Case Study

Techverx

BMO

8th largest bank in North America by assets

Team Composition:
2 Senior Engineers, 1 Tech Lead, 1 Project Manager, 1 Mobile Engineer, 1 QA Engineer

Project Duration:
6 months (fixed scope)

Tech Stack:
Angular JS, .NET

Project Overview

Bank of Montreal (BMO), the 8th largest bank in North America by assets, serves over 12 million customers with a wide range of financial services—banking, investment, insurance, and more. Known for its digital innovation, BMO's app is rated #1 in Canada for digital money management. However, its core banking network operated on a legacy Silverlite framework, raising major concerns over security, browser compatibility, and scalability—especially with a Google-imposed cutoff for legacy-based applications looming. BMO partnered with Techverx to swiftly modernize its infrastructure, safeguard operations, and preserve its user-centric reputation.

Business Challenges

- **Functional Debt:** Outdated architecture caused a poor UI, reduced user engagement, and complex navigation.
- **Legacy Limitations:** Silverlite couldn't fully utilize protocols, restrict APIs, and lacked plugin/browser support.
- **Critical Deadline:** Google's deprecation of legacy support posed an operational risk, pushing for urgent migration.

Solutions Delivered

- **Reverse Engineering:** Analyzed legacy workflows to align modern tech with business needs.
- **Angular Migration:** Upgraded the entire system to a single Angular framework for streamlined performance.
- **Protocol Optimization:** Enabled cross-browser compatibility and robust plugin support with modern functional protocols.

Results & Impact

- Enhanced Performance & UX
- Futureproof Architecture
- Reusable & Maintainable Codebase
- Stronger Security and Compatibility

Conclusion

- **Techverx eliminated key risks in BMO's legacy system and enabled long-term digital growth through a successful Angular migration.** This solidified BMO's digital leadership and highlighted Techverx's precision in solving complex fintech challenges.