

PASSWORDLESS MFA SYSTEM: CORE PRODUCT DEVELOPMENT

Datasheet

PROVIDING SOLUTIONS FOR TOMORROW - SINCE 1993



About the project

Technologies

- Angular
- Kotlin
- Swift
- SQL
- NET

- REST API
- SignalR
- TLS
- MS SQL
- MySql

- PostgreSQL
- SQLite
- Redis

















Project size

- 1 Technical Coordinator
- 4 1 Project Manager
- 1 Business Analyst
- 1 Software Architect
- 6 Software Engineers
- 4 1 QA Engineer
- 1 Marketing Specialist
- 4 1 Graphic Designer
- 4 1 Technical Writer
- 4 1 Technical Assistant

Duration



7 months From February 2019 – March 2020

Platforms

- iOS
- Android
- Linux
- Windows
- macOS



Result

The developed app allows for 100% secure passwordless authentication on the client's web portal through mobile phones and desktop devices. It is the first highly secure alternative to password-based authentication designed with the end-user in mind. The expanded set of implemented features allows for seamless and fail-safe usage within enterprise environment.

Scope of work

- Set up user login verification and biometrics on the authentication server;
- Set up generation and providing of one-time password in form of a combination of a picture and a set of alphanumeric characters both to user;
- Add a RADIUS-protocol support to set up connections between network equipment and servers;
- Implement Full-duplex authentication method using PKI and OTP;
- Implement Windows client application that repeats the functionality of a mobile application, including receiving push notifications;
- Support for YubiKey protection for additional protection by confirming the user with a token generated by a physical key;
- Integrate Windows unlocks;
- Create an external API for the possibility of flexible integration with external tools, and automation of user registration;
- Implement the ability to integrate NoPass within the RDP gateway;
- Improve Single Device Experience for logging in to websites from mobile apps without switching windows;
- Perform regression testing using an automated test system within a test farm;

Activities

- Architecting a state-of-the-art authentication solution
- Implementing innovative security measures
- GUI design and development
- GUI multilingual support
- Use cases creation
- O Cl and CD setup

- Publishing in clouds
- User experience testing
- Functional and acceptance testing
- Automation testing
- Regression testing
- Smoke testing



Project objective

Develop a top-secure passwordless Multi-Factor Authentication solution that has no analogs in the world without clear requirements. Provide the high availability of its usage within corporate environments with lots of connected devices.

