

Modernizing a Legacy Front-End Application to ReactJS

Business Challenges

A leading enterprise's **Direct-to-Consumer (D2C)** and **Online Self-Service** portals were built on a legacy front-end codebase over 15 years old. The interface relied on outdated technologies such as legacy HTML, CSS, and obsolete scripting patterns. As a result, the application faced several critical challenges:

01

Poor maintainability and scalability

02

Integration difficulties with modern APIs and frameworks

03

Inconsistent user experience across devices and browsers

04

Security vulnerabilities due to outdated code

05

High onboarding effort for new developers unfamiliar with legacy technologies

The business required a modern, **responsive front-end solution** that preserved the existing look and feel to ensure continuity and minimize user disruption—**without impacting back-end systems**.

Saksoft's Solution

A **cross-functional team** of front-end and back-end engineers was assembled to modernize the application by migrating the legacy interface to **ReactJS**, while enhancing back-end service compatibility and performance.



01

Rebuilt the UI using ReactJS, mirroring the original design to retain user familiarity

02

Refactored and integrated web services for seamless, real-time data interaction

03

Aligned front-end and back-end teams to ensure synchronized development and smooth service orchestration

04

Executed smooth deployment through controlled CI/CD pipelines and version-managed Git release branches

Business Outcomes

01

Improved Maintainability

React’s modular architecture simplifies enhancements and bug fixes

02

Accelerated Development

Reusable components enable faster rollout of new features

03

Strengthened Security

All legacy vulnerabilities were remediated via industry-standard tools

04

Scalability and Productivity

The new architecture Reduced ramp-up time for developers and supports future growth and performance optimization

05

Back-End Modernization

Refactored services improved performance, flexibility, and service reliability

06

Customer Impact

With over 10 million users, improved UX is projected to drive increased engagement and revenue

Technology Accelerators

Front-End:

ReactJS, HTML5, CSS3, NPM

Back-End

Java 11, EJB, REST/SOAP Web Services, Wildfly 30

Databases

PostgreSQL, Oracle

Security, DevOps & QA:

SonarQube, Checkmarx
SIT & UAT Testing Environments

Collaboration & Deployment:

Git (Release Branching, Code Reviews)
CI/CD Pipelines (Jenkins, JCM)

Future-Ready Starts Today

Whether you're struggling with performance, scalability, or developer ramp-up—Saksoft helps you modernize with confidence.

Contact us to explore a tailored modernization strategy for your business

