



OPCITO TECHNOLOGIES

UI transformation from AngularJS to React

About The Customer

The customer is a specialized provider of banking solutions with deep-rooted expertise in the industry. They possess a strong understanding of the unique needs and challenges faced by financial institutions. Recognizing the rapidly evolving technological landscape and the increasing need for banks to adapt, they leverage the latest technologies to equip their clients for the future. This includes embracing innovation by integrating AI and ML into their solutions to enhance efficiency, improve customer experiences, and gain a competitive edge, all while prioritizing compliance.

Business Challenge

The application's user interface (UI) was originally built with AngularJS, which became increasingly difficult to maintain and scale. Since AngularJS was nearing the end of community support, its future maintainability was uncertain. The complex workflow also slowed down processing, leading to a frustrating user experience. Developers struggled to debug and add new features due to lack of modern tooling. To address these issues and better support critical operations, customers and stakeholders demanded a more modern and efficient UI.

How Opcito Helped

Opcito's experts conducted a thorough inspection of the existing UI and identified key areas for improvement.

- **Comprehensive UI audit:** Conducted a detailed audit of the existing UI to determine reusable components, areas requiring redesign, technical dependencies, and created a roadmap for the modernization effort.
- **React-based architecture:** Designed the new UI using React's component-based architecture for enhanced modularity and reusability.
- **React hooks implementation:** Leveraged React Hooks for efficient state management and the implementation of functional programming patterns.
- **TailwindCSS integration:** Utilized TailwindCSS, a modern UI library, to accelerate development and ensure consistent styling across the application.
- **Redux for global state management:** Implemented Redux for robust global state management to handle complex workflows and maintain data consistency.



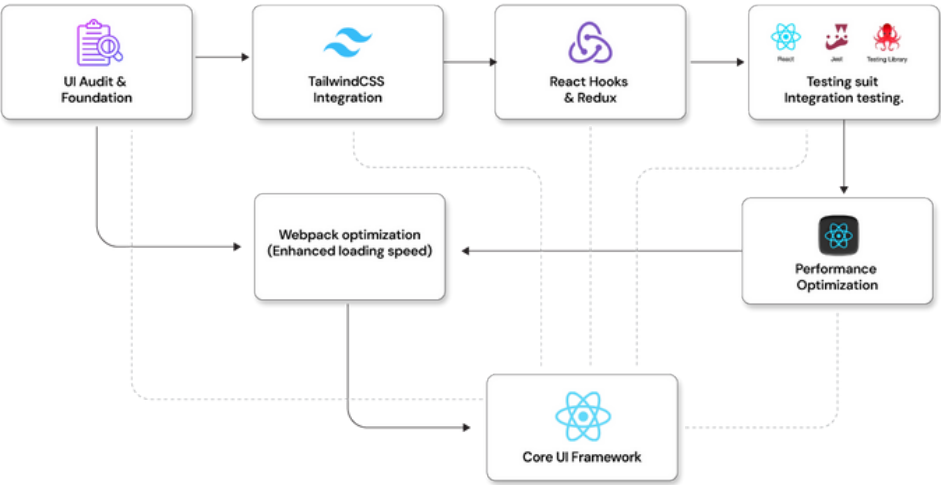
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How Opcito Helped

- **Comprehensive testing suite:** Implemented unit and integration tests using Jest and React Testing Library to ensure the quality and reliability of the UI components.
- **Performance optimization:** Optimized performance through techniques such as lazy loading, memoization (React.memo), and code-splitting to minimize initial load times and improve overall user experience.
- **Asset size minimization:** Minimized asset sizes using advanced Webpack optimization techniques to further enhance loading speeds and overall application performance.



Technologies, Tools, and Platforms used

- REACT.JS
- TAILWINDCSS
- REDUX
- JEST
- REACT TESTING LIBRARY
- REACT.MEMO
- WEBPACK

Benefits

REDUCED MAINTENANCE COSTS	Using React cut long-term maintenance costs by boosting developer efficiency and minimizing reliance on specialized skills.
ENHANCED SCALABILITY	React's modular design allowed the app to scale easily with growing traffic and data needs.
IMPROVED PERFORMANCE	Lazy loading and code-splitting sped up load times and delivered a smoother user experience.
INCREASED PRODUCTIVITY	React's modern tools and workflows accelerated development and reduced time-to-market.

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



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