



Biometric Fingerprint Sensors

For Communication & Information Devices



Situation

Validity Inc. manufactures fingerprint sensors and has proprietary SDK for accessing various features and data of the sensor. Validity wanted an application which would demonstrate all the capabilities of the fingerprint sensor and SDK.

Validity had already chosen Aftek for developing and porting various drivers, SDK modules and applications in the SDK Suite for various desktop and embedded platforms. Validity approached Aftek for developing Java based application which would run on all popular Operating Systems.

Expected Feature Set

- Enrollment wizard is used to enroll new users, re-enroll existing users
- Verify fingerprint swipe for a selected fingerprint
- Identify an enrolled user using swiped fingerprint
- Practice session containing swipe unlimited times

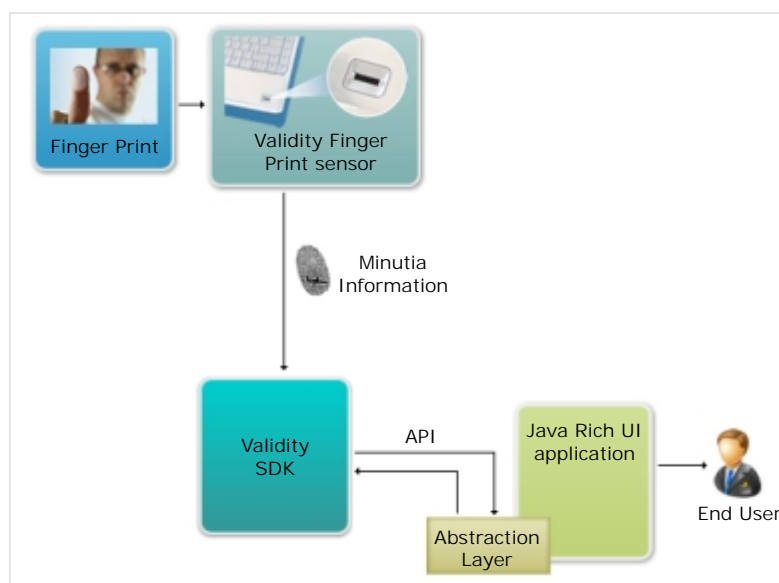
Solution

Aftek built a Java based application with features of enrollment, verification etc. Swing controls were used with custom formatting to make the application look elegant and yet provide expected functionality.

Static screens were prepared to give preview of how the application will look like. Incremental approach was followed to build features of the application.

Benefits to the client

- Building Java application avoided porting effort on each Operating System.
- 100% off-shore execution made development effort cost effective.



Aftek's value-add

- Recommended and delivered JNI based abstraction layer to hide platform specific API differences.
- Zero time to understand requirements since the domain was already known.

Technology

- Java (Swing)
- JNI
- C, C++

