiency and ensure seamless delivery of our applications.



3 Extracting services from existing monolithic application

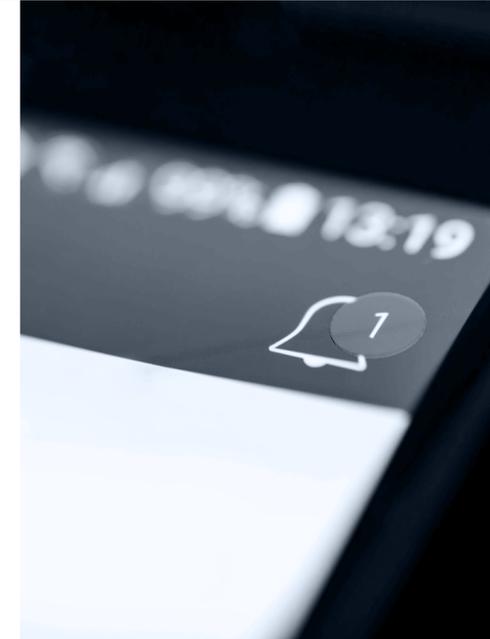
SiliconMint's ongoing initiative involves extracting services from a monolithic application. This process is crucial for enhancing scalability, maintainability, and agility. By breaking down the monolith into smaller, independent services, we're enabling efficient development, updates, and scaling of each component, ultimately improving the overall performance and flexibility of the application.



Solution

4 Design and implementation of Notification service

We've recently completed the design and implementation of a Notification service—a key component of our system. This service is meticulously crafted to facilitate effective communication with users, ensuring timely and relevant notifications. The design prioritizes efficiency, while the implementation guarantees smooth delivery of important updates and messages, enhancing overall user engagement and experience.



5 Creating services using Java solution

We have created essential services utilizing the Java programming language, leveraging its robust capabilities to meet our project requirements effectively





Processes in the company

We smoothly integrated in company processes. They provided us Product Owner, we built a process inside our team and were responsible for new products. It was Scrum due to regular feedback from end-users.

We integrated into the company's processes, collaborating closely with their team. They assigned a Product Owner to guide us, and within our team, we established a structured process to drive the development of new products. Embracing the Scrum methodology, we emphasized regular feedback from end-users, enabling iterative improvements and ensuring that the products we created resonated effectively with the target audience. This iterative approach kept us aligned with evolving user needs and allowed us to deliver successful, user-centric solutions.

Technologies



Hasura



Java



React
React Native



AWS
(EKS, CodePipeline, etc.)



Apollo Client

Team



Scrum team

for development of a new product
for Property Managers



Scrum team

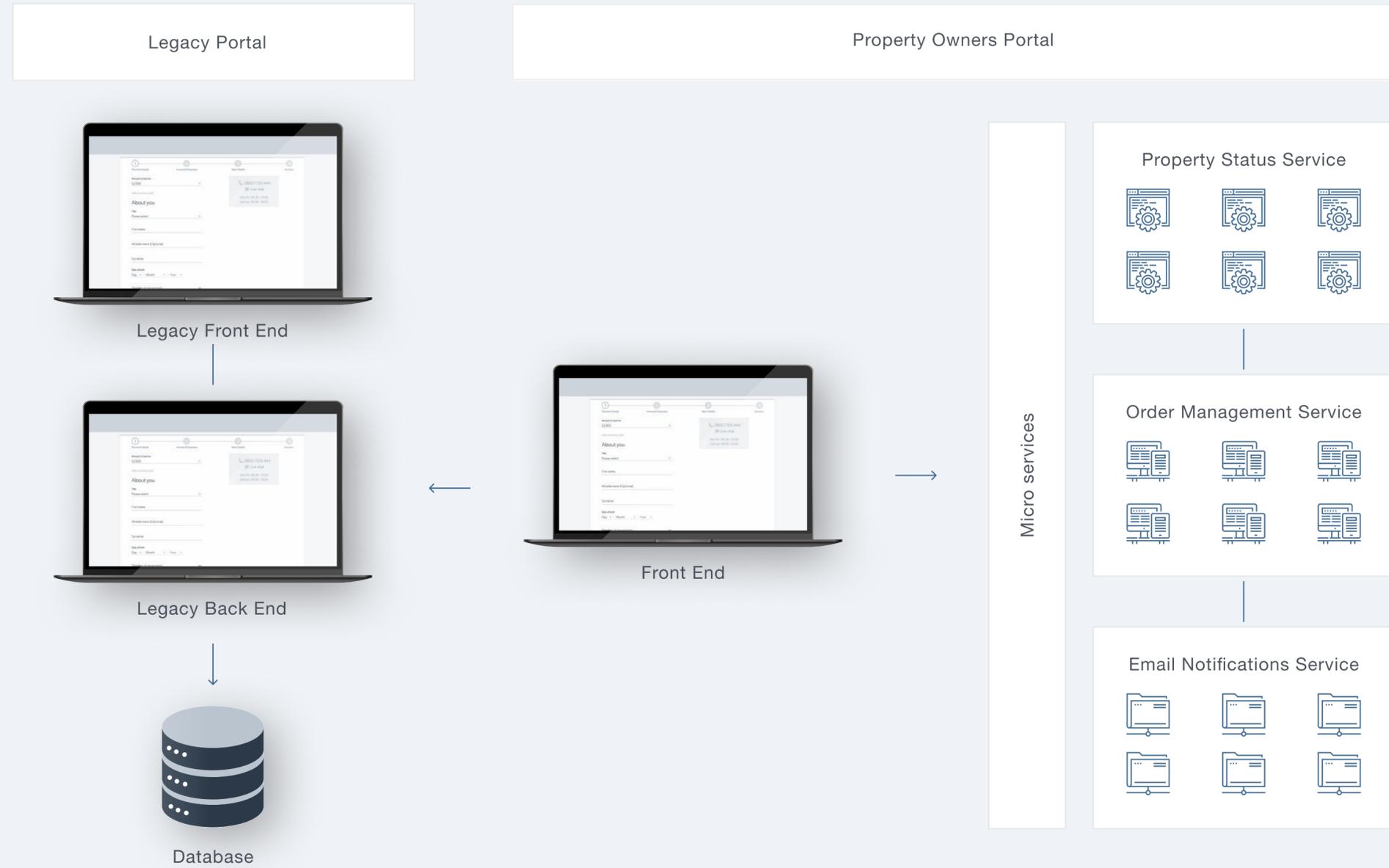
to create new
Notification Service



Kanban team

to work extracting new services
from monolith

Architecture



Results

The partnership between our team and the client led to substantial improvements in the partner's solution.

- We crafted a range of cutting-edge features designed specifically for Property Managers, such as budget tracking and efficient photo uploads, even with unstable internet connections.
- The integration of new apps with current systems boosted the user experience. Moving from a single, large application to a more flexible, modular structure increased scalability and responsiveness.
- The adoption of a specialized Java solution resulted in significant performance boosts. Smooth integration into the company's workflow and commitment to Scrum methodology guaranteed that we kept pace with changing user needs.